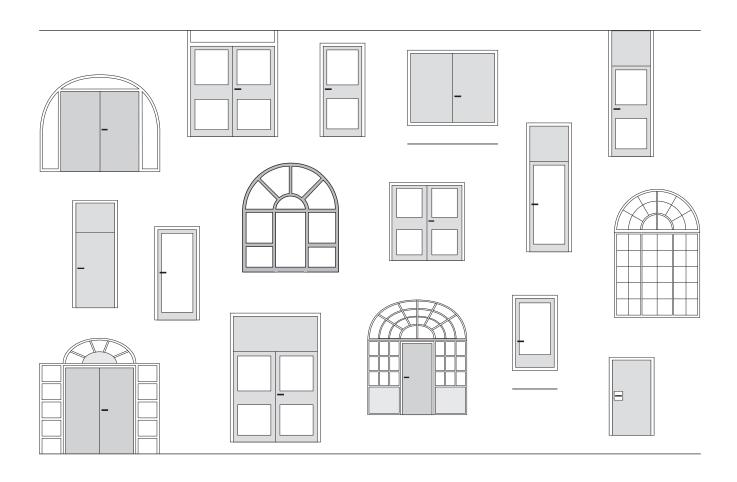
Manual

Wooden doors for the highest demands



Special Doors

Compendium 2012



Schörghuber Spezialtüren KG

Neuhaus 3, 84539 Ampfing P.O. Box 1323, 84536 Ampfing Phone (08636) 503-0 Telefax (08636) 503-820 http://www.schoerghuber.de info@schoerghuber.de



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Special Doors Compendium 2012

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Due to necessary technical developments and innovations in the future, construction plans are subject to alterations. Despite the best care and attention we can not grant any guarantee as to the validity of content or printing. Therefore Schörghuber does not incur any liabilities.

In case of project-related special constructions and fittings, which are not part of our official technical approval, an approval for the individual case can be requested.

Indicated in the index with i are extensive product-related technical details and information are enclosed in the appendix of this compendium.

Schörghuber Spezialtüren KG

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Schörghuber

Door sets 1-leaf door	Door sets 2-leaf door	Brief description
1 N		42-mm-door for basic requirements
3 N	4 N	Universal use
3 NT	• • •	Fire-Protection-Door with wet room qualities
	14 N	Increased Sound-Insulation for universal use
16 N		Extreme dimensions and functions
16 N Super si	ize	Extreme dimensions and optional flap door
5 N	_	Highly sound-deadening Rw,P = 37 dB, 42 dB or 45 dB
50-1	50-2	Extremely sound-deadening Rw,P = 48 dB or 50 dB
35 N		External use (for not directly weather exposed locations)
10 N	20 N	Greatest possible dimensions and increased Sound-Insulation
25 N	27 N	Solid wood framed doors
25 N Slimline	27 N Slimline	Glass doors T 30
21 N		Increased Fire-Protection (T 60)
3-60	4-60	Increased Fire-Protection (T 60) for universal use
5-60	6-60	Increased Fire-Protection (T 60) and highly sound-deadening
3-90		Extreme Fire-Protection (T 90) for basic use
8 N	24 N	Extreme Fire-Protection (T 90) for greatest possible dimensions
80-1	80-2	Extreme Fire-Protection and highly sound-deadening Rw,P = 42 dB
91 N	92 N	Extreme Fire-Protection solid wood framed door (T 90)
91 N Slimline	92 N Slimline	Glass doors T 90
120-1		Extreme Fire-Protection (T 120)
17 N		Extremely sound-deadening Rw,P = 48 dB
	4 N PT	Fire-Protection swing door (T 30)
	26 N GLT	Reversed Fire-Protection-Door (T 30)
	6 N GLT	Reversed Fire-Protection-Door with increased Sound-Insulation
	27 N GLT	Reversed Fire-Protection-Door as solid wood framed door
3 N ST	4 N ST	Fire-Protection sliding door (T 30), with either mechanical or
		automatic operation
16 N Super si	ize	Fire-Protection sliding door T 30 , with mechanical operation
		with extreme dimensions and optional flap door
Glazing		
		Fixed glazing (G 30, F 30, RS)
		Fixed glazing (F 30, RS) for exterior use
		Fixed glazing with extreme Fire-Protection (F 90)
		Openable Fire-Protection-Glazing (F 30)
25 V DA		Openable Fire-Protection-Glazing (F 30, RS)
		for exterior use

Page 6-148 Fire-Protection



Page 149 – 236 Smoke-Protection



Page 237 – 310 **Sound-Insulation**



Page 311 – 356 Burglar-Protection



Page 357 – 388 Radiation-Protection



Page 389 – 394 Bullet-Resistant



Page 395 – 404 **Wet Room**



Page 405 – 456 Solid Core





Page 457 –1232 **Technical Information**





Fire-Protection-Doors Fire-Protection-Glazings

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T 30	2-leaf door	4 N 4 N PT 14 N 26 N 26 N GLT 6 N 6 N GLT 20 N 50-2 27 N 27 N Slimline 27 N GLT 4 N ST	56 58 60 62 64 66 68 70 72 74 76 78
	2-leaf door, with top panel Fixed side panels	4 N 26 N 26 N GLT 6 N 6 N GLT 20 N 27 N 27 N GLT	82 84 86 88 90 92 94 96 98







Fire-Protection-Doors Fire-Protection-Glazings

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	Openable glazing		
	(exterior use)	25 V-DA	144
F 90	Fixed glazing	90 V	146





Preventive fire-protection

According to DIN 4102

Regulations for Fire-Protection-Doors and -Glazings

T 30

Official technical approval

In Germany Fire-Protection-Doors and -Glazings require an official technical approval as applicability verification. The basis for an official technical approval are imperviousness to smoke testing according to DIN 4102 for fire behaviour and continuous-operational testing at certified facilities. Fire-Protection-Doors form a unit of frame, door leaf and the fittings necessary for their functioning.

The manufacturer has to confirm with a certification of conformity that the production of the Fire-Protection-Doors is monitored by an external, independent and accredited body in terms of complying with the regulations of the official technical approval. For glazings this is substituted by the manufacturers declaration of conformity.

With the attachment of a marking label on the fire protection closure (door, glazing) and the unrequested presentation of the official technical approval the fulfillment of these requirements has to be demonstrated at the time of delivery.

According to their ability to stop the fire from passing through, which is measured in minutes, fire-resistant doors and shutters are divided into following fire resistance classes:

Doors:	<u>Glazings:</u>
T 30 (Fire-Protection)	G 30 (Fire-Protection)
T 60 (Increased Fire-Protection	on) F 30 (Fire-Protection)
T 90 (Extreme Fire-Protection) F 90 (Extreme Fire-Protection)
T 120 (Extreme Fire-Protection	n)

CE label

With the introduction of product standards for Fire-Protection-Doors (EN 16034, publication expected at the end of 2011), the applicability verification is possible through the marking with the EU wide recognised "CE" conformity label. This marking will be made compulsory after a not yet defined transition period. Basis for the granting of the CE conformity certification, which allows the respective labeling, are fire behaviour testing according to DIN EN 14600 respectively DIN EN 1634-1 and testing according to DIN EN 1191 concerning the durability of the self-closing function at certified facilities. Fire-Protection-Doors form a unit of frame, door leaf and the fittings necessary for their functioning.

The manufacturer has to confirm with a CE conformity certificate that the production of the fire protection closure is monitored by an external, independent and accredited certification authority in terms of complying with the regulations of the product norm.

With the attachment of the "CE" conformity label and the unrequested presentation of the CE conformity certification the fulfillment of these requirements has to be demonstrated at the time of delivery.

The classification is according to DIN EN 13501-2 with the following description:

E internal space closure

I_{1/2} thermal insulation (for Fire-Protection-Doors with index 1 or 2)

C durability of the self-closing function (C0 – C5)

According to their ability to stop the fire from passing through, which is measured in minutes, fire protection closures in Germany are divided into following fire resistance classes:



Doors:Glazings:El230-C5(Fire-Protection)E30 (Fire-Protection)El260-C5(Increased Fire-Protection)El30 (Fire-Protection)El290-C5(Extreme Fire-Protection)El90 (Increased Fire-Protection)

El₂120-C5 (Extreme Fire-Protection)



Configuration options

T 30

T 30 Solid Door

1-leaf door









2-leaf door



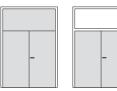






2-leaf door, with top panel

1-leaf door, with top panel







2-leaf door, reversed, with top



T 30 Door with vision panel

1-leaf door







2-leaf door







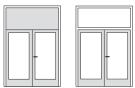
2-leaf door, reversed











2-leaf door, reversed, with top panel







Configuration options

T 30

T 30 Solid wood framed door

1-leaf door



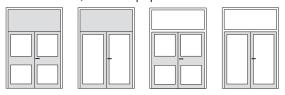
1-leaf door, with top panel



2-leaf door



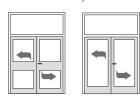
2-leaf door, with top panel



2-leaf door, reversed

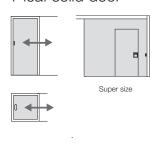


2-leaf door, reversed, with top panel

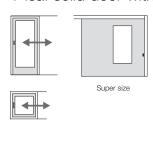


T 30 Sliding door

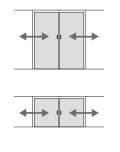
1-leaf solid door



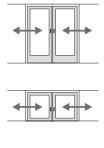
1-leaf solid door with vision panel



2-leaf solid door



2-leaf solid door with vision panel







Configuration options

T 30

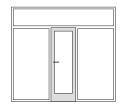
T 30 Fixed side panels

In combination with T 30-1 Fire-Protection-Door







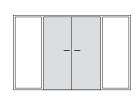




T 30 Fixed side panels

In combination with T 30-2 Fire-Protection-Door









T 60 Solid door

1-leaf door



T 60 Door with vision panel

1-leaf door



T 60 Solid door

2-leaf door



160 Door with vision panel

2-leaf door







Configuration options

T 30

T 90 Solid door

1-leaf door



2-leaf door

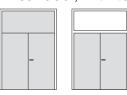




1-leaf door, with top panel



2-leaf door, with top panel



T 90 Door with vision panel

1-leaf door





2-leaf door



2-leaf door, with top panel

1-leaf door, with top panel









T 120 Solid door

1-leaf door



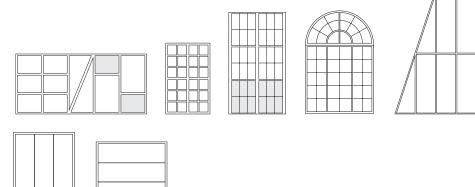


Fire-Protection-Glazing

Configuration options

T 30

G 30 / F 30 Fixed glazing



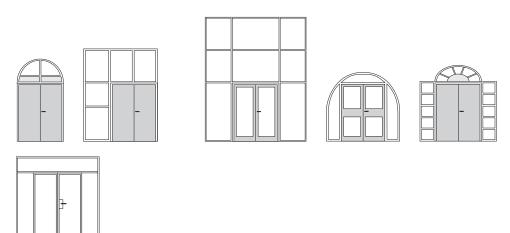
F 30 Fixed glazing

In combination with T 30-1 Fire-Protection-Door



F 30 Fixed glazing

In combination with T 30-2 Fire-Protection-Door







Fire-Protection-Glazings Configuration options

T 30

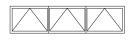
F 30 Openable glazing

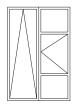






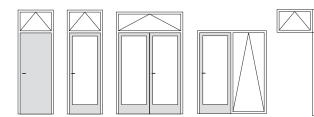






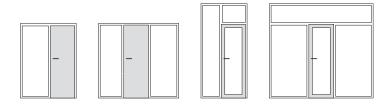
F 30 Openable glazing

In combination with T 30-1 or T 30-2 Fire-Protection-Door



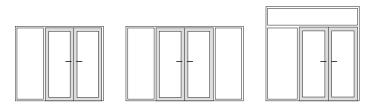
1 90 Fixed side panels

In combination with T 90-1 Fire-Protection-Door



190 Fixed side panels

In combination with T 90-2 Fire-Protection-Door









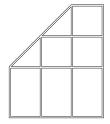
Fire-Protection-Glazing

Configuration options

F 90 Fixed glazing













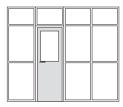
F 90 Fixed glazing

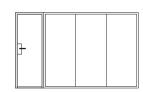
In combination with T 90-1 Fire-Protection-Door







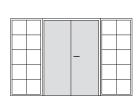


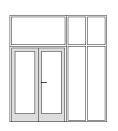


F 90 Fixed glazing

In combination with T 90-2 Fire-Protection-Door















Tender specifications

El₂30-C5

Information

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection-Door Model 1.00 / 1.10

Approval

● Approval No. DIBt. Z-6.20-2050

(T.30)

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB
- O Burglar-Protection WK 2

BR-width x BR-height Throat opening

- O Solid wall (M) O Gasblock concrete wall (M) OGypsum plasterboard wall
- OWooden elements ≥ F 60B
- O Steel elements ≥ F 60A

Steel frames

Standard rebate, galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black,

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm - Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O SEZ-Wooden frame, architrave 35/35 mm
- OSEZ-Wooden frame, architrave 50/50 mm

Door leaf

Thickness of door leaf about 42 mm

- Rebated (F)Unrebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

● Pyrostop 30-10 (clear glass)

Configuration

- **O**Standard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350 mm

- Glazing beads
 OSolid wood veneered
- OSolid wood
- OAluminium natur/anodized (porthole)

Surfaces

Door leaf

- OVeneer
- Transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm On site coating/undercoating foil

Hinges

Steel frames

2-part hinges, 2 pieces, 100 mm, hinge base 2D adjustable

Rebated Unrebated ● V8037 WF

● V8087 WF OVN8938/100 O VN8948/100

Three-roll-hinges, 2 pieces, 160 mm, on request hinge hase 3D adjustable

Rebated

Unrebated

- VN8938/160 VN8948/160 OVS8939/160 O VS8949/160 OVSX7939/16 0 O VSX7729/160
- Ovx7939/160 O VX7729/160 O BSW060-22 VX OBSW060-21 VX OHEWI B8107.160 VX O HEWI B9107.160 VX
- Additional 3rd hinge O Additional 3rd hinge

Wooden frames Standard-Wooden frame

SEZ-Wooden frame

2-part hinges, 2 pieces, 100 mm, hinge base V3604

Rebated Unrebated V4437 WF V4487 WF

Standard-Wooden frame

Three-roll-hinges, 2 pieces, 160 mm, on request hinge

O BSW060-22 VX

O HEWI B9107,160 VX

base 3D adjustable (VHX) Rebated Unrebated

● VSX7939/160

- VSX 7729/160 O VX7729/160 O VX7729/120 Ovx7939/160 Ovx7939/120 Ovx7939/100
- OBSW060-21 VX OHEWI B8107.160 VX

Hinge surface

- Galvanised
- Matt nickel-plated
- Stainless steel
- Plastic material

Locks

- PZ-lock according to DIN 18250, backset 65 mm
- OPanic lock, fixed knob on one side OPanic lock, lever-lever

Forend surface

- Galvanised
- Stainless steel

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette

OKnob-lever-set, fixed knob on one side

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closers according to DIN EN 1154

TS FORM

OGEZE TS 4000 / DORMA TS 73 ODORMA TS 83

ODORMA TS 93 OGEZE TS 3000 OGEZE TS 5000

Additional options for door closers

OIntegrated hold-open device OIntegrated hold-open device with smoke detector OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- RAL-coloured

Special equipment

- OClimate category III
- ODoor viewer
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)



1-leaf door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2

Models







Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1250 1750-2250					
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1186 1718-2218					
۵	Thickness of door leaf	42					
_	Solid door	0					
Configuration	Door with vision panel	0					
gur	Climate category II	•					
onfi	Climate category III	0					
ပ	Stress group E (4)	•					

Edge	Rebated	0
Ed	Unrebated	0
S	Solid wall	0
Walls	Gasblock concrete wall	0
۸	Gypsum plasterboard wall	0
es	Steel frame	0
Frames	Wooden wrap-around frame	0
ъ	SEZ-Wooden frame	0



Information







Tender specifications

Information

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection-Door/-Flap Model 3.00 / 3.10 / 3.00 KL / 3.10 KL

Approval No. DIBt. Z-6.20-1934 (T.30)O Approval No. DIBt. Z-6.20-1947 (T 30/M 3)

Optional function

O Smoke-Protection

O Sound-Insulation Rw,P = 32 dB

OBurglar-Protection WK 2

OBurglar-Protection WK 3 (M 3)

OWet Room Door NT

Radiation-Protection

O Bullet-Resistant M 3

BR-width x BR-height Throat opening O Solid wall $\dot{(M)}$

O Gasblock concrete wall O Gypsum plasterboard wall O Solid gypsum wall

OF 30-Glazing Type 25 V O Wooden elements ≥ F 60B O Steel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1.5 mm. 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

(L) (V)

(F)

- Backbend 9 mm - Floor recess 30 mm - Backbend 15 mm - without floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm O Steel block frame

Standard installation

Installation in hallways

O Round-shaped frame

OFace expansion 🐿 /. mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

Face screw fastening

Adapter fastening

Trapezoid anchor fastening

O Sports hall frame

O Fineline frame

ORequired face width 🕲 .../... mm

OFrame for reconstruction O Fixed side panel

O4-sided frame

O Steel frame with slide anchor fastening

(solid gypsum wall)

O Sheet thickness 2 mm

OBackbend up to 25 mm

O Lead inlay in frame, max. of 2 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm O Wooden block frame, architrave 45/60 mm

O Solid wooden frame, 70/73 mm

Standard installation

Installation in hallways

Installation in front of wall opening Projecting installation

O Frame for reconstruction

O Fixed side panel O4-sided frame

Aluminium frames

Anodized or colour powder-coated, 3-sided special gasket black OWrap-around frame

OBlock frame with quirk

O Round-shaped frame

Thickness of door leaf about 50 mm

Rebated (F)

Unrebated (S)

Unrebated with jamb rebate (S)

Solid door, climate category II

• Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

with panel

with coffer

with frame-like and/or fielded additional

wood panelling

OArched door

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

Pyrostop 30-10 (clear glass)

OPyrostop 30-12 (patterned glass 504)

Configuration

OStandard.

OFramed glazing
OAccording to DIN 68706

OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel sizemm
ODecorative beads on glass

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

On site coating/undercoating foil

OColour-coated

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm, on request

hinge base 3D adjustable

Rebated

• vs 8939

• vn 8938

OVSX 7939/160, 3-d. OVX 7939/160, 3-d. OBSW 060-21 V, 3-d.

OVIELER ER.TB. 160.335.FX, 3-d.
OHEWI B8108.160
OHEWI B8107.160 VX, 3-d.

OSpring hinge FHX 7939/160, 3-d. OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated

VSX 7939/160 OVX 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F Unrebated

VSX 7729/160

Unrebated

O VSX 7729/160, 3-d. O VX 7729/160, 3-d. O VX 7728/160-FORM

Concealed hinges

O Additional 3rd hinge

O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d.

O HEWI B9108.160
O HEWI B9107.160 VX, 3-d.
O Spring hinge FHX 7729/160, 3-d.

VS 8949VN 8948

O VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S

OHEWI B8107.160 VX OSpring hinge FHX 7939 OAdditional 3rd hinge

O VIELER ER.TB.160.332.S

El₂30-C5

O Concealed hinges
O HEWI B9107.160 VX
O Spring hinge FHX 7729 Additional 3rd hinge

Hinge surface - Galvanised

Plastic material

Matt nickel-plated Brass-colouredColour-coated Stainless steel

Spring hinge surface

Matt nickel-plated Galvanised - Matt chrome-plated - Colour-coated

● PZ-lock according to DIN 18250, backset 65 mm

OPanic lock, fixed knob on one side

OPanic lock, lever-lever

OSelf-bolting panic locks

OLock with special security equipment

OTriple bolting
OCode card lock system

Forend surface

Galvanised Stainless steel Brass-plated

Handles

9 mm spindle FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black

OFS-handles according to DIN 18273

with short backplate

with rosette with rectangular backplate

with long backplate
 OKnob-lever-set, fixed knob on one side

OPanic pushbar

OSecurity handle-set OCode card handle-set

Handle surface

Aluminium

Stainless steel Plastic material

Overhead door closers according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73

ODORMA TS 83

ODORMA TS 93

OGEZE TS 3000 OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer Automatic door operators

according to DIN 18263 OGEZE TSA 160 NT F

OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250 Floor-mounted door closers

according to DIN EN 1154 OGEZE BTS 550 F ODORMA BTS 80 F

OGEZE BTS 550 F-G

Additional options for door closers

OIntegrated hold-open device OFree-swing function OIntegrated hold-open device

with smoke detector OExternal smoke detector

Door closer surface

Silver-coloured Stainless steel Colour-coated

Special equipment OClimate category III

OLead inlay for Radiation-Protection up to 4 mm OElectrical strike

ODoor viewer ORetractable bottom seal (standard with Smoke-

Protection and Sound-Insulation function) OSill seal with aluminium threshold

OBlock lock

OBolt contact

OMagnetic contact OCable channel

OConcealed cable transition OSecurity bolts

OKick plate (aluminium/stainless steel)

Standard On request

Please fill in

18

O Projecting frame

O Design in stainless steel



1-leaf door

El₂30-C5 T 30

Performance overview

Main function



■ Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3 (M 3)



O Wet Room (NT)



O Radiation-Protection



O Bullet-Resistant M 3



3.00

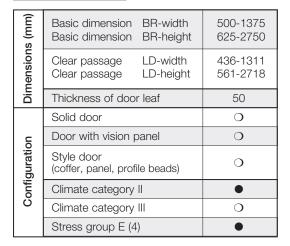




Flap 3.00 KL



Performance profile



Edge	Rebated	0
Ed	Unrebated	O
	Solid wall	0
, n	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	O
	Glazing Type 25 V	0
	Steel frame	0
န္တ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
ᇤ	Solid wooden frame	0
	Aluminium frame	0







Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with

T 30-1 FORM-Fire-Protection-Door /-Flap Model 13.00 / 13.10 / 13.00 KL / 13.10 KL

Approval No. DIBt. Z-6.20-1934

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 42 dB
- O Burglar-Protection WK 2
- Radiation-Protection

Dimensions

1					Е	3H	{-	W	/İ	di	th	1	Х			BR-height
																. Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wal
OF 30-Glazing Type 25 V
OWooden elements ≥ F 608

O Steel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm
- Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
 Round-shaped frame
- OFace expansion

 . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Expansion joint frame
- OFrame for installation in existing walls
- Face screw fastening Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
- O Fineline frame
- O Required face width 🧠 .../... mm
- O Frame for reconstruction O Design in stainless steel
- O4-sided frame
- O Fixed side panel
- OSheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 2 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

20

- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Aluminium frames

Anodized or colour powder-coated, 3-sided special gasket black

- OWrap-around frame
- OBlock frame with quirk O Round-shaped frame

Door leaf

Thickness of door leaf about 50 mm

- Rebated (F)
- Unrebated (S)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- •Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVeneer edge
- OPlastic material edge
- ORAL-coated edge
- ○◎.....

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass Glazing beads
- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable

- Rebated
- VS 8939
- **O**VN 8938
- OVSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8108.160 OHEWI B8107.160 VX. 3-d.
- OSpring hinge FHX 7939/160, 3-d.
- Additional 3rd hinge Ο◎......
- Unrebated ● VS 8949
- O VN 8948
- O VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O VX 7728/160-FORM O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
 O HEWI B9108.160 O HEWI B9107.160 VX, 3-d.
- O Spring hinge FHX 7729/160, 3-d. O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated ● VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OSpring hinge FHX 7939 OAdditional 3rd hinge

O®......

- Unrebated
- VSX 7729/160 O VX 7729/160
- O VX 7728/160-FORM O BSW 060-22 VX
- O VIELER ER.TB.160.332.S O Concealed hinges
 O HEWI B9107.160 VX
- O Spring hinge FHX 7729 O Additional 3rd hinge O 🕲

- Hinge surface
 - Galvanised Plastic material
 - Matt nickel-plated - Brass-coloured
- Stainless steel Colour-coated

Spring hinge surface

- Galvanised
- Matt nickel-plated
- Matt chrome-plated
- Colour-coated

- PZ-lock according to DIN 18250,
- backset 65 mm
- OPanic lock, fixed knob on one side OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar OSecurity handle-set OCode card handle-set

Handle surface

- Aluminium
- Stainless steel Plastic material

Door closer Overhead door closers

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer Automatic door operators

- according to DIN 18263 OGEZE TSA 160 NT F OGEZE Slimdrive EMD F
- ODORMA ED 100 / 200 / 250 Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F ODORMA BTS 80 F OGEZE BTS 550 F-G

- Additional options for door closers
- OIntegrated hold-open device
- OFree-swing function OIntegrated hold-open device with smoke detector
- OExternal smoke detector Door closer surface
- Silver-coloured Stainless steel - Colour-coated
- Special equipment
- Retractable bottom seal OClimate category III
- OLead inlay for Radiation-Protection up to 4 mm OFlectrical strike
- ODoor viewer OBlock lock OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Standard
- On request



1-leaf door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



- Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 42 dB



O Burglar-Protection WK 2



O Radiation-Protection

Models



13.00



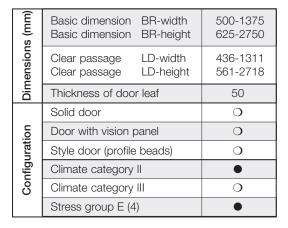


Flap 13.00 KL



Flap 13.10 KL

Performance profile



Edge	Rebated	0
Ed	Unrebated	О
	Solid wall	0
<u>န</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
န္တ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Ŧ	Solid wooden frame	0
	Aluminium frame	0



Information







Tender specifications

For additional technical information please see appendix, indicated with

T 30-1 FORM-Fire-Protection-Door/-Flap Model 16.00 / 16.10 / 16.00 KL / 16.10 KL

Approval No. DIBt. Z-6.16-1416

Optional function

- O Smoke-Protection
- O Burglar-Protection WK 2
- OBurglar-Protection WK 3

Dimensions

				В	R	\ -1	W	/ic	dt	th	1	Х						. Е	31	R-	he	eig	ht
															. 7	h	ır	oa	t	Οľ	oe	nir	ng

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
OF 30-Glazing Type 25 V	(F)

O Steel elements ≥ F 60A

1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Backbend 9 mm Floor recess 30 mm

- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Sports hall frame
- OSteel block frame
- Standard installation
 Installation Installation in hallways

- O Quirk frame

- OProjecting frame

- O Required face width 🧠 .../...mm
- O Fixed side panel
- O4-sided frame

Wooden frames

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm
- Installation in hallways
 Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction

O Sound-Insulation Rw,P = 32 dB

- O Burglar-Protection WK 4
 O Radiation-Protection

ᅠ	BR-width x	BR-height
		Throat opening

Walls	
O Solid wall	(N
O Gasblock concrete wall	(N
OGypsum plasterboard wall	(L

- OWooden elements ≥ F 60B

Galvanised and undercoated, sheet thickness

- Gypsum plasterboard wall:
- Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall

- O Round-shaped frame
- O Face expansion 🐿
- O Decorative rebated frame, rebate depth mm
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Fineline frame
- O Frame for reconstruction
- O Design in stainless steel
- OSheet thickness 2 mm
- O Backbend up to 25 mm
- O Lead inlay in frame, max. of 2 mm

- Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- Standard installation
- O Fixed side panel
- O4-sided frame

O

Aluminium frames

Anodized or colour powder-coated,

- 3-sided special gasket black
 O Wrap-around frame
- OBlock frame with quirk
- O Round-shaped frame

- Thickness of door leaf about 70 mm,
- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
 Solid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling,
- one-/two-sided
- OStyle door with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional
- wood panelling OArched door
- ODoor with vision panel
- OSports hall door

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

- Type of glass
- Pyrostop 30-10 (clear glass)
- OPyrostop 30-12 (patterned glass 504)

OPyrostop / Allstop laminated glass

- Configuration
- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm ODecorative beads on glass
- Glazing beads
- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

- Door leaf / Wooden frame
- **O**Veneer
- Transparently coated
- Stained/transparently coated
 - Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated Hinges
- Steel frames Three-roll-hinges, 2 pieces, 160 mm,
- hinge base 3D adjustable

OAdditional 3rd hinge

- Rebated/Double-rebated

 vsx 7939/160, 3-d.

 vx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
 OHEWI B8108.160 VX, 3-d.
- Unrehated
- VSX 7729/160, 3-d. VX 7729/160, 3-d.
- Wooden frames Three-roll-hinges, 2 pieces, 160 mm,
- hinge base 3D adjustable (VHX) Rebated/Double-rebated ● VSX 7939/160
- OVX 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F
- O BSW 060-22 VX, 3-d.
 O VIELER ER.TB.160.332.S, 3-d.
 O Concealed hinges O HEWI B9107.160 VX, 3-d.
- Unrebated

 VSX 7729/160

 VX 7729/160
 - O BSW 060-22 VX O VIELER ER.TB.160.332.S

- OHEWI B8107.160 VX OAdditional 3rd hinge
- O Concealed hinges O HEWI B9107.160 VX O Additional 3rd hinge

El₂30-C5

- Galvanised
- Matt nickel-plated

- PZ-lock according to DIN 18250,

- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting

Forend surface

- Brass-plated
- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
 OFS-handles according to DIN 18273

- with rosette
- with rectangular backplate
- OKnob-lever-set, fixed knob on one side
- OSports hall handles (flush) OPanic pushbar

Aluminium

Door closer

- Overhead door closers
- according to DIN EN 1154

 GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000

OGEZE TS 5000

- OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

- ODORMA BTS 80 F OGEZE BTS 550 F-G
- Additional options for door closers
- OFree-swing function
 OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Colour-coated

OFlectrical strike

- Special equipment OLead inlay for Radiation-Protection up to 4 mm
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OSill seal with aluminium threshold

ODoor viewer

- OBolt contact
- OMagnetic contact
 OCable channel
- OSecurity bolts
- OKick plate (aluminium/stainless steel)
 - On request
- Please fill in

- Hinge surface
- Plastic material
 - Brass-coloured - Colour-coated
- Stainless steel
- backset 65 mm OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OCode card lock system
- Galvanised - Stainless steel
- Handles
- with short backplate
- with long backplate
- OSecurity handle-set
- OCode card handle-set Handle surface
- Stainless steel Plastic material

- ODORMA ITS 96 / GEZE Boxer Automatic door operators according to DIN 18263 OGEZE TSA 160 NT F
- Floor-mounted door closers according to DIN EN 1154
 OGEZE BTS 550 F
 - OIntegrated hold-open device
- Stainless steel
- OBlock lock
- OConcealed cable transition
- Standard

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1-leaf door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 32 dB



- O Burglar-Protection WK 2
- O Burglar-Protection WK 3
 O Burglar-Protection WK 4



O Radiation-Protection

Models



16.00

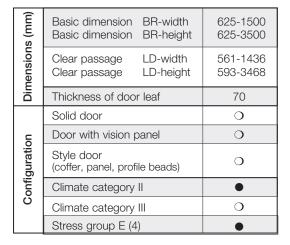


Flap



Flap 16.10 KL

16.00 KL Performance profile



a l	Rebated	0
Edge	Unrebated with jamb rebate	О
ш	Double-rebated	0
	Solid wall	О
S	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	O
	Glazing Type 25 V	0
	Steel frame	O
	Sports hall frame	0
nes	Wooden wrap-around frame	О
Frames	Wooden block frame	0
_	Solid wooden frame	0
	Aluminium frame	0











16 N Super size

1-leaf door with optional flap door

Tender specifications

El₂30-C5

Information

For additional technical information please see appendix, indicated with

T 30-1 FORM-Fire-Protection-Door Model 16.00 / 16.10

Approval

Applied for approval

Dimensions

. . BR-height 🖎 Throat opening

O Solid wall O Gasblock concrete wall O Gypsum plasterboard wall (M) (L) (F)

OF 30-Glazing Type 25 V O Wooden elements ≥ F 60B

O Steel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall: - Backbend 9 mm Gypsum plasterboard wall:

- Floor recess 30 mm

- Backbend 15 mm
 without floor recess
- OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Sports hall frame

- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame

- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
- O Required face width 🕲 .../...mm
- O Frame for reconstruction
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm O Backbend up to 25 mm
- O Lead inlay in frame, max. of 2 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf

Thickness of door leaf about 70 mm,

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- OSolid door, climate category III ● Stress group E (4)
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling

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- ODoor with vision panel
- OSports hall door **Edges**
- Solid wood batten, white/red wood, 3-sided
 OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Door leaf flap door

Thickness of door leaf about 70 mm,

- Unrebated with jamb rebate (S)
- Solid door, climate category II
- OSolid door, climate category III
- Stress group E (4)
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 Pyrostop 30-12 (patterned glass 504)
 Pyrostop / Allstop laminated glass
- Configuration
- **O**Standard
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🧠 mm
- ODecorative beads on glass Glazing beads
- OSolid wood veneered
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 4 pieces, 160 mm,

hinge base 3D adjustable

Rebated

Simons VX 7939/160-4 N

Unrebated with jamb rebate Simons VX 7929/160-4 N

Wooden frames

Three-roll-hinges, 4 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated Simons VX 7939/160-4 N

Unrebated with jamb rebate ● Simons VX 7929/160-4 N

Hinge surface

Galvanised Plastic material Matt nickel-plated Brass-coloured

Hinge selection depends on the elements dimensions

Stainless steel - Colour-coated

Hinges flap door

Concealed hinges

Locks super sized door Locks flap door

- PZ-lock according to DIN 18250,
- backset 65 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
 FS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
 OKnob-lever-set, fixed knob on one side
 OSports hall handles (flush)
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set Handle surface
- Aluminium Stainless steel
- Plastic material

Door closer

- Overhead door closers according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83 ODORMA TS 93 OGEZE TS 3000
- OGEZE TS 5000

DORMA Tandem door closer **Automatic door operators**

- according to DIN 18263
- OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

Floor-mounted door closers according to DIN EN 1154

- ODORMA BTS 80 F OGEZE BTS 550 F-G
- Additional options for door closers OIntegrated hold-open device

OGEZE BTS 550 F

- OFree-swing function OIntegrated hold-open device
- with smoke detector OExternal smoke detector
- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated
- Door closer floap door ODORMA ITS 96 / GEZE Boxer
- Special equipment OElectrical strike
- ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)



16 N Super size

1-leaf door with optional flap door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30



Models



16.00



16.10



16.00

Flap door



16.00

Flap door 16.10

Performance profile

(mı	Basic dimension Basic dimension	BR-width BR-height	1375-2500 2000-3500
Dimensions (mm)	Clear passage Clear passage	LD-width LD-height	1311-2436 1968-3468
Dimens	Flap door	561-1061 1718-2218	
	Thickness of door	70	
	Solid door		0
_	Door with vision p	panel	O
Configuration	Style door (coffer, panel, profi	0	
onfi	Climate category	II	•
Q	Climate category	III	О
	Stress group E (4)	•

	Rebated	0
ge	Unrebated with jamb rebate	0
Edge	Flap door, Unrebated with jamb rebate	0
	Solid wall	0
Walls	Gasblock concrete wall	0
Ma	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
ရွ	Sports hall frame	0
Frames	Wooden wrap-around frame	0
ᇤ	Wooden block frame	0
	Solid wooden frame	0









Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection-Door/-Flap Model 5.00 / 5.10 / 5.00 KL / 5.10 KL

Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB Sound-Insulation Rw,P = 37 dB
- O Burglar-Protection WK 2 O Burglar-Protection WK 3
- O Radiation-Protection

Dimensions

..........BR-width xBR-height 🖎 Throat opening

O Solid wall O Gasblock concrete wall (M)

O Gypsum plasterboard wall OF 30-Glazing Type 25 V

(L) (F)

OWooden elements ≥ F 60B OSteel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness

1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm

- Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,

for gypsum plasterboard wall

- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion [®] /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls

 Adapter fastening

 Trapezoid anchor fastening

- O Projecting frame
- O Sports hall frame
- O Required face width @ ../...mm
- O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 2 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

26

- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Aluminium frames

Anodized or colour powder-coated, 3-sided special gasket black

- OWrap-around frame
- OBlock frame with quirk
- ORound-shaped frame

Door leaf

Thickness of door leaf about 70 mm

- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

- Pyrostop-Phonstop 30-17 (clear glass)
 OPyrostop-Phonstop 30-17 (patterned glass 504)
- OPyrostop / Allstop laminated glass

Configuration

- OStandard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm ODecorative beads on glass

Glazing beads

- OSolid wood veneered OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

- Rebated/Double-rebated for Rw,P = 42 dB
 vx 7939/160 FD, 3-d.
- ○BSW 060-21 VX FD, 3-d. for Rw,P = 37 dB
 VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d
- OHEWI B8107.160 VX. 3-d.
- OAdditional 3rd hinge
- Unrebated VSX 7729/160, 3-d.
- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges
- O HEWI B9107.160 VX, 3-d O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated/Double-rebated for Rw,P = 42 dB

- vx 7939/160 FD

 OBSW 060-21 vx FD

 for Rw,P = 37 dB

 vsx 7939/160
- Unrebated VSX 7729/160 O VX 7729/160 O BSW 060-22 VX
- O VIELER ER.TB.160.332.S O HEWI B9107.160 VX

Ovx 7939/160 O Concealed hinges OBSW 060-21 VX O Additional 3rd hinge OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OAdditional 3rd hinge

- Hinge surface - Plastic material Galvanised
 - Matt nickel-plated
- Brass-coloured Stainless steel Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting OCode card lock system

Forend surface

Galvanised Stainless steel

9 mm spindle

Handles

- Brass-plated

- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side OSports hall handles (flush)
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set Handle surface
- Aluminium Stainless steel Plastic material

Door closer

Overhead door closers

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83 ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer Automatic door operators

- according to DIN 18263
- OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250
- Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F ODORMA BTS 80 F OGEZE BTS 550 F-G

- Additional options for door closers
- OIntegrated hold-open device OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector Door closer surface Silver-coloured
- Stainless steel Colour-coated
- Special equipment
- Retractable bottom seal OClimate category III
 OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel) On request
- Standard



1-leaf door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



O Radiation-Protection

Models



5.00





Flap 5.00 KL



Flap 5.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 625-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1436 593-2968
Din	Thickness of door leaf	70
	Solid door	О
ion	Door with vision panel	0
Configuration	Style door (profile beads)	О
nfig	Climate category II	•
ပိ	Climate category III	О
	Stress group E (4)	0

0	Rebated	0
Edge	Unrebated with jamb rebate	0
ш	Double-rebated	0
	Solid wall	0
Walls	Gasblock concrete wall	0
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
ပ္သ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
뇬	Solid wooden frame	0
	Aluminium frame	0



Information







Tender specifications

El₂30-C5

Information

For additional technical information please see appendix, indicated with

T 30-1 FORM-Fire-Protection-Door Model 50-1.00

Approval

Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 50 dB
- O Sound-Insulation Rw,P = 48 dB
- O Burglar-Protection WK 2
- O Burglar-Protection WK 3
 O Radiation-Protection

Dimensions

					Е	3F	ξ-	V	/i	ď	th	1	Х			BR-height
																Throat opening

Walls

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
OF 30-Glazing Type 25 V	(F)
OWooden elements ≥ F 60B	

OSteel elements ≥ F 60A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 15 mmwithout floor recess - Backbend 9 mm - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame.
- for gypsum plasterboard wall O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
 O Face expansion [®] / mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening Trapezoid anchor fastening
- O Projecting frame
- O Sports hall frame
- O Required face width 🧠 . . . / . . . mm O Frame for reconstruction
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/75 mm
- O Solid wooden frame, 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame

28

Door leaf

Thickness of door leaf about 91 mm,

- Rebated (F)
- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVeneer edge OPlastic material edge
- OColour-coated edge
- O.....

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0.8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable Unrebated

- Double-rebated VX7939/160-4 N FD OBSW090-745/160 DF, VX
- O VX7729/160-4 N OBSW090-747/160, VX O Additional 3rd hinge
- OAdditional 3rd hinge OAdditional 4th hinge
 - O Additional 4th hinge 0 🕸

Wooden frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable (VHX) Unrebated

Double-rebated ● VX7939/160-4 N FD OBSW090-745/160 DF, VX OAdditional 3rd hinge

OAdditional 4th hinge

O VX7729/160-4 N O BSW090-747/160, VX O Additional 3rd hinge O Additional 4th hinge

Hinge surface

- Galvanised Matt nickel-plated
- Brass-coloured
- Stainless steel
- Colour-coated

Locks

- PZ-lock according to DIN 18250, backset 80 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system
 Forend surface

- Galvanised
- Stainless steel
 - Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side OSports hall handles (flush)
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material ○◎...

Door closer

Overhead door closers according to DIN EN 1154

- GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer Automatic door operators

according to DIN 18263

OGEZE TSA 160 NT F

OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F

ODORMA BTS 80 F

OGEZE BTS 550 F-G

- Additional options for door closers
- OIntegrated hold-open device
- OFree-swing function
 OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated
- Special equipment
- •2 retractable bottom seals OClimate category III
- OElectrical strike
- ODoor viewer
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)

Standard



Please fill in



50-1

1-leaf door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



- Sound-Insulation Rw,P = 50 dB
- O Sound-Insulation Rw,P = 48 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3

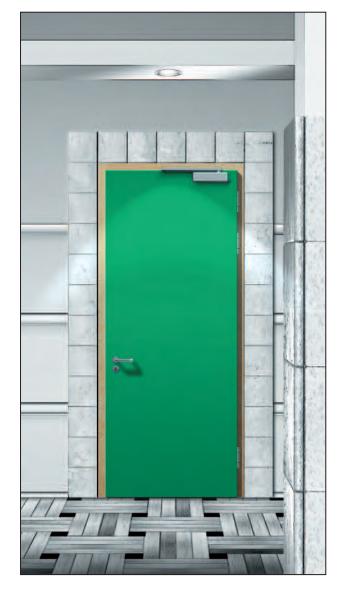


O Radiation-Protection

Models



50-1.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-1500 1750-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	781-1406 1703-2953
Dir	Thickness of door leaf	91
	Solid door	0
Configuration	Style door (profile beads)	0
igur	Climate category II	•
onf	Climate category III	0
0	Stress group E (4)	•

σ.	Rebated	0
Edge	Double-rebated	•
ш	with double jamb rebate	0
	Solid wall	0
Walls	Gasblock concrete wall	0
Ma	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
nes	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Solid wooden frame	0



Information



Standard	 On request



Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection-Door/-Flap Model 35.00 / 35.10

Approval

• Approval No. DIBt. Z-6.20-2077 OCE-label according to DIN EN 14351-1 (external doors), applied for approval

Optional function

- O Smoke-Protection Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB
- OBurglar-Protection WK 2
- OBurglar-Protection WK 3
- Climate sturdiness
- Climate category IV
- Protection against cold/heat insulation $U = 1,38 \frac{W}{m^* \cdot K}$ (SD 42)

 - $U = 1,31 \frac{W}{m^* \cdot K}$ (SD 37 / SD 32)
- Seal impermeability
 - $a<1.0\;\tfrac{m'}{h\cdot m}\;\;\mathrm{da}\,\mathrm{Pa}^{\;2/3}$

Dimensions

BR-width x BR-height Throat opening

Walls

- O Solid wall (M) O Gasblock concrete wall (M) OGypsum plasterboard wall (L) OF 30-Glazing Type 25 V OWooden elements ≥ F 60B
- OSteel elements ≥ F 60A

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

Solid wooden frame, 70/95 mm,

- aluminium stop rail
- Standard installation
- Installation in front of wall opening
- Projecting installation
- O4-sided frame

Door leaf

Thickness of door leaf about 70 mm

- Double-rebated (D)
- Solid door, climate category IV
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-27 / THS (clear glass)
- Oln combination with Pyrostop 30-10 with different functional glass, depending on purpose

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm OOn site coating / HPL 0500 A OColour-coated

- OColour-scumbled

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Double-rebated
- VX 7939/160 FD
- OAdditional 3rd hinge ○◎
- Hinge surface
- Galvanised
- Plastic material - Brass-coloured
- Matt nickel-plated
- Stainless steel
- Colour-coated

Locks

- PZ-lock according to DIN 18250, backset 80 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
 OCode card lock system

Forend surface

- Galvanised
- Stainless steel - Brass-plated

- Handles
- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set

Handle surface Aluminium

- Stainless steel Plastic material

Door closer

Overhead door closers according to DIN EN 1154

- GEZE TS 4000 / DORMA TS 73 ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operators according to DIN 18263

- OGEZE TSA 160 NT F OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel Colour-coated
- O®

Special equipment

- Retractable bottom seal
- OElectrical strike
- ODoor viewer
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



35 N

1-leaf door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



- Sound-Insulation Rw,P = 42 dB
 Sound-Insulation Rw,P = 37 dB
 Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2O Burglar-Protection WK 3



 Climate sturdiness, protection against cold/ heat insulation

Note

Door element for external use; for not directly weather exposed locations.

Models



35.00



35.00 KL



Flap 35.10 KL

Performance profile

Flap

(mm)	Basic dimension BR-width Basic dimension BR-height	681-1306 636-2278			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	531-1156 531-2203			
Din	Thickness of door leaf	70			
u	Solid door	0			
atio	Door with vision panel	0			
Configuration	Style door (profile beads)	0			
onfi	Climate category IV	•			
O	Stress group E (4)	•			

Edge	Double-rebated	•			
	Solid wall	О			
Walls	Gasblock concrete wall	0			
×	Gypsum plasterboard wall	0			
	Glazing Type 25 V	0			
Frame	Solid wooden frame	•			

Schörghuber

Information





Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection-Door Model 10.00 / 10.10

Approval

Approval No. DIBt. Z-6.20-2040

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

					В	₹.	٧-	۷İ	dt	th	1	Х			BR-height
															Throat opening

Walls

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
OF 30-Glazing Type 25 V	(F)
O Wooden elements ≥ F 60B	, ,

Steel frames

OSteel elements ≥ F 60A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Floor recess 30 mm
- Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
 Round-shaped frame
- OFace expansion 🐿 /. mm O Decorative rebated frame, rebate depth mm

- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening Trapezoid anchor fastening
- O Projecting frame
- O Required face width 🧠 .../...mm
- O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm O Solid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf

Thickness of door leaf about 110 mm,

- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or additional fielded wood panelling
- OArched door
- ODoor with vision panel

Edges

• Visible solid wood edge band, 3-sided

- OColour-coated edge

Vision panel

Type of glass

- Pyrostop-Phonstop 30-17 (clear glass)
 Pyrostop-Phonstop 30-17 (patterned glass 504)
 Pyrostop / Allstop laminated glass
 Configuration

- OStandard
- OFramed glazing
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
 ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Double-rebated for Rw,P = 45 dB/42 dB

- VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = $37 \, dB / 32 \, dB$
- VX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d. OVIELER ER.TB. 160,337.F. 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- Wooden frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable (VHX)

- Double-rebated for Rw,P = 45 dB/42 dB ● VX 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB / 32 dB● VX 7939/160
- OBSW 060-21 VX QVIELER ER TR 160 337 E OHEWI B8107,160 VX
- OAdditional 3rd hinge Hinge surface
- Galvanised Matt nickel-plated
- Plastic material - Brass-coloured

Unrebated

VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge

Unrebated

VX 7729/160

O BSW 060-22 VX

O VIELER ER.TB.160.332.S

0 №

O Concealed hinges
O HEWI B9107.160 VX

O Additional 3rd hinge

O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX, 3-d.

Stainless steel - Colour-coated

Locks

- PZ-lock according to DIN 18250, backset 80 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system
 Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
 OKnob-lever-set, fixed knob on one side
 OSports hall handles (flush)

- OPanic pushbar
- OSecurity handle-set OCode card handle-set
- Handle surface Aluminium
- Stainless steel Plastic material

Door closer

Overhead door closers

- according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93 OGEZE TS 5500 ODORMA ITS 96 / GEZE Boxer

Automatic door operators according to DIN 18263

- OGEZE TSA 160 NT F
- OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

Floor-mounted door closers according to DIN EN 1154

- OGEZE BTS 550 F
- ODORMA BTS 80 F OGEZE BTS 550 F-G
- Additional options for door closers
- OIntegrated hold-open device OFree-swing function OIntegrated hold-open device with smoke detector
- OExternal smoke detector Door closer surface
- Silver-coloured
- Stainless steel Colour-coated
- Special equipment • 2 retractable bottom seals
- OElectrical strike ODoor viewer
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



1-leaf door

Performance overview

El₂30-C5

T 30

Main function



• Fire-Protection T 30

Optional function



O Smoke-Protection



- O Sound-Insulation Rw,P = 45 dB O Sound-Insulation Rw,P = 42 dB
- \odot Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



10.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	750-1500 1000-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	656-1406 953-3453
Din	Thickness of door leaf	110
	Solid door	0
tion	Door with vision panel	О
Configuration	Style door (coffer, panel, profile beads)	О
Con	Climate category II	•
	Stress group E (4)	•

Edge	Double-rebated	О
찝	with double jamb rebate	О
	Solid wall	0
Walls	Gasblock concrete wall	0
	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
စ္ဆ	Wooden wrap-around frame	О
Frames	Wooden block frame	0
ŭ	Solid wooden frame	0
	4-sided frame	0



Information







Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection-Door/-Flap Model 25.10 / 25.10 KL

Approval

Approval No. DIBt. Z-6.20-2007

Optional function

- O Smoke-Protection
- OSound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

				Е	BF	₹-	٧	۷İ	ď	th	1	Х			BR-height
															Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
OF 30-Glazing Type 25 V
OWooden elements > F 60B

Steel frames

O Steel elements ≥ F 60A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 15 mmwithout floor recess - Backbend 9 mm - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

- OSteel block frame
- Standard installation
- Installation in hallways
- ORound-shaped frame
 OFace expansion \$\simeq \cdots / \cdots \cdos
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame O Sports hall frame
- O Fineline frame
- O Required face width 🧠 .../... mm O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) OWooden wrap-around frame, architrave 60/60 mm

- Wooden block frame, architrave 45/60 mm○ Solid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Frame thickness 73/95 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Fire protection glass
 OSolid wood framed style door
- with panel
- with coffer
- with panel version II
- OArched door
- OSolid wood framed door with round arch

Type of glass

- Pyrostop 30-10 (clear glass)Pyrostop 30-12 (patterned glass 504)
- OPyrostop-Phonstop 30-17 (clear glass)
- OPyrostop-Phonstop 30-17 (patterned glass 504)
- OContraflam 30-N2
- OContraflam 30-N2 ISO

Configuration

OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm

side/top/bottom \geq 105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm, on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm

ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated Untreated
- OOn site coating/undercoating foil
- OColour-coated
- O⊚.....

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable Unrebated

Rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX. 3-d. OAdditional 3rd hinge

- O HEWI B9107,160 VX, 3-d. O Additional 3rd hinge ○◎..... Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)
- Rebated ● VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge
- Unrebated ● VSX 7729/160
- O VX 7729/160 O BSW 060-22 VX
- O VIELER ER.TB.160.332.S O Concealed hinges O HEWI B9107,160 VX

● VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O Concealed hinges

O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O Additional 3rd hinge 0 🕲

Hinge surface

- Galvanised Matt nickel-plated
- Plastic material Brass-coloured
- Stainless steel
- Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm
- OLock for narrow style doors
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks OLock with special security equipment
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- ◆FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
 OCode card handle-set

Handle surface

- Aluminium
- Stainless steel Plastic material
- О፟

Door closer Overhead door closers

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73 ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operators according to DIN 18263 OGEZE TSA 160 NT F

- OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Floor-mounted door closers

- according to DIN EN 1154 OGEZE BTS 550 F
- ODORMA BTS 80 F OGEZE BTS 550 F-G
- Additional options for door closers
- OIntegrated hold-open device
- OFree-swing function OIntegrated hold-open device

with smoke detector OExternal smoke detector

- Door closer surface
- Silver-coloured
- Stainless steel - Colour-coated
- ○◎

Special equipment

- OElectrical strike ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function) OSill seal with aluminium threshold
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



25 N

1-leaf door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB

O Sound-Insulation Rw,P = 32 dB



Models



25.10



Flap

25.10 KL



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 625-3750			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1436 593-3718			
Din	Thickness of door leaf	73/95			
a-	Solid wood framed door	О			
Configura- tion	Solid wood framed style door (coffer, panel, panel version II)	0			
ŏ	Climate category II	•			
Edge	Rebated	0			
Ed	Unrebated with jamb rebate	0			

	Solid wall	0
Walls	Gasblock concrete wall	О
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	O
	Steel frame	0
န္	Wooden wrap-around frame	O
Frames	Wooden block frame	0
Ę.	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i Standard O On request



25 N Slimline

1-leaf door

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection-Door Model 25.10 Slimline

Approval

Applied for approval

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

					В	F	ξ-	٧	/i	dt	th	1	Х			BR-height
																Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
OF 30-Glazing Type 25 V

OWooden elements ≥ F 60B O Steel elements ≥ F 60A

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Solid wooden frame, 70/73 mm

36

- respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel O4-sided frame
- Ο⊚

Door leaf

Frame thickness 50 mm,

- Unrebated (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

Promaglas 30-20

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom \geq 30/30/0 mm
- side/top/bottom ≥ 30/30/0 mm,

on request with bar ≥ 55 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm

...../..../ for bottom frieze widths = 0 mm, stainless steel guard rail required

ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Door leaf / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil

OColour-coated

Hinges

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VX 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OHEWI B9107,160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated Stainless steel
- Brass-coloured Colour-coated

- PZ-lock according to DIN 18250,
- backset 65 mm
- OLock for narrow style doors OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

9 mm spindle

- FS-handles, plastic material, round-shaped. with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set Handle surface

- Aluminium Stainless steel
- Plastic material

Door closer

Overhead door closers according to DIN EN 1154

DORMA ITS 96 / GEZE Boxer

- OGEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000 OGEZE TS 5000

Automatic door operators according to DIN 18263

OGEZE TSA 160 NT F OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F-G

Additional options for door closers

- Ointegrated hold-open device OFree-swing function
- OIntegrated hold-open device
- with smoke detector

OExternal smoke detector Door closer surface

- Silver-coloured
- Stainless steel Colour-coated

Special equipment

- OElectrical strike
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition OSecurity bolts



25 N Slimline

1-leaf door

Performance overview

El₂30-C5 T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB

O Sound-Insulation Rw,P = 32 dB

Models



25.10 SL



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	750-1410 1750-2529			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	590-1250 1670-2449			
Din	Thickness of door leaf	50			
<u>ن</u>	Solid wood framed door	0			
Configura- tion	Solid wood framed style door (coffer, panel, panel version II)	0			
ŏ	Climate category II	•			
Edge	Unrebated	•			

	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	O
Frame	Solid wooden frame	0
Fra	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



Standard O On request



3 N ST

1-leaf sliding door

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection sliding door, window Model 3.00 ST / 3.10 ST

Approval

Applied for approval

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB
- O Sound-Insulation Rw,P = 37 dB

BR-width x BR-height Throat opening

O Solid wall

(M)

OGypsum plasterboard wall

(L) (F)

OF 30-Glazing Type 25 V OWooden elements ≥ F 60B

OSteel elements ≥ F 60A

Steel frames

- OSteel wrap-around frame
- OFrame for installation in existing walls
 - Adapter fastening
 - Trapezoid anchor fastening
- O Steel block frame with concealed slide rail

Wooden frames

- OWooden wrap-around frame
- O Wooden corner frame O Wooden block frame
- with concealed slide rail

Door leaf

- Thickness of door leaf about 50 mm
- Unrebated (S)
- Solid door, climate category II
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-, 3-, 4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- OStandard
- OFramed glazing

- OAccording to DIN 68706 OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm
- OSpecial vision panel size 🕲 mm

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

OAluminium slide rail with plastic material rolls

- without lock
- OCircular lock

OUnrebated pulls on both sides O.

- OManual opening, closing by weight with shock absorbing action
- OMagnetic locking device in combination with smoke detector
- OAutomatic door operator, on request control with light barrier, key-operated push button, code card reader, etc.

Special equipment

- OClimate category III
- ODoor viewer
- OKick plate (aluminium/stainless steel)



3 N ST

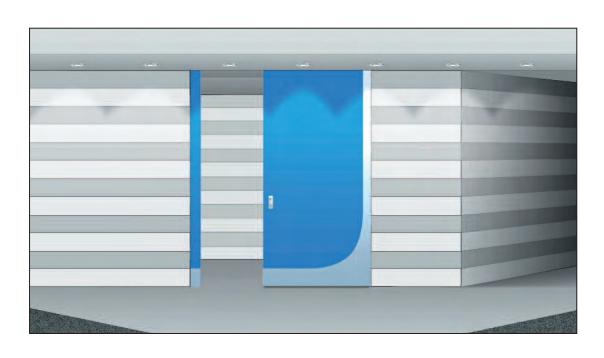
1-leaf sliding door

Performance overview

El₂30-C5

T 30

Fire-Protection-Doors



Main function



• Fire-Protection T 30

Optinal function

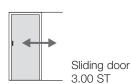


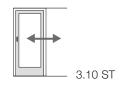
O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

Models











window __ 3.10 ST

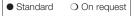
Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 625-3000			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1436 593-2968			
٥	Thickness of door leaf	50			
ion	Solid door	0			
Configuration	Door with vision panel	0			
nfig	Climate category II	•			
ပိ	Climate category III	0			

Edge	Unrebated	•		
S	Solid wall	0		
Walls	Gypsum plasterboard wall	0		
۸	Glazing Type 25 V	О		
	Steel frame	0		
nes	Wooden wrap-around frame	0		
Frames	Wooden block frame	0		
	Wooden corner frame	0		



Information





16 N ST Super size

1-leaf sliding door with optional flap door

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection sliding door Model 16.00 ST / 16.10 ST

Approval

Applied for approval

Dimensions

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall

OGypsum plasterboard wall

OF 30-Glazing Type 25 V O Wooden elements ≥ F 60B

OSteel elements ≥ F 60A

Steel frames

- O Steel wrap-around frame
- O Frame for installation in existing walls
 - Adapter fastening
 - Trapezoid anchor fastening

Wooden frames

- OWooden wrap-around frame

Door leaf

- Thickness of door leaf about 70 mm
- Unrebated (S)
- Solid door, climate category II
- OSolid door, climate category III
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-, 3-, 4-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Door leaf flap door

- Thickness of door leaf about 70 mm
- Unrebated (S)
- Solid door, climate category II
 Solid door, climate category III
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-, 3-, 4-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- **O**Standard
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm OSpecial vision panel size 🕲 mm

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

OAluminium slide rail with plastic material rolls

Locks sliding door

- without lock
- OCircular lock

Locks flap door

- PZ-lock according to DIN 18250,
- backset 65 mm
- OPanic lock, fixed knob on one side OPanic lock, lever-lever
- OSelf-bolting panic locks OLock with special security equipment
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Hinges flap door

OConcealed hinges

Door closer flap door

ODORMA ITS 96 / GEZE Boxer

OUnrebated pulls on both sides

Handles flap door

OUnrebated FSB 7940 pulls on both sides

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Operation

- OManual opening, closing by weight with shock absorbing action
- OMagnetic locking device in combination with smoke detector

Special equipment

- ODoor viewer
- OKick plate (aluminium/stainless steel)



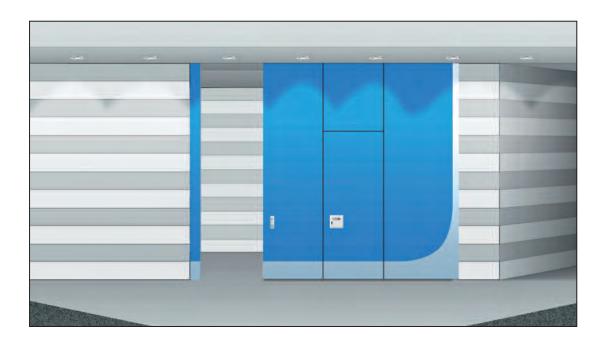
16 N ST Super size

El₂30-C5

1-leaf sliding door with optional flap door

Performance overview

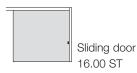
T 30

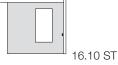


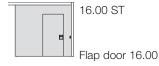
Main function



● Fire-Protection T 30









Performance profile

(mı	Basic dimension Basic dimension	1000-2960 2000-3000				
Dimensions (mm)	Clear passage Clear passage	936-2888 1968-2968				
Dimens	Flap door	561-1061 1718-2218				
	Thickness of doo	70				
	Solid door	0				
ion	Door with vision p	0				
Configuration	Flap door, solid d	0				
nfig	Flap door, door v	0				
Ö	Climate category	II	•			
	Climate category	0				

an an	Unrebated sliding door	•
ебрЭ	Flap door, unrebated with jamb rebate	•
(0	Solid wall	0
Walls	Gypsum plasterboard wall	0
^	Glazing Type 25 V	0
	Steel frame	0
Frames	Wooden wrap-around frame	0
Frar	Wooden block frame	О
	Wooden corner frame	0



Information

For additional technical information please see appendix, indicated with i



Standard On request



1-leaf door, with top panel

Tender specifications

Hinge surface

Galvanised Matt nickel-plated

Galvanised Matt nickel-plated

Spring hinge surface

Matt chrome-plated

backset 65 mm

OTriple bolting

Galvanised Stainless steel

- Brass-plated

9 mm spindle

with rosette

Handles

OSelf-bolting panic locks

OCode card lock system Forend surface

with short backplate

with long backplate

OPanic pushbar
OSecurity handle-set

Handle surface

Stainless steel

Plastic material

- Aluminium

OCode card handle-set

with rectangular backplate

● PZ-lock according to DIN 18250,

OPanic lock, fixed knob on one side OPanic lock, lever-lever

OLock with special security equipment

• FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black OFS-handles according to DIN 18273

OKnob-lever-set, fixed knob on one side

Stainless steel

El₂30-C5

- Plastic material

- Brass-coloured

Colour-coated

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection-Door Model 3.01 / 3.11 / 3.02 / 3.12

Approval

Approval No. DIBt. Z-6.20-1934

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB

Dimensions

					Е	3F	₹-	٧	۷İ	dt	th	1	Х			BR-height
																Throat opening

Walls

O Solid wall	(M
O Gasblock concrete wall	(M
O Gypsum plasterboard wall	(L
OF 30-Glazing Type 25 V	(F
OWooden elements ≥ F 60B	

Steel frames

OSteel elements ≥ F 60A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall: - Backbend 9 mm

- Gypsum plasterboard wall:
- Backbend 15 mm
- Floor recess 30 mm - without floor recess OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🐿 .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
- Fineline frame
- O Required face width 🕲 . . . / . . . mm O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
 Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Thickness of door leaf about 50 mm

42

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)

- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
 OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated
- OFanlight with transom and Fire protection glass

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable

- Rebated
- VS 8939 OVN 8938
- OVSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 vx, 3-d.
- OVIELER ER.TB.160.337.F, 3-d
- OHEWI B8108.160.
- OHEWI B8107.160 VX, 3-d. OSpring hinge FHX 7939/160, 3-d.

OAdditional 3rd hinge

- Unrebated VS 8949
- O VN 8948
- O VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O VX 7728-160-FORM
- O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
- O HEWI B9108.160
 - O HEWI B9107.160 VX, 3-d. O Spring hinge FHX 7729/160, 3-d.

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated

- VSX 7939/160 Ovx 7939/160 OBSW 060-21 VX
- OVIELER ER.TB.160.337.F OHEWI B8107.160 OSpring hinge FHX 7939 OAdditional 3rd hinge
- Unrebated ● VSX 7729/160 O VX 7729/160 O VX 7728-160-FORM
- O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges O HEWI B9107.160 VX O Spring hinge FHX 7729 O Additional 3rd hinge

- Door closer Overhead door closers
 - according to DIN EN 1154

 GEZE TS 4000 / DORMA TS 73

 - ODORMA TS 83
 - ODORMA TS 93
 - OGEZE TS 3000
 - OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer Automatic door operators according to DIN 18263 OGEZE TSA 160 NT F

- OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Floor-mounted door closers according to DIN EN 1154

- OGEZE BTS 550 F
- ODORMA BTS 80 F OGEZE BTS 550 F-G
- Additional options for door closers OIntegrated hold-open device
- OFree-swing function OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel Colour-coated
- Special equipment
- OClimate category III OElectrical strike
- ODoor viewer
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
 OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)
- Standard



1-leaf door, with top panel

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



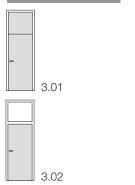
O Smoke-Protection

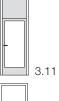


O Sound-Insulation Rw,P = 32 dB



Models







Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1375 2000-3500			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1311 1968-3468 1718-2718			
Dir	Thickness of door leaf	50			
	Solid door	0			
_	Door with vision panel	0			
Configuration	Style door (coffer, panel, profile beads)	0			
onfi	Climate category II	•			
Ŏ	Climate category III	0			
	Stress group E (4)	•			

Edge	Rebated	0
Ed	Unrebated	0
	Solid wall	0
S	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
Se	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Ŧ	Solid wooden frame	0
	4-sided frame	0



Information





1-leaf door, with top panel

Tender specifications

El₂30-C5

Information

For additional technical information please see appendix, indicated with



T 30-1 FORM-Fire-Protection-Door Model 13.01 / 13.11 / 13.02 / 13.12

Approval

Approval No. DIBt. Z-6.20-1934

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 37 dB

Dimensions

					Е	3F	₹-	V	۷İ	dt	th	1	Х			BR-height
																Throat opening

Walls

O Solid wall	(M
O Gasblock concrete wall	(M
O Gypsum plasterboard wa	ll (L
OF 30-Glazing Type 25 V	(F
O Wooden elements > F 60	B

Steel frames

OSteel elements ≥ F 60A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm - Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion @ .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
- O Fineline frame O Required face width 🕲 . . . / . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- OWooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
 Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Thickness of door leaf about 50 mm

44

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)

- O Door with holohedral additional wood panelling, one-/two-sided
- O Style door
- with profile beadswith frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edae
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- OStandard
- OFramed glazing
 - OAccording to DIN 68706

 - OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

- OTop panel
- Counter-rebated
- with transom
- OFanlight with transom and Fire protection glass

Surfaces

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request

hinge base 3D adjustable

- Rebated VS 8939
- **Q**VN 8938
- OVSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.

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- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d
- OHEWI B8108.160.
- OHEWI B8107.160 VX, 3-d.
- OSpring hinge FHX 7939/160, 3-d.
- OAdditional 3rd hinge
- Unrebated VS 8949
- **O** VN 8948 O VSX 7729/160, 3-d.
- O VX 7729/160, 3-d. O VX 7728-160-FORM
- O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
 O HEWI B9108.160
- O HEWI B9107.160 VX, 3-d.
- O Spring hinge FHX 7729/160, 3-d.
- O Additional 3rd hinge

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated

- VSX 7939/160 Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 OSpring hinge FHX 7939 OAdditional 3rd hinge
- Unrebated
- VSX 7729/160 O VX 7729/160
- O VX 7728-160-FORM O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges
 O HEWI B9107.160 VX
- O Spring hinge FHX 7729 O Additional 3rd hinge

Hinge surface

- Galvanised Plastic material
- Matt nickel-plated - Brass-coloured
- Stainless steel Colour-coated

Spring hinge surface

- Galvanised
- Matt nickel-plated
- Matt chrome-plated

- PZ-lock according to DIN 18250, backset 65 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks OLock with special security equipment OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side OPanic pushbar
- OSecurity handle-set

OCode card handle-set Handle surface

- Aluminium
- Stainless steel
- Plastic material

Overhead door closers

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83 ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operators according to DIN 18263 OGEZE TSA 160 NT F OGEZE Slimdrive EMD F

- ODORMA ED 100 / 200 / 250
- Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F ODORMA BTS 80 F OGEZE BTS 550 F-G

- Additional options for door closers
- OIntegrated hold-open device OFree-swing function OIntegrated hold-open device
- with smoke detector

 OExternal smoke detector Door closer surface

Silver-coloured Stainless steel Colour-coated

- 0७...... Special equipment
- Retractable bottom seal OClimate category III
- OFlectrical strike ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Standard
- On request



13 N

1-leaf door, with top panel

Performance overview

El₂30-C5

T 30

Main function



● Fire-Protection T 30

Optional function

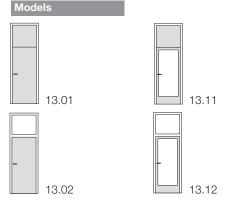


O Smoke-Protection



● Sound-Insulation Rw,P = 37 dB





Performance profile

75 00 11
11
68 18

O)	Rebated	0
Edge	Unrebated	0
ш	Unrebated with jamb rebate	0
	Solid wall	0
Walls	Gasblock concrete wall	0
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
Se	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Ţ	Solid wooden frame	0
	4-sided frame	0



Information





1-leaf door, with top panel

Tender specifications

El₂30-C5

- Plastic material

- Brass-coloured

Colour-coated

For additional technical information please see appendix, indicated with

T 30-1 FORM-Fire-Protection-Door Model 16.01 / 16.11 / 16.02 / 16.12

Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB
- O Burglar-Protection WK 2
- O Burglar-Protection WK 3

Dimensions

🕲 BR-width x BR-height Throat opening

- O Solid wall (M) O Gasblock concrete wall (L) (F) O Gypsum plasterboard wall OF 30-Glazing Type 25 V OWooden elements ≥ F 60B
- OSteel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame O Face expansion <a>® . . .
- . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width 🐿 .
- O Frame for reconstruction
- O Fixed side panel
- O Projecting frame
- O Fineline frame
- O Design in stainless steel
- O4-sided frame O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm − Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O4-sided frame
- O Frame for reconstruction
- O Fixed side panel
- Door leaf

Thickness of door leaf about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)

- Solid door, climate category II
- OSolid door, climate category III
- Stress group E (4) ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
 OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)
- OPyrostop / Allstop laminated glass

Configuration OStandard

- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door OSpecial vision panel size ⊗ mm
- ODecorative beads on glass Glazing beads
- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Rebated and counter-rebated
- with transom
- OFanlight with transom and Fire protection glass

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, Hinge base 3D adjustable

- Rebated/Double-rebated
- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OAdditional 3rd hinge
- Wooden frames
- OHEWI B8107,160 VX, 3-d.

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated/Double-rebated ● VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX
- OAdditional 3rd hinge
- O Concealed hinges
 O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

● VSX 7729/160, 3-d.

OVX 7729/160 3-d

O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S, 3-d.

Unrebated

○◎ . .

- Unrebated ● VSX 7729/160
- O VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges O HEWI B9107.160 VX O Additional 3rd hinge

0 №

OPanic lock, fixed knob on one side

Hinge surface

Galvanised

Stainless steel

Matt nickel-plated

- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment

PZ-lock according to DIN 18250, backset 65 mm

- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
 OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side OFlush handle
- OPanic pushbar
- OSecurity handle-set OCode card handle-set
- Handle surface
- Aluminium
- Stainless steel Plastic material

○◎.....

Door closer Overhead door closers

- according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93 OGEZE TS 3000 OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operators

according to DIN 18263

- OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250
- Floor-mounted door closers according to DIN EN 1154
- OGEZE BTS 550 F
- ODORMA BTS 80 F OGEZE BTS 550 F-G
- Additional options for door closers
- OIntegrated hold-open device OFree-swing function
- OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel Colour-coated
- Special equipment
- OElectrical strike ODoor viewer ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function)

 Osill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel) Ō®
 - On request
- Please fill in

Standard

46



16 N

1-leaf door, with top panel

Performance overview

El₂30-C5 T 30

Main function



• Fire-Protection T 30

Optional function



O Smoke-Protection



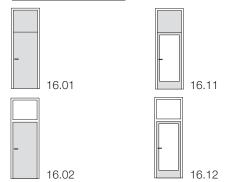
O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-4000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-3968 1718-3468
Dir	Thickness of door leaf	70
	Solid door	0
Ľ	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	O
onfi	Climate category II	•
Ö	Climate category III	0
	Stress group E (4)	•

Super size: On request with a door leaf width of up to 2000 mm!





ø.	Rebated	0
Edge	Unrebated with jamb rebate	О
ш	Double-rebated	О
	Solid wall	0
S	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	О
	Glazing Type 25 V	О
	Steel frame	0
S	Wooden wrap-around frame	О
Frames	Wooden block frame	О
Ŗ	Solid wooden frame	О
	4-sided frame	0





1-leaf door, with top panel

Tender specifications

El₂30-C5

Information

For additional technical information please see appendix, indicated with

T 30-1 FORM-Fire-Protection-Door Model 5.01 / 5.11 / 5.02 / 5.12

• Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
 O Sound-Insulation Rw,P = 45 dB
 Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB OBurglar-Protection WK 2
- OBurglar-Protection WK 3
- Dimensions

					Е	3F	₹-	٧	/i	dt	th	X			BR-heig
															Throat opening

Walls

- O Solid wall (M) OGasblock concrete wall (M) OGypsum plasterboard wall L) OF 30-Glazing Type 25 V
- OWooden elements ≥ F 60B OSteel elements ≥ F 60A
- Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🦠 . O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- OProjecting frame
- O Required face width 🕲 .../...mm
- O Frame for reconstruction
- O Fixed side panel O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

48

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm
- respectively 70/95 mm Standard installation

- Installation in hallways
 Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf

Thickness of door leaf about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)

- one-/two-sided

- with coffer up to Rw,P = 37 dB with frame-like and/or fielded additional wood panelling

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVeneer edge
- OColour-coated edge

Vision panel

- Type of glass

- Configuration

- O Decorative beads on glass **Glazing beads**O Solid wood veneered

- OSolid wood

OTop panel

- Counter-rebated (Double-rebated)
- OFanlight with transom and Fire protection glass consisting of Pyrostop-Phonstop-laminated glass

Door leaf / Top panel / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Three-roll-hinges, 2 pieces, 160 mm,

Unrebated

VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge

Unrebated

VSX 7729/160

O VX 7729/160

O BSW 060-22 VX O VIELER ER.TB.160.332.S

O Concealed hinges

O HEWI B9107.160 VX

O Additional 3rd hinge

O BSW 060-22 VX, 3-d.
O VIELER ER.TB.160.332.S, 3-d.

O HEWI B9107,160 VX, 3-d.

- hinge base 3D adjustable
- VX 7939/160, 3-d.

- Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OHEWI B8107.160 VX, 3-d.
- Wooden frames
- Rebated/Double-rebated for Rw,P = 42 dB
- VSX 7939/160 Ovx 7939/160 OBSW 060-21 VX
- OHEWI B8107.160 VX

- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling,
- OStyle door
- with profile beadswith panel up to Rw,P = 37 dB
- ODoor with vision panel

- OPU-edge
- OPlastic material edge

- Pyrostop-Phonstop 30-17 (clear glass)
 Pyrostop-Phonstop 30-17 (patterned glass 504)
 Pyrostop / Allstop laminated glass
- **O**Standard
- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
 OSpecial vision panel size

 mm
- OIntermediate frieze ≥ 60 mm

- OAluminium untreated/anodized OStainless steel (porthole Ø 350 mm)

- with transom

Hinges

- Steel frames
- Rebated/Double-rebated for Rw,P = 42 dB
- OBSW 060-21 VX, 3-d. for Rw,P = 37 dB
- VSX 7939/160, 3-d.
- OVIELER ER.TB. 160.337.F, 3-d.
- OAdditional 3rd hinge
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)
- VX 7939/160 FD OBSW 060-21 VX FD for Rw,P = 37 dB
- OVIELER ER.TB.160.337.F Additional 3rd hinge

- Hinge surface
- Galvanised - Plastic material - Brass-coloured
- Matt nickel-plated Stainless steel - Colour-coated

- PZ-lock according to DIN 18250,
- backset 65 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks OLock with special security equipment
- OTriple bolting OCode card lock system

Forend surface

- Galvanised Stainless steel Brass-plated
- Handles
- 9 mm spindle ◆FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate with rosette
- with rectangular backplate with long backplate
- OKnob-lever-set, fixed knob on one side OPanic pushbar

OSecurity handle-set OCode card handle-set

- Handle surface
- Aluminium Stainless steel Plastic material
- Door closer

О፟

- Overhead door closers
- according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93

OGEZE TS 3000 OGEZE TS 5000 ODORMA ITS 96 / GEZE Boxer

- **Automatic door operators** according to DIN 18263

OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

- Floor-mounted door closers
- according to DIN EN 1154
- OGEZE BTS 550 F ODORMA BTS 80 F
- OGEZE BTS 550 F-G Additional options for door closers
 Olntegrated hold-open device
 OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector
- Door closer surface
- Silver-coloured Stainless steel
- Colour-coated Special equipment
- Retractable bottom seal OClimate category III
- OElectrical strike ODoor viewer
- OBlock lock OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition
- OKick plate (aluminium/stainless steel)

OSecurity bolts

- Please fill in
- On request
- Standard



1-leaf door, with top panel

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



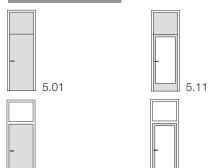
- O Sound-Insulation Rw,P = 45 dB Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB



- O Burglar-Protection WK 2
- O Burglar-Protection WK 3



Models



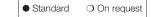
Performance profile

5.02

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-3468 1718-2968
Din	Thickness of door leaf	70
	Solid door	О
ion	Door with vision panel	0
ırat	Style door (profile beads)	О
Configuration	Climate category II	•
S	Climate category III	O
	Stress group E (4)	•

σ.	Rebated	0
Edge	Unrebated with jamb rebate	0
ш	Double-rebated	0
	Solid wall	0
Walls	Gasblock concrete wall	0
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Ţ.	Solid wooden frame	0
	4-sided frame	0







1-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with

(F

T 30-1 FORM-Fire-Protection-Door Model 35.02 / 35.12

Approval

Approval No. DIBt. Z-6.20-2077

OCE-label according to DIN EN 14351-1 (external doors), applied for approval

Optional function

- O Smoke-Protection Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB
- OBurglar-Protection WK 2
- OBurglar-Protection WK 3
- Climate sturdiness Climate category IV
- Protection against cold/heat insulation $U = 1.38 \frac{W}{m^* \cdot K}$ (SD 42)

 - $U = 1,31 \frac{W}{m^* \cdot K}$ (SD 37 / SD 32)
- Seal impermeability
 - $a < 1.0 \frac{m'}{h \cdot m} da Pa^{2/3}$

Dimensions

🕲 BR-width x BR-height Throat opening

- O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall
- OF 30-Glazing Type 25 V OWooden elements ≥ F 60B
- OSteel elements ≥ F 60A

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

Solid wooden frame, 70/95 mm,

- aluminium stop rail
- Standard installation
- Installation in front of wall opening
- Projecting installation

Door leaf

Thickness of door leaf about 70 mm

- Double-rebated (D)
- Solid door, climate category IV
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beadswith frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Solid wood batten, white/red wood, 3-sided

OColour-coated edge

Vision panel

Type of glass

Pyrostop 30-27 / THS (clear glass)

Oln combination with Pyrostop 30-10 with different functional glass, depending on purpose

Configuration

- **O**Standard
- OFramed glazing OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

OFanlight with transom and combination of Pyrostop 30-10 with different functional glass, depending on purpose

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating HPL 0500 A
- OColour-coated
- OColour-scumbled

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Double-rebated ● VX 7939/160 FD
- OBSW 060-21 VX FD
- OAdditional 3rd hinge

Hinge surface

- - Galvanised Plastic material
- Matt nickel-plated Stainless steel
- Brass-coloured - Colour-coated

 PZ-lock according to DIN 18250, backset 80 mm,

- OPanic lock, fixed knob on one side OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

El₂30-C5

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black

OFS-handles according to DIN 18273

- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closers according to DIN EN 1154

- GEZE TS 4000 / DORMA TS 73 DORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operators according to DIN 18263

- OGEZE TSA 160 NT F OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel Colour-coated
- O®

- Special equipment Retractable bottom seal
- OElectrical strike
- ODoor viewer
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

50



35 N

1-leaf door, with top panel

Performance overview

El₂30-C5 T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



- Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3

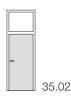


 Climate sturdiness, protection against cold/ heat insulation

Note

Door element for external use; for not directly weather exposed locations.

Models





35.12

Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	681-1306 2128-3128
Dimensions	Clear passage LD-width Clear passage LD-height Clear passage (door) height	531-1156 1953-2953 1718-2218
Ωį	Thickness of door leaf	70
n	Solid door	0
atio	Door with vision panel	0
gur	Style door (profile beads)	0
Configuration	Climate category IV	•
S	Stress group E (4)	•

Edge	Double-rebated	•
	Solid wall	0
Walls	Gasblock concrete wall	О
Wa	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
Frame	Solid wooden frame	•

Schörghuber







1-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with

T 30-1 FORM-Fire-Protection-Door Model 10.01 / 10.11 / 10.02 / 10.12

Approval No. DIBt. Z-6.20-2040

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

BR-width x BR-height Throat opening

- O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L) OF 30-Glazing Type 25 V O Wooden elements ≥ F 60B
- O Steel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mmwithout floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame.
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🐿 /. mm
- O Decorative rebated frame, rebate depth mm
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening Trapezoid anchor fastening
- O Required face width 🐿 .
- . /. . . . mm
- OFrame for reconstruction
- O Projecting frame
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- O Wooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/75 mm
- O Solid wooden frame, 70/110 mm - Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O4-sided frame
- O Frame for reconstruction

Thickness of door leaf about 110 mm,

- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II

● Stress group E (4)

- O Door with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Visible solid wood edge band, 3-sided
- OColour-coated edge

Vision panel

- Type of glass
- Pyrostop-Phonstop 30-17 (clear glass)OPyrostop-Phonstop 30-17 (patterned glass 504)
- OPyrostop / Allstop laminated glass

Configuration

- **O**Standard
- OFramed glazing
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
 OSpecial vision panel size ♥ mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Top panel

- OTop panel
- Counter-rebated and double-rebated
- with transom
- OFanlight with transom and Fire protection glass

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

Unrebated

VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge

Unrebated

● VX 7729/160

O BSW 060-22 VX

O Concealed hinges

O HEWI B9107.160 VX

O Additional 3rd hinge

OVIELER ER.TB.160.332.S

 \bigcirc BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S. 3-d.

O HEWI B9107.160 VX. 3-d.

hinge base 3D adjustable

- Double-rebated
- for Rw,P = $45 \, dB/42 \, dB$ Ovx 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d for Rw,P = 37 dB/32 dB
- VX 7939/160, 3-d. OBSW 060-21 VX. 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Double-rebated
- for Rw,P = $45 \, dB/42 \, dB$
- Ovx 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = $37 \, dB/32 \, dB$ • VX 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX
- OAdditional 3rd hinge Hinge surface
- Plastic material - Brass-coloured
- Galvanised Matt nickel-plated Stainless steel

- PZ-lock according to DIN 18250,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting

- Galvanised

Handles

- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with rosette

- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set

OCode card handle-set

- Aluminium
- Stainless steel

Overhead door closers according to DIN EN 1154

- GEZE TS 4000 / DORMA TS 73

Automatic door operators

- OGEZE TSA 160 NT F
- Floor-mounted door closers
- OGEZE BTS 550 F
- ODORMA BTS 80 F
- Additional options for door closers
- OIntegrated hold-open device with smoke detector
- Door closer surface

- Colour-coated
- Special equipment
- OElectrical strike
- OBolt contact
- OCable channel OConcealed cable transition
- OKick plate (aluminium/stainless steel)

El₂30-C5

backset 80 mm,

OCode card lock system Forend surface

- Stainless steel
- Brass-plated
- 9 mm spindle
- with short backplate
- with rectangular backplate
- with long backplate
- OFlush handle
- Handle surface
- Plastic material
- Door closer
- ODORMA TS 83
- ODORMA TS 93 OGEZE TS 5500 ODORMA ITS 96 / GEZE Boxer

according to DIN 18263

- OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250
- according to DIN EN 1154
- OGEZE BTS 550 F-G
- OIntegrated hold-open device OFree-swing function
- OExternal smoke detector
 - Silver-coloured Stainless steel
- 2 Retractable bottom seal
- ODoor viewer ORetractable bottom seal OBlock lock
- OMagnetic contact
- OSecurity bolts



1-leaf door, with top panel

Performance overview

El₂30-C5

T 30

Main function



• Fire-Protection T 30

Optional function



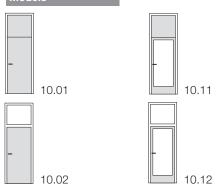
O Smoke-Protection



- O Sound-Insulation Rw,P = 45 dB O Sound-Insulation Rw,P = 42 dB
- \odot Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	750-1500 2000-5000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	656-1406 1953-4953 1703-3453
٩	Thickness of door leaf	110
	Solid door	О
tion	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	О
Cor	Climate category II	•
	Stress group E (4)	•

Edge	Double-rebated	0
Ed	with double jamb rebate	0
Walls	Solid wall	О
	Gasblock concrete wall	О
	Gypsum plasterboard wall	О
	Glazing Type 25 V	О
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Information





1-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with

T 30-1 FORM-Fire-Protection-Door Model 25.11 / 25.12

Approval

Approval No. DIBt. Z-6.20-2007

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

Dimensions

B					E	Ś۲	۲-	M	//	aı	ın	1	Х						E	٥I	Η.	-n	ei	gr	ηt
																Γŀ	٦ľ	O	at	t	0	ре	en	in	g

Walls

- O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L) OF 30-Glazing Type 25 V OWooden elements ≥ F 60B
- OSteel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame.
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame O Face expansion <a>® . . .
- . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening Trapezoid anchor fastening
- O Projecting frame
- O Fineline frame
- O Required face width land .../...mm
- O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

54

- ○Wooden block frame, architrave 45/60 mm○ Solid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Frame thickness 73/95 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
- OPyrostop 30-12 (patterned glass 504)
- OPyrostop-Phonstop 30-17 (clear glass)
- OPyrostop-Phonstop 30-17 (patterned glass 504)
- OContraflam 30-N2
- OContraflam 30-N2 ISO

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm
- Owithout middle frieze, minimum frame widths side/top/bottom ≥ 105 mm,
- door rebate dimension over 1100 mm with bottom frieze 195 mm,
- on request with cross bar ≥ 70 < 150 mm, on
- request with intermediate frieze \geq 150 < 280 mm

ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

Top panel

- OTop panel
- Rebated and counter-rebated
- with transom
- OFanlight with transom and Fire protection glass

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Rebated
- VSX 7939/160, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- O 🕲

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated ● VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge

- Unrebated
- VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S. 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

- Unrebated
- VSX 7729/160 O VX 7729/160
- O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges O HEWI B9107.160 VX
- O Additional 3rd hinge

El₂30-C5

Hinge surface

- Galvanised - Plastic material
- Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm
- OLock for narrow style doors
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side OPanic pushbar
- OSecurity handle-set

OCode card handle-set Handle surface

- Aluminium
- Stainless steel
- Plastic material O[®].....

Door closer

Overhead door closers

- according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83

- ODORMA TS 93 OGEZE TS 3000 OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer

Automatic door operators according to DIN 18263

- OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

Floor-mounted door closers

- according to DIN EN 1154
- OGEZE BTS 550 F
- ODORMA BTS 80 F OGEZE BTS 550 F-G
- Additional options for door closers OIntegrated hold-open device OFree-swing function
- OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel Colour-coated
- O[©].....
- Special equipment OElectrical strike ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function)
- OSill seal with aluminium threshold OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Standard
 - On request
- Please fill in



25 N

1-leaf door, with top panel

Performance overview

El₂30-C5 T 30

Main function



Fire-Protection T 30

Optional function

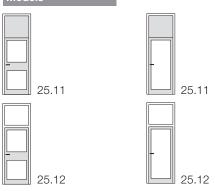


O Smoke-Protection



- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB





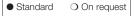
Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-5000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-4968 1718-3718
Dir	Thickness of door leaf	73/95
a-	Solid wood framed door	0
Configura- tion	Solid wood framed style door (coffer, panel, panel version II)	О
ŏ	Climate category II	•
Edge	Rebated	0
Ed	Unrebated with jamb rebate	0

	Solid wall	0
<u>s</u>	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
န္	Wooden wrap-around frame	О
Frames	Wooden block frame	0
포	Solid wooden frame	0
	4-sided frame	0



Information





2-leaf door

Tender specifications

El₂30-C5

Information

For additional technical information please see appendix, indicated with

T 30-2 FORM-Fire-Protection-Door /-Flap Model 4.00 / 4.10 / 4.00 KL / 4.10 KL

Approval No. DIBt. Z-6.20-1934

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB
- OWet Room Door NT
- O Radiation-Protection

Dimensions

				Е	3F	₹-	W	/ic	dt	th)	X				BR-height
(2)																Throat opening

NAC 11

walls	
O Solid wall	(N
O Gasblock concrete wall	(N
OGypsum plasterboard wall	(l
OF 30-Glazing Type 25 V	(F
OWooden elements ≥ F 60B	

O Steel elements ≥ F 60A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm - Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion 🕲 / mm O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Face screw fasteningAdapter fastening
- Trapezoid anchor fastening
- O Required face width 🧠 . . . /. . . . mm
- OProjecting frame
- O Fineline frame
- O Sports hall frame
- O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm Standard installation
- Installation in hallways
- Installation in front of wall opening
 Projecting installation
 OFrame for reconstruction
- O Fixed side panel
- O4-sided frame

Thickness of door leaf about 50 mm, rebated meeting stiles with rabbet ledge on push side

56

- Rebated (F)Unrebated (S)

Solid door, climate category II

- Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- Arched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
- OPyrostop 30-12 (patterned glass 504)

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- OIntermediate frieze ≥ 60 mm

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

- VSX 7939/160, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX. 3-d.
- OVELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OSpring hinge FHX 7939/160, 3-d. O HEWI B9107.160 VX, 3-d. (only inactive leaf)
- O Concealed hinges

- OAdditional 3rd hinge

Wooden frames Three-roll-hinges, 2 pieces, 160 mm,

- hinge base 3D adjustable (VHX) Rebated
- VSX 7939/160 VX 7939/160
- OBSW 060-21 VX
- Unrebated ● VSX 7729/160 O VX 7729/160
- OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OSpring hinge FHX 7939/160
- OAdditional 3rd hinge
- Hinge surface Galvanised Matt nickel-plated
- Plastic material Brass-coloured

Unrebated

● VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O Additional 3rd hinge

O BSW 060-22 VX

O Concealed hinges

O HEWI B9107.160 VX

O Additional 3rd hinge

O VIELER ER.TB.160.332.S

O Spring hinge FHX 7729/160 (only inactive leaf)

O BSW 060-22 VX. 3-d.

OVIELER ER.TB.160.332.S, 3-d.

O Spring hinge FHX 7729/160, 3-d.

Stainless steel Colour-coated

Spring hinge surface

- Galvanised
- Matt nickel-plated Colour-coated
- Matt chrome-plated

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate with long backplate
- One-sided lever set
- OKnob-lever-set OPanic pushbar
- OSecurity handle-set

OCode card handle-set

- Handle surface
- Aluminium Stainless steel

Plastic material

Door closer Overhead door closers

- according to DIN EN 1154 GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS
 ODORMA ITS 96 / GEZE Boxer GSR
 Automatic door operators

- according to DIN 18263
- On active leaf
- On active and inactive leaf
- OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS
 ODORMA ED 200 GSR / CD 400 GSR

Floor-mounted door closers

- according to DIN EN 1154 OGEZE BTS 550 IS
- OGEZE BTS 550 IS-G Spring hinge (Inactive leaf)
- Additional options for door closers
 OIntegrated hold-open device
 OFree-swing function for active leaf
 OIntegrated hold-open device
- with smoke detector

OExternal smoke detector

- Door closer surface
- Silver-coloured Stainless steel - Colour-coated
- OClimate category III
- OElectrical strike ODoor viewer
- OBolt contact
- OMagnetic contact
- OConcealed cable transition
- OSecurity bolts
- Standard On request
- Please fill in

- Special equipment
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function) OBlock lock
- OCable channel
- OKick plate (aluminium/stainless steel)



2-leaf door

Performance overview

El₂30-C5

T 30

Main function



• Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 32 dB



O Wet Room (NT)



O Strahlenschutz





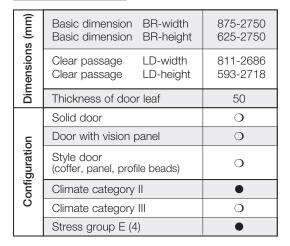


Flap 4.00 KL



Flap 4.10 KL

Performance profile



Edge	Rebated	0
Ед	Unrebated	0
	Solid wall	0
Walls	Gasblock concrete wall	О
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
ပ္သ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
뇹	Solid wooden frame	О
	4-sided frame	0

Fire-Protection-Doors







4 N-PT

2-leaf swing door

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 4.00-PT / 4.10-PT

Applied for approval

Dimensions

				Е	3F	₹-	V	νi	dt	th		X				BR-height
																Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
OF 30-Glazing Type 25 V
OWooden elements ≥ F 60B

Wooden frames

OSteel elements ≥ F 60A

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) OSolid wooden frame, 70/73 mm

- Standard installation
- Installation in hallways
- O Frame for reconstruction
- O Fixed side panel

Door leaf

Thickness of door leaf about 50 mm,

- Unrebated (S)
- Solid door, climate category II
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional
- wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OVeneer edge
- OColour-coated edge 0......

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- OStandard

- Orlamed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- OIntermediate frieze ≥ 60 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Door leaf hinging

DORMA swing door hardware

Handles

Push handle Push plate surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 IS

Additional options for door closers

OIntegrated hold-open device

Door closer surface - Silver-coloured

- Stainless steel
- Colour-coated

Special equipment

- OClimate category III
- OKick plate (aluminium/stainless steel)



4 N-PT

2-leaf swing door

Performance overview

El₂30-C5

T 30

Main function



• Fire-Protection T 30



Models



4.00-PT



4 40 DT

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-1875 1750-2250
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	811-1625 593-2218
٥	Thickness of door leaf	50
	Solid door	0
ion	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
Cor	Climate category II	•
	Climate category III	0

Edge	Rebated	0
	Solid wall	О
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frame	Solid wooden frame	0



Brandschutz-Türen



2-leaf door

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door /-Flap Model 14.00 / 14.10 / 14.00 KL / 14.10 KL

Approval No. DIBt. Z-6.20-1934

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 37 dB
- O Radiation-Protection

🕲 BR-width x BR-height

- O Solid wall
- O Gasblock concrete wall O Gypsum plasterboard wall (M)(L) (F)
- OF 30-Glazing Type 25 V O Wooden elements ≥ F 60B
- OSteel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall: - Backbend 9 mm

- Gypsum plasterboard wall:
- Backbend 15 mmwithout floor recess
- Floor recess 30 mm O Steel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways

- ORound-shaped frame
 OFace expansion \$\simeq \cdots
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Face screw fastening
- Adapter fastening
 Trapezoid anchor fastening
- O Required face width 🧠 . . . /. . . . mm
- OProjecting frame
- O Fineline frame
- O Sports hall frame
- O Frame for reconstruction O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Thickness of door leaf about 50 mm,

rebated meeting stiles with rabbet ledge on push side

60

- Rebated (F)
- Unrebated (S)

- Solid door, climate category II
- Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

- Type of glass
- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)
- Configuration

- **O**Standard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- OIntermediate frieze ≥ 60 mm
- ① Decorative beads on glass
- Glazing beads
- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OSpring hinge FHX 7939/160, 3-d. (only inactive leaf)
- OAdditional 3rd hinge
- Unrebated VSX 7729/160, 3-d.
- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. OVIELER ER.TB.160.332.S. 3-d.
- O Concealed hinges
- OHEWI B9107.160 VX, 3-d. O Spring hinge FHX 7729/160, 3-d. (only inactive leaf)
- O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated
- VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107 160 VX OSpring hinge FHX 7939/160
- OAdditional 3rd hinge
- Unrebated
- VSX 7729/160 O VX 7729/160 O BSW 060-22 VX
- O VIELER ER.TB.160.332.S
- O Concealed hinges
 O HEWI B9107.160 VX
- O Spring hinge FHX 7729/160
- O Additional 3rd hinge

Hinge surface

- Galvanised Matt nickel-plated Stainless steel
- Plastic material Brass-coloured
- Colour-coated

Spring hinge surface

- Galvanised
- Matt nickel-plated Colour-coated
- Matt chrome-plated

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette with rectangular backplate
- with long backplate One-sided lever set
- OKnob-lever-set
- OPanic pushbar OSecurity handle-set

OCode card handle-set

- Handle surface
- Aluminium Stainless steel
- Plastic material

○◎ . . . Door closer

Overhead door closers

- according to DIN EN 1154
- GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operators according to DIN 18263

- On active leaf
- On active and inactive leaf
- OGEZE TSA 160 NT F-IS OGEZE Slimdrive EMD F-IS ODORMA ED 200 GSR / CD 400 GSR
- Floor-mounted door closers
- according to DIN EN 1154 OGEZE BTS 550 IS
- OGEZE BTS 550 IS-G
- Spring hinge (Inactive leaf)
 Additional options for door closers OIntegrated hold-open device OFree-swing function for active leaf
- OIntegrated hold-open device with smoke detector
- External smoke detector Door closer surface
- Silver-coloured Stainless steel
- Colour-coated
- Special equipment Retractable bottom seal
- OClimate category III OElectrical strike
- ODoor viewer OBlock lock OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)
- Standard
- O On request
- Please fill in



2-leaf door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



Sound-Insulation Rw,P = 37 dB



O Radiation-Protection

Models



14.00



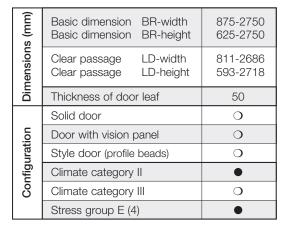
Flap

14.00 KL



Flap 14.10 KL

Performance profile



Edge	Rebated	0
Ed	Unrebated	О
	Solid wall	0
Walls	Gasblock concrete wall	О
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
န္	Wooden wrap-around frame	О
Frames	Wooden block frame	0
ᇤ	Solid wooden frame	0
	4-sided frame	0



Information







2-leaf door

Tender specifications

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door /-Flap Model 26.00 / 26.10 / 26.00 KL / 26.10 KL

• Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB
- O Burglar-Protection WK 2
- O Radiation-Protection

Dimensions

					Е	3F	₹-	V	۷İ	d:	th	1	Х			BR-height
																Throat opening

Trano	
O Solid wall	
O Gasblock concrete wall	
O Gypsum plasterboard wall	
OF 30-Glazing Type 25 V	
OWooden elements ≥ F 60B	
O Steel elements ≥ F 60A	

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm - Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Sports hall frame
- O Steel block frame
- Standard installation Installation in hallways
- O Round-shaped frame OFace expansion

 .
- . /. mm O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width 🧠 . . . /. . . . mm
- OProjecting frame
- O Fineline frame
- OFrame for reconstruction
- O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

62

- OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Thickness of door leaf about 70 mm, meeting stiles with single rebate

Rebated (F)

- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
- O Solid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel
- OSports hall door

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- О‱.....

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
- OPyrostop 30-12 (patterned glass 504) OPyrostop / Allstop laminated glass

Configuration

- **O**Standard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass
- Glazing beads OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Rebated/Double-rebated
- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OVELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- Wooden frames Three-roll-hinges, 2 pieces, 160 mm,
- Rebated/Double-rebated VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB. 160.337.F OHEWI B8107.160 VX OAdditional 3rd hinge
- VSX 7729/160, 3-d. O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d.

Unrebated

- O Concealed hinges
- O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

hinge base 3D adjustable (VHX) Unrebated

- VSX 7729/160 O VX 7729/160 O BSW 060-22 VX
- OVIELER ER.TB.160.332.S O Concealed hinges O HEWI B9107.160 VX

Hinge surface

○

- Galvanised Plastic material
- Matt nickel-plated Stainless steel
- Brass-coloured Colour-coated

O Additional 3rd hinge

● PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock

El₂30-C5

- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate with rosette
- with rectangular backplate
- with long backplate
- One-sided lever set
- OKnob-lever-set OSports hall handles (flush)
- OPanic pushbar
- OSecurity handle-set
 OCode card handle-set
- Handle surface Aluminium Stainless steel
- Plastic material

Door closer

- Overhead door closers according to DIN EN 1154 GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operators according to DIN 18263

- On active leaf
- On active and inactive leaf
- OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS ODORMA ED 200 GSR / CD 400 GSR
- Floor-mounted door closers according to DIN EN 1154
- OGEZE BTS 550 IS
- OGEZE BTS 550 IS-G Additional options for door closers
- OIntegrated hold-open device OFree-swing function for active leaf OIntegrated hold-open device
- with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel Colour-coated
- OElectrical strike ODoor viewer ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function)
- OBlock lock
- OBolt contact
 OMagnetic contact
- OCable channel OConcealed cable transition

Special equipment

- OKick plate (aluminium/stainless steel)
- Standard On request Please fill in



Schörghuber

26 N

2-leaf door

Performance overview

El₂30-C5

T 30

Main function



● Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2



O Radiation-Protection

Models



26.00





Flap 26.00 KL



Flap 26.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 625-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 593-3468
Din	Thickness of door leaf	70
	Solid door	O
ے	Door with vision panel	О
Configuration	Style door (coffer, panel, profile beads)	0
onfiç	Climate category II	•
ŏ	Climate category III	0
	Stress group E (4)	•

Super size: On request with a door leaf width of up to 2000 mm!

Information

For additional technical information please see appendix, indicated with i





σ.	Rebated	0
Edge	Unrebated with jamb rebate	О
3	Double-rebated	0
	Solid wall	0
S I	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
	Steel frame	0
	Sports hall frame	0
Frames	Wooden wrap-around frame	0
Frar	Wooden block frame	0
_	Solid wooden frame	0
	Aluminium frame	0

Standard O On request



26 N GLT

2-leaf door, reversed

Tender specifications

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 26.00 GLT / 26.10 GLT

• Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB

Dimensions

					В	BF	ξ-	W	۷İ	ď	th	1	Х			BR-height
																Throat opening

(O Solid wall
(OGasblock concrete wall
(OGypsum plasterboard wa
(OF 30-Glazing Type 25 V
(OWooden elements ≥ F 60
(OSteel elements ≥ F 60A

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- O Solid wooden frame, 70/73 mm
- Standard installation
 Installation in hallways
 front of v
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel

Thickness of door leaf about 70 mm, meeting stiles with single rebate

- Unrebated with jamb rebate (S)
- Solid door, climate category II
- OSolid door, climate category III Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel with coffer
- with frame-like and/or fielded additional
- wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- ○Visible solid wood edge band, 2-,3-,4-sided ○PU-edge ○Veneer edge

- OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- **O**Standard
- OFramed glazing

- OAccording to DIN 68706

 OVision panel, 215/1015 mm

 OPorthole Ø 350, 400, 500 and 650 mm OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VSX 7729/160
- Ovx 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OConcealed hinges
 OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Plastic material Matt nickel-plated
- Stainless steel
- Brass-coloured

PZ-Shot-bolt lock on both leafs

El₂30-C5

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-lever set according to DIN 18273,
- one-sided, on both leafs
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- ○◎.....

Door closer

Overhead door closers

- according to DIN EN 1154

 GEZE TS 5500 / DORMA TS 93
- OGEZE TS 4000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F

- OGEZE BTS 550 F-G
- ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
 OIntegrated hold-open device
- with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated O[©].....

Special equipment

- ODoor viewer
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



26 N GLT

2-leaf door, reversed

Performance overview

El₂30-C5

T 30

Main function



• Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 32 dB



Models



26.00 GLT



26.10 GLT

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1461-2586 1793-2543
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1311-2436 1718-2468
Din	Thickness of door leaf	70
	Solid door	О
_	Door with vision panel	О
Configuration	Style door (coffer, panel, profile beads)	0
onfie	Climate category II	•
ŏ	Climate category III	0
	Stress group E (4)	•

Edge	Unrebated with jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frame	Solid wooden frame	•



Information





2-leaf door

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with

T 30-2 FORM-Fire-Protection-Door /-Flap Model 6.00 / 6.10 / 6.00 KL / 6.10 KL

Approval

Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
 O Sound-Insulation Rw,P = 37 dB
- O Burglar-Protection WK 2
 O Radiation-Protection

	nsi		

BR-width x BR-height Throat opening

Walls

O Solid wall (M) O Gasblock concrete wall $\dot{(M)}$ O Gypsum plasterboard wall (L) (F) OF 30-Glazing Type 25 V OWooden elements ≥ F 60B

O Steel elements ≥ F 60A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 15 mmwithout floor recess Backbend 9 mm - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm

- O Steel block frame
 Standard installation
 Installation in hallways
- O Round-shaped frame
- OFace expansion 🐿 . . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
 O Frame for installation in existing walls
 Adapter fastening
- Trapezoid anchor fastening
- O Required face width 🕲 . . . / . . . mm
- OProjecting frame
- O Sports hall frame
- O Frame for reconstruction O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

OWooden block frame, architrave 45/60 mm

- O Solid wooden frame, 70/73 mm
- respectively 70/95 mm Standard installation
- Installation in hallways
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame
- O.

Thickness of door leaf about 70 mm, meeting stiles double-rebated

66

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II.
- Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door

- with profile beads
 with panel up to Rw,P = 37 dB
 with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OColour-coated edge

Type of glass

- Pyrostop-Phonstop 30-17 (clear glass)
 Opyrostop-Phonstop 30-17 (patterned glass 504)
 Opyrostop / Allstop laminated glass

- OAccording to DIN 68706 OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm OOn site coating/undercoating foil
- OColour-coated

Steel frames

- Three-roll-hinges, 2 pieces, 160 mm,

- OHEWI B8107.160 VX, 3-d.
- Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm,
- VX 7939/160 FD
- VSX 7939/160 Ovx 7939/160
- OHEWI B8107.160 VX

- **Edges**
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OPlastic material edge

Vision panel

- Configuration
- **O**Standard OFramed glazing

- OVeneer
- Stained/transparently coated

Hinges

- hinge base 3D adjustable
- Rebated/Double-rebated
- for Rw,P = 42 dB
 vx 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB

 VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OAdditional 3rd hinge
- hinge base 3D adjustable (VHX)
- OBSW 060-21 VX FD for Rw,P = 37 dB
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OAdditional 3rd hinge

- Unrebated
- VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge
- Rebated/Double-rebated Unrebated for Rw,P = 42 dB

 Unrebated

 vsx 7729/1 ● VSX 7729/160 ○ VX 7729/160
 - O BSW 060-22 VX O VIELER ER.TB.160.332.S O Concealed hinges O HEWI B9107.160 VX
 - O Additional 3rd hinge 0

- Hinge surface
- Galvanised - Plastic material Matt nickel-plated
- Brass-coloured Stainless steel - Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever OPanic lock in both leafs, inactive leaf
- with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever OTriple bolting
- OCode card lock system Forend surface
- Galvanised

- Stainless steel

- Brass-plated Handles
- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette with rectangular backplate
- with long backplate One-sided lever set
- OKnob-lever-set OPanic pushbar
- OSecurity handle-set
 OCode card handle-set Handle surface - Aluminium
- Stainless steel Plastic material

- Door closer
- Overhead door closers
- according to DIN EN 1154

 GEZE TS 5500 IS / DORMA TS 93 GSR OGEZE TS 4000 IS

OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR

- Automatic door operators according to DIN 18263 On active leaf
- On active and inactive leaf OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS
 ODORMA ED 200 GSR / CD 400 GSR
 Floor-mounted door closers
 according to DIN EN 1154
 OGEZE BTS 550 IS

- OGEZE BTS 550 IS-G
- Additional options for door closers OIntegrated hold-open device OFree-swing function for active leaf OIntegrated hold-open device
- with smoke detector OExternal smoke detector
- Door closer surface Silver-coloured Stainless steel
- Special equipment
- Retractable bottom seal OClimate category III

Colour-coated

- OElectrical strike ODoor viewer OBlock lock
- OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)

Standard

- - On request
- Please fill in



2-leaf door

Performance overview

El₂30-C5 T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB



O Burglar-Protection WK 2



O Radiation-Protection

Models



6.00





Flap 6.00 KL



Flap 6.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 625-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 593-2968
Din	Thickness of door leaf	70
	Solid door	О
ion	Door with vision panel	0
Configuration	Style door (profile beads)	0
ηfigi	Climate category II	•
S	Climate category III	О
	Stress group E (4)	•

4)	Rebated	0
Edge	Unrebated with jamb rebate	0
3	Double-rebated	0
	Solid wall	О
Walls	Gasblock concrete wall	0
N ₈	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
	Steel frame	О
န္တ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
ᇤ	Solid wooden frame	0
	4-sided frame	0



Information







2-leaf door, reversed

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 6.00 GLT / 6.10 GLT

Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 37 dB

🕲 BR-width x BR-height Throat opening

O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L) (F) OF 30-Glazing Type 25 V OWooden elements ≥ F 60B

OSteel elements ≥ F 60A Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- O Solid wooden frame, 70/73 mm
- Standard installation
 Installation in hallways
 front of v
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel

Thickness of door leaf about 70 mm, meeting stiles with single rebate

- Unrebated with jamb rebate (S) Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided

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- OPU-edge
- OVeneer edge
- OPlastic material edge OColour-coated edge

Vision panel

Type of glass

- Pyrostop-Phonstop 30-17 (clear glass)
- OPyrostop-Phonstop 30-17 (patterned glass 504)

Configuration

- **O**Standard
- OFramed glazing

- OAccording to DIN 68706
 OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VSX 7729/160
- Ovx 7729/160
- OBSW 060-22 VX OVIELER ER.TB.160.332.S
- OConcealed hinges
 OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Matt nickel-plated Stainless steel
- Plastic material - Brass-coloured

PZ-Shot-bolt lock on both leafs

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-lever set according to DIN 18273,
- one-sided, on both leafs
- with long backplate
- OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- O[©].....

Door closer

Overhead door closers

according to DIN EN 1154 • GEZE TS 5500 / DORMA TS 93 • GEZE TS 4000

- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closers according to DIN EN 1154

- OGEZE BTS 550 F OGEZE BTS 550 F-G
- ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated ○◎.....

Special equipment

- ODoor viewer ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OClimate category III
- OBlock lock
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



6 N GLT

2-leaf door, reversed

Performance overview

El₂30-C5 T 30

Main function



• Fire-Protection T 30

Optional function



O Smoke-Protection



Sound-Insulation Rw,P = 37 dB



O Radiation-Protection

Models



6.00 GLT



5.10 GLT

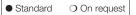
Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1461-2586 1793-2543
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1311-2436 1718-2468
٦	Thickness of door leaf	70
	Solid door	0
<u>io</u>	Door with vision panel	0
ırat	Style door (profile beads)	0
Configuration	Climate category II	•
So	Climate category III	О
	Stress group E (4)	•

Едде	Unrebated with jamb rebate	•
Walls	Solid wall	0
	Gasblock concrete wall	0
	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
Frame	Solid wooden frame	•



Information





2-leaf door

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 20.00 / 20.10

Approval No. DIBt. Z-6.20-2040

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

Æ					Е	3F	₹-	٧	νi	ď	th	ì	Х			BR-height
A																Throat opening

Solid wall
Gasblock concrete wall
Gypsum plasterboard wall
F 30-Glazing Type 25 V
Wooden elements ≥ F 60B
Steel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/17 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🕲 /. mm O Decorative rebated frame, rebate depth mm
- O Expansion joint frame
- O Frame for installation in existing walls

 Adapter fastening

 Trapezoid anchor fastening

- O Required face width 🧠 . . . /. . . . mm
- OProjecting frame
- O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel O 4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm
- O Solid wooden frame, 70/110 mm

 Standard installation

 Installation in hallways

- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Thickness of door leaf about 110 mm, meeting stiles double-rebated – Double-rebated (D)

- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)

 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- Arched door
- ODoor with vision panel

Edges

- Visible solid wood edge band, 3-sided
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop-Phonstop 30-17 (clear glass)
- OPyrostop-Phonstop 30-17 (patterned glass 504)
 OPyrostop / Allstop laminated glass

Configuration

- **O**Standard
- OFramed glazing
- OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm

- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Double-rebated for Rw,P = 42 dB

- VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB/32 dB
- VX 7939/160, 3-d. OBSW 060-21 VX, 3-d
- OVELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Double-rebated for Rw,P = 42 dB
- VX 7939/160 FD OBSW 060-21 VX FD for Rw,P = 37 dB/32 dB
- VX 7939/160
- OBSW 060-21 VX
 OVIELER ER.TB.160.337.F OHEWI B8107.160 VX
- - Galvanised Plastic material Matt nickel-plated
- Stainless steel
- Brass-coloured Colour-coated

Unrebated

VX 7729/160, 3-d.

O Concealed hinges

Unrebated

● VX 7729/160

O BSW 060-22 VX

O Concealed hinges

O HEWI B9107.160 VX

O Additional 3rd hinge

O VIELER ER.TB.160.332.S

O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX, 3-d.

O Additional 3rd hinge O HEWI B9107.160 VX, 3-d.

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
 OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate One-sided lever set
- OKnob-lever-set
- OSports hall handles (flush) OPanic pushbar
- OSecurity handle-set
 OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

- Overhead door closers according to DIN EN 1154 GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operators according to DIN 18263

- On active leaf On active and inactive leaf
- OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS ODORMA ED 200 GSR / CD 400 GSR

Floor-mounted door closers according to DIN EN 1154

- OGEZE BTS 550 IS OGEZE BTS 550 IS-G
- Additional options for door closers OIntegrated hold-open device OFree-swing function for active leaf OIntegrated hold-open device

with smoke detector OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated O[®].....
- Special equipment
- 2 retractable bottom seals OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts

Standard

OKick plate (aluminium/stainless steel)

On request



20 N

2-leaf door

Performance overview

El₂30-C5

T 30

Main function



● Fire-Protection T 30

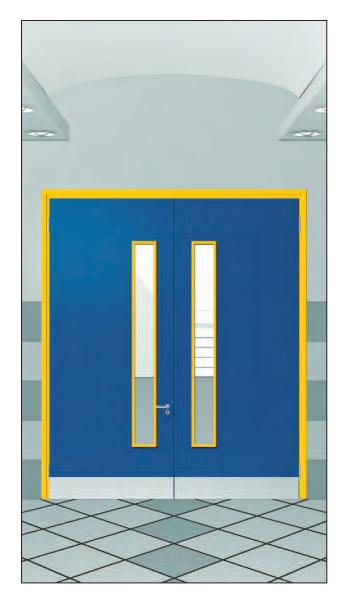
Optional function



O Smoke-Protection



- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models





Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1375-3000 1750-3500			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1281-2906 1703-3453			
٦	Thickness of door leaf	110			
ion	Solid door	O			
	Door with vision panel	0			
Configuration	Style door (coffer, panel, profile beads)	0			
Sor	Climate category II	•			
	Stress group E (4)	•			

Edge	with double jamb rebate	0
Ed	Double-rebated	0
Walls	Solid wall	0
	Gasblock concrete wall	0
	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
Frames	Wooden wrap-around frame	О
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Information





2-leaf door

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with

T 30-2 FORM-Fire-Protection-Door Model 50-2.00

Approval

Approval No. DIBt. Z-6.16-1413

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 50 dB
- O Sound-Insulation Rw,P = 48 dB
- O Burglar-Protection WK 2
- Radiation-Protection

Dimensions

(B)					E	Ś٢	۲-	M	/IC	a.	tr	1	Х			BK-neignt
																Throat opening

Wallo	
O Solid wall	(1
O Gasblock concrete wall	(1
O Gypsum plasterboard wall	
OF 30-Glazing Type 25 V	

OWooden elements ≥ F 60B O Steel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mmwithout floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallwaysRound-shaped frame
- OFace expansion 🐿 /. mm
- O Decorative rebated frame, rebate depth mm
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- ORequired face width 🐿 . . . / . . . mm
- OProjecting frame
- O Sports hall frame
- O Frame for reconstruction
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm O Solid wooden frame, 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- Q4-sided frame

Thickness of door leaf about 91 mm, meeting stiles double-rebated – Rebated (F)

- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- OStyle door
- with profile beadswith frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable Unrebated

- Double-rebated
- VX7939/160-4 N FD OBSW090-745/160 DF, VX OAdditional 3rd hinge
- O VX7729/160-4 N O BSW090-747/160, VX O Additional 3rd hinge O Additional 4th hinge

Unrebated

OAdditional 4th hinge Wooden frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable (VHX)

Double-rebated

Galvanised

Stainless steel

- VX7939/160-4 N FD OBSW090-745/160 DF, VX OAdditional 3rd hinge
- OAdditional 4th hinge
- O VX7729/160-4 N
 O BSW090-747/160, VX O Additional 3rd hinge O Additional 4th hinge
- Ō. Hinge surface

Matt nickel-plated

Ò..... Brass-coloured

- Colour-coated

- PZ-lock according to DIN 18250, backset 80 mm, inactive leaf with concealed shot-bolt lock
 OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- One-sided lever set
- OKnob-lever-set
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set Handle surface

- Aluminium
- Stainless steel
- Plastic material O®

Door closer

Overhead door closers

- according to DIN EN 1154

 GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS
- ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operators according to DIN 18263

- On active leaf
- On active and inactive leaf
- OGEZE TSA 160 NT F-IS

OGEZE ISA 100 NT F-IS OGEZE Slimdrive EMD F-IS ODORMA ED 200 GSR / CD 400 GSR Floor-mounted door closers according to DIN EN 1154

- OGEZE BTS 550 IS
- OGEZE BTS 550 IS-G

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function for active leaf OIntegrated hold-open device
- with smoke detector OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel Colour-coated

Special equipment

- •2 retractable bottom seals
- OClimate category III OElectrical strike
- ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Standard On request



50-2

2-leaf door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



● Sound-Insulation Rw,P = 50 dB O Sound-Insulation Rw,P = 48 dB



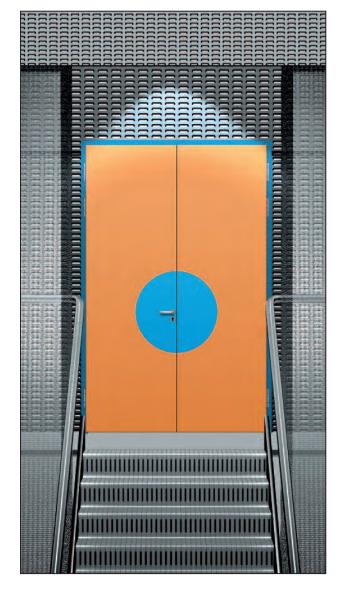
O Burglar-Protection WK 2



O Radiation-Protection



50-2.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1500-3000 1750-3000			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1406-2906 1703-2953			
Din	Thickness of door leaf	91			
Ξ	Solid door	0			
Configuration	Style door (profile beads)	0			
gur	Climate category II	•			
onfi	Climate category III	0			
O	Stress group E (4)	•			

4)	Rebated	0
Edge	Double-rebated	•
ш	with double jamb rebate	0
	Solid wall	0
S	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	О
Ţ.	Solid wooden frame	0
	4-sided frame	0



Information







2-leaf door

Tender specifications

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door /-Flap Model 27.10 / 27.10 KL

Approval

Approval No. DIBt. Z-6.20-2007

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

Dimensions

1					E	3H	۲-	٧	V١	d.	tr	1	X	(BR-height
	٠				٠							٠				Throat opening

vvalis	
O Solid wall	(N
O Gasblock concrete wall	(N
O Gypsum plasterboard wall	(L
OF 30-Glazing Type 25 V	(F
OWooden elements ≥ F 60B	,

Steel frames

OSteel elements ≥ F 60A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm - Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame O Face expansion <a>® . . .
- . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- O Projecting frame
- O Fineline frame
- O Sports hall frame
- O Required face width 🧠 . . . / . . . mm O Frame for reconstruction
- O Fixed side panel O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/60 mm OSolid wooden frame, 70/73 mm
- respectively 70/95 mm Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Frame thickness 73/95 mm, meeting stiles with single rebate
- Rebated (F)

- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel with coffer
- with panel version II
- OSolid wood framed door with round arch

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
- OPyrostop 30-12 (patterned glass 504)
- OPyrostop-Phonstop 30-17 (clear glass)
 OPyrostop-Phonstop 30-17 (clear glass)
 OContraflam 30-N2
 OContraflam 30-N2 ISO

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm
- Owithout middle frieze, minimum frame widths
- side/top/bottom ≥ 105 mm,
- door rebate dimension over 1100 mm with bottom frieze 195 mm,
- on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm/...../
- ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated

Hinges Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated

- VSX 7939/160, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F. 3-d. OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge
- VSX 7729/160, 3-d. O VX 7729/160, 3-d.
 - O BSW 060-22 VX, 3-d. OVIELER ER.TB.160.332.S, 3-d. O Concealed hinges

Unrebated

- O HEWI B9107.160 VX, 3-d..
 - O Additional 3rd hinge
- Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated
- VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge ○◎.....
- Unrebated VSX 7729/160
- O VX 7729/160
- O BSW 060-22 VX OVIELER ER.TB.160.332.S
- O Concealed hinges O HEWI B9107,160 VX O Additional 3rd hinge

Hinge surface

- Galvanised Matt nickel-plated
- Plastic material - Brass-coloured
- Stainless steel Colour-coated

● PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock

El₂30-C5

- OLock for narrow style doors
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- 9 mm spindle
- FS-handles, plastic material, round-shaped. with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- One-sided lever set
- OKnob-lever-set
- OPanic pushbar
- OSecurity handle-set
 OCode card handle-set
- Handle surface – Aluminium
- Stainless steel - Plastic material

Door closer

- Overhead door closers according to DIN EN 1154 GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operators according to DIN 18263

- On active leaf On active and inactive leaf
- OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS ODORMA ED 200 GSR / CD 400 GSR

Floor-mounted door closers according to DIN EN 1154

- OGEZE BTS 550 IS
- OGEZE BTS 550 IS-G

Additional options for door closers

- OIntegrated hold-open device OFree-swing function for active leaf OIntegrated hold-open device
 - with smoke detector

OExternal smoke detector Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated
- O[®].....
- OElectrical strike ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function)
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel OConcealed cable transition

Special equipment

- OSecurity bolts
- OKick plate (aluminium/stainless steel)



27 N

2-leaf door

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models







Flap 27.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 625-3750
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 593-3718
٦	Thickness of door leaf	73/95
a-	Solid wood framed door	0
Configura- tion	Solid wood framed style door (coffer, panel, panel version II)	О
ŏ	Climate category II	•
Edge	Rebated	0
Ed	Unrebated with jamb rebate	0
	·	

	Solid wall	0
SIII.	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
Sé	Wooden wrap-around frame	О
Frames	Wooden block frame	0
Ā	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



Standard O On request



27 N Slimline

2-leaf door

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 27.10 Slimline

Approval

Applied for approval

Optional function

- O Smoke-Protection
- OSound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

BR-width x BR-height Throat opening

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
OF 30-Glazing Type 25 V
OWooden elements ≥ F 60B

O Steel elements ≥ F 60A Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Solid wooden frame, 70/95 mm

- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel O4-sided frame

Frame thickness 73 mm,, meeting stiles with single rebate
- Unrebated (S)

- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

Promaglas 30-20

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom \geq 30/30/0 mm
- OOn middle frieze, side ≥ 75 mm

Owithout middle frieze, minimum frame widths side/top/bottom ≥30/30/0 mm,

on request with bar ≥ 55 < 150 mm, on request with

intermediate frieze ≥ 150 < 280 mm

OOn middle frieze, side ≥ 75 mm

for bottom frieze widths = 0 mm, stainless steel guard rail required

ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated

OOn site coating/undercoating foil

OColour-coated

Hinges

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Unrebated ● VX 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated Stainless steel
- Brass-coloured Colour-coated

Locks

- Lock for narrow style doors
- OPZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

9 mm spindle

- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- One-sided lever set
- OKnob-lever-set OPanic pushbar
- OSecurity handle-set OCode card handle-set
- Handle surface

Aluminium

- Stainless steel
- Plastic material

Overhead door closers

according to DIN EN 1154 OGEZE TS 5500 IS / DORMA TS 93 GSR

OGEZE TS 4000 IS

OGEZE TS 5000 IS

ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operators according to DIN 18263

- On active leaf
- On active and inactive leaf
- OGEZE TSA 160 NT F-IS

OGEZE Slimdrive EMD F-IS ODORMA ED 200 GSR / CD 400 GSR Floor-mounted door closers according to DIN EN 1154

● GEZE BTS 550 IS-G

Additional options for door closers

OIntegrated hold-open device

OFree-swing function for active leaf OIntegrated hold-open device

with smoke detector

OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated О⊚.....

Special equipment

OElectrical strike

ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)

OBlock lock OBolt contact

OMagnetic contact OCable channel

OConcealed cable transition OSecurity bolts



27 N Slimline

2-leaf door

Tender specifications

El₂30-C5 T 30

Main function



● Fire-Protection T 30

Optional function



O Smoke-Protection



- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1375-2549 1750-2529			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1215-2398 1670-2449			
٦	Thickness of door leaf	73			
a-	Solid wood framed door	0			
Configura- tion	Solid wood framed style door (coffer, panel, panel version II)	О			
ŏ	Climate category II	•			
Edge	Unrebated	•			

	Solid wall	0
<u>န</u>	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
-rames	Solid wooden frame	0
Frai	4-sided frame	0



Information





27 N GLT

2-leaf door, reversed

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door /-Flap Model 27.10 GLT

Approval

Approval-No. DIBt. Z-6.20-2007

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB
- O Sound-Insulation Rw,P = 37 dB

					Е	3F	₹-	٧	νi	ď	th	1	>	(BR-height
																Throat opening

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
OF 30-Glazing Type 25 V	(F)
O Wooden elements ≥ F 60B	

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Solid wooden frame, 70/73 mm

respectively 70/95 mm

O Steel elements ≥ F 60A

- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel

Door leaf

Frame thickness 73/95 mm, meeting stiles with single rebate

- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
- OPyrostop 30-12 (patterned glass 504)
- OPyrostop-Phonstop 30-17 (clear glass) OPyrostop-Phonstop 30-17 (patterned glass 504)

Configuration

OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm, door rebate dimension over 1100 mm with

bottom frieze 195 mm Owithout middle frieze, minimum frame widths

side/top/bottom ≥ 105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm

on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm 🔊 / /

ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated
- О⊚.....

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VSX 7729/160
- Ovx 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OConcealed hinges OHEWI B9107,160 VX
- OAdditional 3rd hinge
- O 🕸 .

Hinge surface

- Galvanised Matt nickel-plated
- Stainless steel
- Plastic material
- Brass-coloured Colour-coated

- PZ-Shot-bolt lock on both leafs

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-lever set according to DIN 18273,
- one-sided, on both leafs
- with long backplate

OPanic pushbar Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closers according to DIN EN 1154

• GEZE TS 5500 / DORMA TS 93 • GEZE TS 4000

OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F OGEZE BTS 550 F-G

ODORMA BTS 80 F

Additional options for door closers

OIntegrated hold-open device

- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel Colour-coated

Special equipment

- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



27 N GLT

2-leaf door, reversed

Performance overview

El₂30-C5 T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 32 dB

O Sound-Insulation Rw,P = 37 dB









Performance profile

s (mm)	Basic dimension Basic dimension	1461-2568 1793-2543	
Dimensions (mm)	Clear passage LD-width Clear passage LD-height		1311-2436 1718-2468
Dir	Thickness of door	73/95	
ъ-	Solid wood frame	0	
Configura- tion	Solid wood frame (coffer, panel, panel	O	
Ö	Climate category	•	

Edge	Unrebated with jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frame	Solid wooden frame	•

Information

For additional technical information please see appendix, indicated with i







Schörghuber

Fire-Protection-Doors



2-leaf sliding door

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection sliding door, window Model 4.00 ST / 4.10 ST

Approval

Applied for approval

Dimensions

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall

OGypsum plasterboard wall

OF 30-Glazing Type 25 V O Wooden elements ≥ F 60B

OSteel elements ≥ F 60A

Steel frames

- O Steel wrap-around frame
- O Frame for installation in existing walls
 - Adapter fastening
 - Trapezoid anchor fastening
- OSteel block frame with concealed slide rail

Wooden frames

- OWooden wrap-around frame
- OWooden corner frame
- O Wooden block frame with concealed slide rail

Door leaf

- Thickness of door leaf about 50 mm
- Unrebated (S)
- Solid door, climate category II
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-, 3-, 4-sided
- OPU-edge OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- **O**Standard
- OFramed glazing

- OAccording to DIN 68706 OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm
- OSpecial vision panel size 🕲 mm

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

OAluminium slide rail with plastic material rolls

- without lock
- OCircular lock

OUnrebated pulls on both sides

- OManual opening, closing by weight with shock absorbing action
- OMagnetic locking device in
- combination with smoke detector OAutomatic door operator, on request control with light barrier, key-operated push button, code card reader, etc.

Special equipment

- OClimate category III
- ODoor viewer
- OKick plate (aluminium/stainless steel)





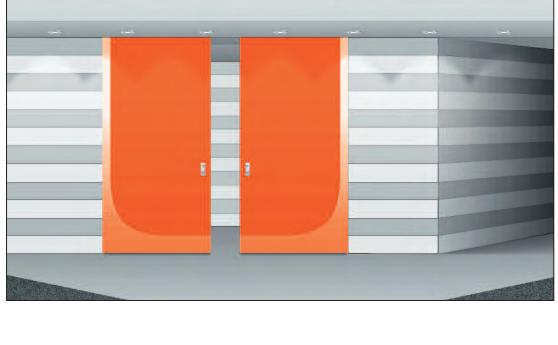
4 N ST

2-leaf sliding door

Performance overview

El₂30-C5

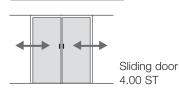
T 30



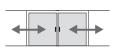
Main function

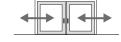


Fire-Protection T 30









Sliding flap 4.00 ST

window 4.10 ST

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-2852 1000-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2788 968-2968
٥	Thickness of door leaf	50
ion	Solid door	0
urat	Door with vision panel	0
Configuration	Climate category II	•
ပိ	Climate category III	0

Edge	Unrebated	•
w	Solid wall	0
Walls	Gypsum plasterboard wall	0
۸	Glazing Type 25 V	О
	Steel frame	0
nes	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Wooden corner frame	0



Information

For additional technical information please see appendix, indicated with i



Standard On request



2-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 4.01 / 4.11 / 4.02 / 4.12

Approval

Approval No. DIBt. Z-6.20-1934

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L)OF 30-Glazing Type 25 V (F) OWooden elements ≥ F 60B

OSteel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

– Backbend 15 mm

- Backbend 9 mm - Floor recess 30 mm

- without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways O Round-shaped frame
- O Face expansion
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
- Fineline frame ORequired face width 🕲 .../...mm
- O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- O Wooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
 Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel O4-sided frame

Door leaf

Thickness of door leaf about 50 mm,

rebated meeting stiles with rabbet ledge on push side

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided 82

OStyle door

- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
- OPyrostop 30-12 (patterned glass 504)

Configuration OStandard

- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass
- Glazing beads OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated with rabbet ledge
- with transom
- OFanlight with transom and Fire protection glass

Door leaf / Top panel / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d. OSpring hinge FHX 7939/160, 3-d. (only inactive leaf)
- OAdditional 3rd hinge

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated
- VSX 7939/160
- Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OSpring hinge FHX 7939/160 (only inactive leaf)
- OAdditional 3rd hinge Hinge surface
- Galvanised - Stainless steel
 - Matt nickel-plated
- O Spring hinge FHX 7729/160 (only inactive leaf)

Unrebated

VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

Concealed hinges

O Additional 3rd hinge

Unrebated

VSX 7729/160

O BSW 060-22 VX

O Concealed hinges

O HEWI B9107.160 VX

O Additional 3rd hinge

O VIELER ER.TB.160.332.S

O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d.

O Spring hinge FHX 7729/160, 3-d. (only inactive leaf)

O HEWI B9107.160 VX, 3-d.

- Plastic material Brass-coloured
- Colour-coated

El₂30-C5

Spring hinge surface

- Matt chrome-plated Galvanised
- Matt nickel-plated - Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
 OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate
 One-sided lever set
 Knob-lever-set OPanic pushbar
- OSecurity handle-set OCode card handle-set
- Handle surface
- Aluminium
- Stainless steel
- Plastic material

Door closer

- Overhead door closers according to DIN EN 1154
- GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS

ODORMA ITS 96 GSR / GEZE Boxer ISM Automatic door operators

- according to DIN 18263
- On active leaf
- OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS

ODORMA ED 100 / 200 / 250 ESR Floor-mounted door closers according to DIN EN 1154

- OGEZE BTS 550 IS OGEZE BTS 550 IS-G
- Spring hinge (Inactive leaf) Additional options for door closers
- OIntegrated hold-open device OFree-swing function for active leaf
- OIntegrated hold-open device with smoke detector

Special equipment

OExternal smoke detector Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated O‱
- OClimate category III
- OElectrical strike ODoor viewer ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function) OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel) Standard On request
 - Please fill in



2-leaf door, with top panel

Performance overview

El₂30-C5

T 30

Main function



● Fire-Protection T 30

Optional function



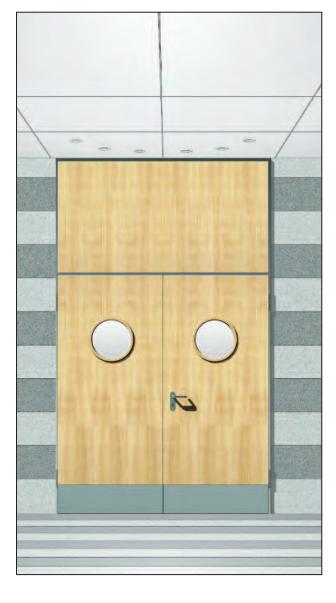
O Smoke-Protection



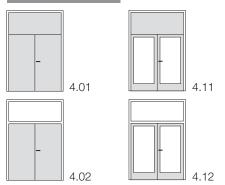
O Sound-Insulation Rw,P = 32 dB







Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 2000-3500
Oimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	811-2686 1968-3468 1718-2718
Ωir	Thickness of door leaf	50
	Solid door	0
Ę	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
onfi	Climate category II	•
Ö	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
Ed	Unrebated	0
	Solid wall	0
S	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
ᇤ	Solid wooden frame	0
	4-sided frame	0







2-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with

T 30-2 FORM-Fire-Protection-Door Model 26.01 / 26.11 / 26.02 / 26.12

Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB
- O Burglar-Protection WK 2
- O Radiation-Protection

Dimensions

🕲 BR-width x BR-height Throat opening

- O Solid wall O Gasblock concrete wall O Gypsum plasterboard wall (M) (L) (F) OF 30-Glazing Type 25 V
- OWooden elements ≥ F 60B OSteel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm - Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame O Face expansion <a>® . . .
- . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening (top panel)
- O Projecting frame
- O Fineline frame ORequired face width 🕲 . . . /. . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel O4-sided frame

Thickness of door leaf about 70 mm, meeting stiles with single rebate

Rebated (F)

Door leaf

- Unrebated with jamb rebate (S)
- Double-rebated (D)

- Solid door, climate category II
- OSolid door, climate category III Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
 OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)
- OPyrostop / Allstop laminated glass

Configuration OStandard

- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door OSpecial vision panel size ⊗ mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Rebated and counter-rebated
- with transom
- OFanlight with transom and Fire protection glass

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated/Double-rebated

- VSX 7939/160, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107,160 VX, 3-d. OAdditional 3rd hinge

Unrebated

- VSX 7729/160, 3-d. OVX 7729/160 3-d
- O BSW 060-22 VX, 3-d. OVIELER ER.TB.160.332.S, 3-d.

O №

O Concealed hinges
O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- Rebated/Double-rebated ● VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F
- VSX 7729/160 O VX 7729/160 O BSW 060-22 VX
- O VIELER ER.TB.160.332.S O Concealed hinges O HEWI B9107.160 VX OHEWI B8107.160 VX OAdditional 3rd hinge

Hinge surface

- Galvanised Matt nickel-plated
- Plastic material - Brass-coloured

O Additional 3rd hinge

0 №

- Stainless steel
- Colour-coated

Locks

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
 OFS-handles according to DIN 18273
- with short backplate
- with rosette with rectangular backplate
- with long backplate
- One-sided lever set OKnob-lever-set
- OPanic pushbar
- OSecurity handle-set

OCode card handle-set

- Handle surface
- Aluminium Stainless steel
- Plastic material

Door closer

Overhead door closers according to DIN EN 1154

○◎......

- GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS OGEZE TS 5000 IS
- ODORMA ITS 96 GSR / GEZE Boxer ISM

Automatic door operators

- according to DIN 18263
- On active leaf
- On active and inactive leaf
 OGEZE TSA 160 NT F-IS
 OGEZE Slimdrive EMD F-IS

ODORMA ED 100 / 200 / 250 ESR

- Floor-mounted door closers according to DIN EN 1154
- OGEZE BTS 550 IS OGEZE BTS 550 IS-G

- Additional options for door closers
 Ointegrated hold-open device OFree-swing function for active leaf
- OIntegrated hold-open device with smoke detector

External smoke detector

- Door closer surface
- Silver-coloured Stainless steel Colour-coated
- Special equipment
- OElectrical strike ODoor viewer ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function)

Standard

- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)
 - - On request Please fill in

84



26 N

2-leaf door, with top panel

Performance overview

T 30

Main function



■ Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 In combination with 25 V fanlight



O Radiation-Protection

Models









Performance profile

26.01

(mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 2000-4000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	936-2936 1968-3968 1718-3468
Ω	Thickness of door leaf	70
	Solid door	0
u	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	О
onfi	Climate category II	•
ŭ	Climate category III	0
	Stress group E (4)	•

Super size: On request with a door leaf width of up to 2000 mm!







6	Rebated	0
Edge	Unrebated with jamb rebate	0
ш	Double-rebated	0
	Solid wall	0
IIIS	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
	Steel frame	О
S	Wooden wrap-around frame	0
Frames	Wooden block frame	О
F	Solid wooden frame	0
	4-sided frame	0











26 N GLT

2-leaf door, reversed, with top panel

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 26.02 GLT / 26.12 GLT

Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB

Dimensions

	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_		
									В	R	-١	Νİ	d	th	1	Х			BR-height
																			Throat opening

Walls

O Solid wall	(1
O Gasblock concrete wall	(I
 Gypsum plasterboard wa 	II
OF 30-Glazing Type 25 V	
OWooden elements ≥ F 60	В
OSteel elements ≥ F 60A	

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- OSolid wooden frame, 70/73 mm
- Standard installation
 Installation in hallways
- Installation in hallways
- Installation in front of wall opening Projecting installation
- O Fixed side panel

Thickness of door leaf about 70 mm, meeting stiles with single rebate Unrebated with jamb rebate (S)

- Solid door, climate category I
- OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional
- wood panelling
 ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge OVeneer edae
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- **O**Standard
- OFramed glazing

- OAccording to DIN 68706

 OVision panel, 215/1015 mm

 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door OSpecial vision panel size 🕲 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

OFanlight with transom and Fire protection glass

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil OColour-coated

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Unrebated
- VSX 7729/160 Ovx 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OConcealed hinges
 OHEWI B9107.160 VX
- OAdditional 3rd hinge O ®

Hinge surface

- Galvanised
- Matt nickel-plated Brass-coloured
- Plastic material
- Stainless steel

PZ-Shot-bolt lock on both leafs

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- OFS-lever set according to DIN 18273, one-sided, on both leafs
- with long backplate
- OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closers according to DIN EN 1154

- GEZE TS 5500 / DORMA TS 93 OGEZE TS 4000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closers according to DIN EN 1154 OGEZE BTS 550 F

- OGEZE BTS 550 F-G
- ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function OIntegrated hold-open device
- with smoke detector

OExternal smoke detector

- Door closer surface
- Silver-coloured Stainless steel
- Colour-coated
- О७

Special equipment

- ORetractable bottom seal (standard with Smoke-
 - Protection and Sound-Insulation function)
- ODoor viewer OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)

Please fill in



26 N GLT

2-leaf door, reversed, with top panel

Performance overview

El₂30-C5

T 30

Main function



• Fire-Protection T 30

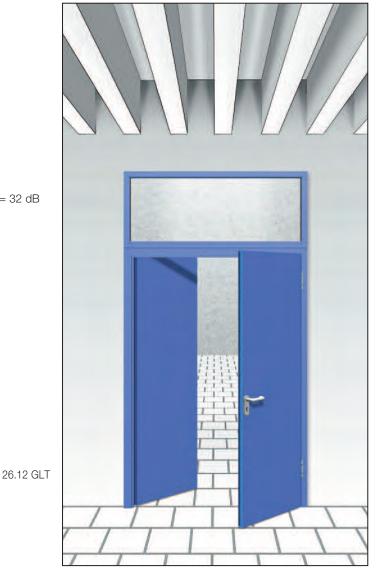
Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 32 dB



Models



26.02 GLT



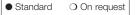
Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1461-2586 1793-3543			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1311-2436 1968-3468 1718-2468			
Dir	Thickness of door leaf	70			
	Solid door	0			
u	Door with vision panel	0			
Configuration	Style door (coffer, panel, profile beads)	O			
onfi	Climate category II	•			
Ŏ	Climate category III	0			
	Stress group E (4)	•			

Edge	Unrebated with jamb rebate	•
	Solid wall	О
Walls	Gasblock concrete wall	0
8	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frame	Solid wooden frame	•



Information





2-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 6.01 / 6.11 / 6.02 / 6.12

Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Burglar-Protection WK 2
- Radiation-Protection

BR-width x BR-height Throat opening . . . BR-height

O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L) (F)

OF 30-Glazing Type 25 V O Wooden elements ≥ F 60B

O Steel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

Backbend 9 mm

- Backbend 15 mmwithout floor recess
- Floor recess 30 mm
- O Steel wrap-around frame, for solid wall O Steel wrap-around frame,

for gypsum plasterboard wall

- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame

 Standard installation
- Installation in hallways
- ORound-shaped frame
- OFace expansion 🐿 .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- O Projecting frame
- O Required face width 🕲 .
- O Frame for reconstruction O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- OSolid wooden frame, 70/73 mm
- respectively 70/95 mm Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- OFrame for reconstruction
- O Fixed side panel O 4-sided frame

Door leaf

Thickness of door leaf about 70 mm, meeting stiles double-rebated

88

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)

- one-/two-sided

- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- OConcealed solid wood edge band, 2-sided
- OVeneer edge

Vision panel

- Pyrostop-Phonstop 30-17 (clear glass)
 OPyrostop-Phonstop 30-17 (patterned glass 504)

- OPorthole Ø 350, 400, 500 and 650 mm
- OSpecial vision panel size 🗞 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OStainless steel (porthole Ø 350 mm)

- Counter-rebated and double-rebated
- OFanlight with transom and Fire protection glass consisting of Pyrostop-Phonstop-laminated glass

Door leaf / Top panel / Wooden frame

- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB
- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d. OVIELER ER.TB. 160,337.F. 3-d.

- Wooden frames
- hinge base 3D adjustable (VHX) Rebated/Double-rebated for Rw,P = 42 dB
- VX 7939/160 FD
- VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OAdditional 3rd hinge

- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling,
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB

- Edges
- Solid wood batten, white/red wood, 3-sided
- OPU-edge
- OPlastic material edge
 OColour-coated edge

- Type of glass

- OPyrostop / Allstop laminated glass

- Configuration
- **O**Standard
- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OAs multiple glazed door

- OAluminium untreated/anodized

- Top panel
- OTop panel
- with transom

- OVeneer
- Untreated

Steel frames

- Rebated/Double-rebated
- for Rw,P = 42 dB vx 7939/160 FD, 3-d.
- OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge
- Three-roll-hinges, 2 pieces, 160 mm,
- OBSW 060-21 VX FD for Rw,P = 37 dB
- OHEWI B8107.160 VX

- - OVSX 7729/160, 3-d.
 - O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.
 - O VIELER ER.TB.160.332.S, 3-d.
 - O Concealed hinges
 O HEWI B9107.160 VX, 3-d.
 - O Additional 3rd hinge O 🕲
- Unrebated VSX 7729/160 Ovx 7729/160
- O HEWI B9107.160 VX O Additional 3rd hinge

0

O BSW 060-22 VX O VIELER ER.TB.160.332.S O Concealed hinges

- OPanic pushbar OSecurity handle-set
 - Handle surface - Aluminium
 - Stainless steel

 - Overhead door closers

OGEZE TS 5000 IS ODORMA ITS 96 GSR / GEZE Boxer ISM

- Automatic door operators according to DIN 18263
- On active leaf On active and inactive leaf
- OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR

according to DIN EN 1154 OGEZE BTS 550 IS

- OGEZE BTS 550 IS-G
- Additional options for door closers OIntegrated hold-open device OFree-swing function for active leaf
- OExternal smoke detector Door closer surface
- Colour-coated
- Retractable bottom seal OClimate category III OElectrical strike
- OBolt contact OMagnetic contact

Standard

- Please fill in

El₂30-C5

Hinge surface

- Colour-coated

- Galvanised - Plastic material
- Matt nickel-plated - Brass-coloured

Stainless steel

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever OPanic lock in both leafs, inactive leaf
- with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever OTriple bolting
- OCode card lock system Forend surface
- Galvanised Stainless steel Brass-plated
- Handles
- 9 mm spindle ● FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette with rectangular backplate
- with long backplate One-sided lever set
- OKnob-lever-set
- OCode card handle-set
- Plastic material
- Door closer
- according to DIN EN 1154

 GEZE TS 5500 IS / DORMA TS 93 GSR OGEZE TS 4000 IS

- OGEZE TSA 160 NT F-IS
- Floor-mounted door closers
- Silver-coloured Stainless steel
- ODoor viewer
- OCable channel OConcealed cable transition
 - On request

- OIntegrated hold-open device with smoke detector
- Special equipment
- OBlock lock
- OSecurity bolts

OKick plate (aluminium/stainless steel)



2-leaf door, with top panel

Performance overview

El₂30-C5 T 30

Main function



■ Fire-Protection T 30

Optional function



O Smoke-Protection



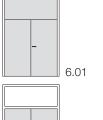


O Burglar-Protection WK 2 In combination with 25 V fanlight



O Radiation-Protection

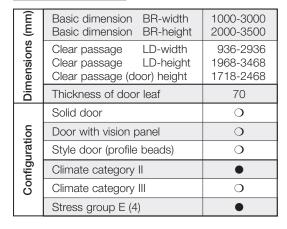
Models











	Rebated	0
Edge	Unrebated with jamb rebate	О
	Double-rebated	0
	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
	Steel frame	0
ပ္ဆ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
芷	Solid wooden frame	0
	4-sided frame	0



Information







6 N GLT

2-leaf door, reversed, with top panel

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 6.02 GLT / 6.12 GLT

Approval

Approval No. DIBt. Z-6.20-1980

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 37 dB

Dimensions

					Е	BF	₹-	٧	νi	ď	th	1	×	(BR-height
																Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
OF 30-Glazing Type 25 V
OWooden elements > F 60F

Wooden frames

OSteel elements ≥ F 60A

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- OSolid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel

Door leaf

Thickness of door leaf about 70 mm, meeting stiles double-rebated

- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- with profile beads
- OStyle door
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Edges
 Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop-Phonstop 30-17 (clear glass)
 OPyrostop-Phonstop 30-17 (patterned glass 504)

Configuration

- **O**Standard
- OFramed glazing OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
 OSpecial vision panel size \$\infty\$.....mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

OFanlight with transom and Fire protection glass consisting of Pyrostop-Phonstop-laminated glass

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm OOn site coating/undercoating foil
- OColour-coated

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VSX 7729/160
- Ovx 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OConcealed hinges OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
 - Plastic material Matt nickel-plated
- Stainless steel
- Brass-coloured Colour-coated

PZ-Shot-bolt lock on both leafs

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-lever set according to DIN 18273,
- one-sided, on both leafs
- with long backplate
- OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closers according to DIN EN 1154

- GEZE TS 5500 / DORMA TS 93 GEZE TS 4000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closers according to DIN EN 1154

- OGEZE BTS 550 F OGEZE BTS 550 F-G
- ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel Colour-coated

Special equipment

- Retractable bottom seal
- OClimate category III
- ODoor viewer
- OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)



6 N GLT

2-leaf door, reversed, with top panel

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



Sound-Insulation Rw,P = 37 dB







Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1461-2586 1793-3543
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1311-2436 1968-3468 1718-2468
Dir	Thickness of door leaf	70
	Solid door	0
ion	Door with vision panel	0
ırat	Style door (profile beads)	0
Configuration	Climate category II	•
S	Climate category III	О
	Stress group E (4)	•

Edge	Unrebated with jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
8	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frame	Solid wooden frame	•



Information







2-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 20.01 / 20.11 / 20.02 / 20.12

Approval No. DIBt. Z-6.20-2040

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

Dimensions

D					E	3F	₹-	٧	۷İ۱	ď	th	1	Х			BR-height
																Throat opening

Walls	
O Solid wall	(M
O Gasblock concrete wall	(M
O Gypsum plasterboard wall	(L
OF 30-Glazing Type 25 V	(F
OWoodon alamanta > E 60R	

Steel frames

O Steel elements ≥ F 60A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/17 mm
- OSteel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame O Face expansion <a>® . . .
- . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- O Projecting frame
- O Required face width 🧠 . . . /. . . . mm
- OFrame for reconstruction
- O Fixed side panel
- O Design in stainless steel
- O4-sided frame O Sheet thickness 2 mm
- OBackbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- O Wooden wrap-around frame, architrave 60/60 mm O Wooden block frame, architrave 45/75 mm
- O Solid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf

Thickness of door leaf about 110 mm, meeting stiles double-rebated

- Double-rebated (D)
- Unrebated with double jamb rebate (S)

Solid door, climate category II

- Stress group E (4)
- O Door with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional Door with vision panel wood panellingO

Edges

• Visible solid wood edge band, 3-sided

OColour-coated edge

Vision panel

Type of glass

- Pyrostop-Phonstop 30-17 (clear glass)
 Pyrostop-Phonstop 30-17 (patterned glass 504)
 Pyrostop / Allstop laminated glass

Configuration

- **O**Standard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
 OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Top panel

- OTop panel
- Counter-rebated and double-rebated
- with transom
- OFanlight with transom and Fire protection glass

Surfaces

Door leaf / Top panel / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

- Double-rebated
- for Rw,P = $42 \, dB$
- VX 7939/160 FD, 3-d.
 OBSW 060-21 VX FD, 3-d.
- for Rw,P = $37 \, dB / 32 \, dB$
- VX 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Double-rebated
- for Rw,P = 42 dB● VX 7939/160 FD OBSW 060-21 VX FD
- for Rw,P = 37 dB/32 dB■ VX 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107 160 VX
- OAdditional 3rd hinge O. Hinge surface
- Galvanised Matt nickel-plated
- Plastic material - Brass-coloured

Unrebated

VX 7729/160

O BSW 060-22 VX

O Concealed hinges

O HEWI B9107 160 VX

O Additional 3rd hinge

O VIELER ER.TB.160.332.S

O 🕲

Unrebated

● VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge

O BSW 060-22 VX. 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O HEWI B9107,160 VX. 3-d.

Stainless steel - Colour-coated

El₂30-C5

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- One-sided lever set
- OKnob-lever-set OPanic pushbar
- OSecurity handle-set OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Overhead door closers

- according to DIN EN 1154 ● GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS

ODORMA ITS 96 GSR / GEZE Boxer ISM Automatic door operators according to DIN 18263

- On active leaf
- On active and inactive leaf
- OGEZE TSA 160 NT F-IS OGEZE Slimdrive EMD F-IS

ODORMA ED 100 / 200 / 250 ESR Floor-mounted door closers according to DIN EN 1154 OGEZE BTS 550 IS

- OGEZE BTS 550 IS-G Additional options for door closers
- OIntegrated hold-open device OFree-swing function for active leaf OIntegrated hold-open device
- with smoke detector

OExternal smoke detector Door closer surface

- Silver-coloured
- Stainless steel Colour-coated

O⊚

- Special equipment 2 retractable bottom seals
- OElectrical strike ODoor viewer
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)

Please fill in

- Standard On request

92



20 N

2-leaf door, with top panel

Performance overview

El₂30-C5 T 30

Main function



• Fire-Protection T 30

Optional function



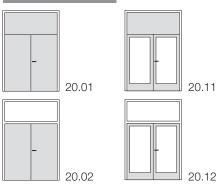
O Smoke-Protection



- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw.P = 37 dB
- O Sound-Insulation Rw,P = 32 dB







Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1375-3000 2015-5000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1281-2906 1968-4968 1703-3453
Ē	Thickness of door leaf	110
	Solid door	О
ion	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	О
Con	Climate category II	•
	Stress group E (4)	•

Edge	Double-rebated	0
Ed	with double jamb rebate	О
	Solid wall	0
SIIIS	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
Sé	Wooden wrap-around frame	О
Frames	Wooden block frame	0
ᇁ	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



Standard On request



2-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with

T 30-2 FORM-Fire-Protection-Door Model 27.11 / 27.12

Approval

Approval No. DIBt. Z-6.20-2007

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

Dimensions

W	ď	H	u															
																		. Throat opening
100	٠					٠	Е	i l	۲-	٧	V١	a	u	1	Х	٠		BR-neignt

Walls

- O Solid wall (M) (L) (F) O Gasblock concrete wall OGypsum plasterboard wall OF 30-Glazing Type 25 V
- OWooden elements ≥ F 60B OSteel elements ≥ F 60A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm - Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame O Face expansion <a>® . . .
- . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening (top panel)
- O Projecting frame
- O Fineline frame
- ORequired face width 🕲 . . . /. . . . mm O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) OWooden wrap-around frame, architrave 60/60 mm

- Wooden block frame, architrave 45/60 mm○ Solid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Frame thickness 73/95 mm, meeting stiles with single rebate
- Rebated (F)

- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II
- O.....

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
- OPyrostop 30-12 (patterned glass 504)
- OPyrostop-Phonstop 30-17 (clear glass)
 OPyrostop-Phonstop 30-17 (patterned glass 504)
- OContraflam 30-N2
 OContraflam 30-N2 ISO

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm
- Owithout middle frieze, minimum frame widths
- side/top/bottom ≥ 105 mm, door rebate dimension over 1100 mm with
- bottom frieze 195 mm
- on request with cross bar \geq 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm/.....
- ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Top panel

- OTop panel
- Rebated and counter-rebated
- with transom
- OFanlight with transom and Fire protection glass

Door leaf / Top panel / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 vx, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107,160 VX, 3-d.
- OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated ● VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge O[®]
- Unrebated ● VSX 7729/160
- O VX 7729/160

Unrebated

• VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

O Additional 3rd hinge

O VIELER ER.TB.160.332.S, 3-d.

O Concealed hinges
O HEWI B9107.160 VX, 3-d.

O 🕲

- O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges
 O HEWI B9107.160 VX O Additional 3rd hinge

Hinge surface

- Galvanised
- Plastic material Matt nickel-plated
- Stainless steel
- Brass-coloured Colour-coated

El₂30-C5

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OLock for narrow style doors
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- 9 mm spindle
- FS-handles, plastic material, round-shaped. with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- One-sided lever set
- OKnob-lever-set OPanic pushbar
- OSecurity handle-set OCode card handle-set
- Handle surface – Aluminium
- Stainless steel - Plastic material

Door closer

Overhead door closers according to DIN EN 1154 • GEZE TS 5500 IS / DORMA TS 93 GSR

- OGEZE TS 4000 IS
- OGEZE TS 5000 IS ODORMA ITS 96 GSR / GEZE Boxer ISM

Automatic door operators according to DIN 18263

- On active leaf
- On active and inactive leaf
- OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR Floor-mounted door closers
- according to DIN EN 1154
- OGEZE BTS 550 IS
- OGEZE 550 IS-G Additional options for door closers
- OIntegrated hold-open device OFree-swing function for active leaf OIntegrated hold-open device
- with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated
- Special equipment OElectrical strike ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function)
- OBlock lock OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts

Standard

- OKick plate (aluminium/stainless steel)
 - On request
 - Please fill in



27 N

2-leaf door, with top panel

Performance overview

El₂30-C5 T 30

Main function



● Fire-Protection T 30

Optional function



O Smoke-Protection



- O Sound-Insulation Rw.P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB



Models









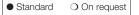
Performance profile

$\overline{}$		
(mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 2000-5000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	936-2936 1968-4968 1718-3718
Dir	Thickness of door leaf	73/95
a-	Solid wood framed door	0
Configura tion	Solid wood framed style door (coffer, panel, panel version II)	О
ŏ	Climate category II	•
ge	Rebated	0
Ed	Unrebated with jamb rebate	0
Edge C	Rebated	0

Walls	Solid wall	0
	Gasblock concrete wall	0
	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Information





27 N GLT

2-leaf door, reversed, with top panel

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



T 30-2 FORM-Fire-Protection-Door Model 27.12 GLT

Approval

Approval No. DIBt. Z-6.20-2007

Optional function

- O Smoke-Protection
- OSound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

BR-width x BR-height Throat opening

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
OF 30-Glazing Type 25 V	(F)

OWooden elements ≥ F 60B O Steel elements ≥ F 60A

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Solid wooden frame, 70/73 mm

- respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel

Door leaf

Frame thickness 73/95 mm, meeting stiles with single rebate

- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II Fire protection glass

96

- OSolid wood framed style door with panelwith

- with panel version II

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
- OPyrostop 30-12 (patterned glass 504) OPyrostop-Phonstop 30-17 (clear glass)
- OPyrostop-Phonstop 30-17 (patterned glass 504)

Configuration

OWith middle frieze ≥ 280 mm, minimum frieze widths side/top/bottom ≥ 75/75/105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm

Owithout middle frieze, minimum frieze widths side/top/bottom \geq 105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm, on request with cross bar ≥ 70 < 150 mm. on request with intermediate frieze ≥ 150 < 280 mm ©...../..../

ODecorative beads on glass

Glazing beads

OSolid wood veneered

Top panel

OFanlight with transom and Fire protection glass

Door leaf / Wooden frame

- **OVeneer**
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Unrebated

- VSX 7729/160
- Ovx 7729/160 OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- Ocompletely concealed hinges
- OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Plastic material Matt nickel-plated - Brass-coloured
- Stainless steel
- Colour-coated

PZ-Shot-bolt lock on both leafs

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-lever set according to DIN 18273,
- one-sided, on both leafs
- with long backplate OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- O[©].....

Door closer

Overhead door closers according to DIN EN 1154

• GEZE TS 5500 / DORMA TS 93 • GEZE TS 4000

OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F OGEZE BTS 550 F-G

ODORMA BTS 80 F

Additional options for door closers

OIntegrated hold-open device

OFree-swing function OIntegrated hold-open device

with smoke detector

OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel Colour-coated
- ○◎.....

Special equipment

ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)

OBlock lock

OMagnetic contact

OCable channel OConcealed cable transition

OSecurity bolts

OKick plate (aluminium/stainless steel)



27 N GLT

2-leaf door, reversed, with top panel

Performance overview

El₂30-C5

T 30

Main function



■ Fire-Protection T 30

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB

O Sound-Insulation Rw,P = 32 dB



Models





Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	1461-2568 1793-3543
	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1311-2436 1968-3468 1718-2468
	Thickness of door leaf	73/95
a-	Solid wood framed door	0
Configura- tion	Solid wood framed style door (coffer, panel, panel version II)	0
	Climate category II	•

Edge	Unrebated with jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
Frame	Solid wooden frame	•

Information









Fixed side panels

Tender specifications

El₂30-C5

For additional technical information please see appendix, indicated with



See respective door approval

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

🕲 BR-width x BR-height

(1)
(1)
(
(
(

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm
- Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame,
- for gypsum plasterboard wall
- O Steel block frame
- Standard installation
 Installation Installation in hallways
- O Face expansion < ∅ . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Frame for installation in existing walls
- Face screw fastening
- Adapter fastening
 Trapezoid anchor fastening
- O Design in stainless steel
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- O Wooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm
- Standard installation
 Installation in the stallation Installation in hallways
- Installation in front of wall opening
- Projecting installation

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Combinations

- T 30 Fire-Protection-Doors O T 30-1, Type 3 N O T 30-1, Type 13 N
- O T 30-1, Type 16 N
- O T 30-1, Type 5 N O T 30-1, Type 10 N

- O T 30-1, Type 25 N O T 30-1, Type 25 N Slimline
- O T 30-2, Type 4 N O T 30-2, Type 14 N O T 30-2, Type 26 N O T 30-2, Type 26 N GLT

- O T 30-2, Type 26 N GLT O T 30-2, Type 6 N GLT O T 30-2, Type 6 N GLT O T 30-2, Type 20 N O T 30-2, Type 27 N O T 30-2, Type 27 N GLT O T 30-2, Type 27 N Slimline

Segmentation examples

Door set 1-leaf door

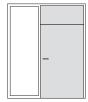
with one-sided fixed side panel



with two-sided fixed side panel and sectional panelling



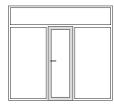
with top panel and one-sided fixed side panel



with fanlight, one-sided fixed side panel



with continuous fanlight, two-sided fixed side panel



with fixed middle panel and sectional panelling



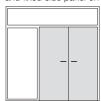
Door set 2-leaf door with one-sided fixed side panel



with fixed side panels on both sides



with continuous fanlight and fixed side panel on one side





Fixed side panels

Performance overview

El₂30-C5

T 30

Main function



Fire-Protection T 30

Optional function



O Smoke-Protection



- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



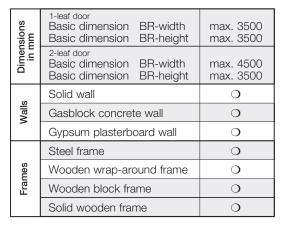












	T 30-1 Type 3 N	O
	T 30-1 Type 13 N	O
	T 30-1 Type 16 N	О
et	T 30-1 Type 5 N	0
or s	T 30-1 Type 10 N	О
op u	T 30-1 Type 25 N	0
In combination with door set	T 30-1 Type 25 N Slimline	0
ation	T 30-2 Type 4 N	0
) Bindr	T 30-2 Type 14 N	0
con	T 30-2 Type 26 N / 26 N GLT	О
ㅁ	T 30-2 Type 6 N / 6 N GLT	0
	T 30-2 Type 20 N	0
	T 30-2 Type 27 N / 27 N GLT	0
	T 30-2 Type 27 N Slimline	О



Information







1-leaf door

Tender specifications

Information

For additional technical information please see appendix, indicated with



T 60-1 FORM-Fire-Protection-Door Model 3-60.00 / 3-60.10

Approval

Applied for approval

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 36 dB
- O Sound-Insulation Rw,P = 32 dB
- O Radiation-Protection

Dimensions

BR-width x BR-height Throat opening

O Solid wall (M) OGasblock concrete wall (M) OGypsum plasterboard wall (L)

O Steel elements ≥ F 90A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall: - Backbend 15 mm

- Backbend 9 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🕲 . . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- O Projecting frame
- O Required face width 🧠 .../... mm
- O Frame for reconstruction
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- O Backbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Folded wooden frame
- O Frame for reconstruction
- O4-sided frame
- ○◎ . . .

Door leaf

- Thickness of door leaf about 50 mm
- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Type of glass

● Pyrostop 60-101 (clear glass)

Configuration

- **O**Standard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size \$\infty\$ mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable

Rebated

- VS 8939
- OVN 8938
- OVSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 vx, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8108.160
 OHEWI B8107.160 VX, 3-d.

- OSpring hinge FHX 7939/160, 3-d. OSpring hinge FHX 7729/160, 3-d. OAdditional 3rd hinge
- Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated
- VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX
- OVIELER ER.TB.160.337.F OHEWI B8107,160 VX OSpring hinge FHX 7939
- Unrebated

Unrebated

VS 8949

O VN 8948

O VSX 7729/160, 3-d.

O HEWI B9108,160

O Additional 3rd hinge

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX, 3-d.

- VSX 7729/160 O VX 7729/160 O BSW 060-22 VX
- O VIELER ER.TB.160.332.S O HFWI B9107.160 VX
- O Spring hinge FHX 7729 O Additional 3rd hinge

Colour-coated

Additional 3rd hinge Hinge surface

Galvanised Plastic material Matt nickel-plated Brass-coloured

Stainless steel Spring hinge surface

- Matt nickel-plated Galvanised
- Matt chrome-plated Colour-coated

El₂60-C5

- PZ-lock according to DIN 18250, backset 65 mm
 Panic lock, fixed knob on one side
 Panic lock, lever-lever

- OSelf-bolting panic locks
- OLock with special security equipment
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
 OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set Handle surface

Aluminium Stainless steel Plastic material

Door closer Overhead door closers

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73 ODORMA TS 83
- ODORMA TS 93

OGEZE TS 3000 OGEZE TS 5000

- Automatic door operators according to DIN 18263
- OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

Floor-mounted door closers

according to DIN EN 1154

- OGEZE BTS 550 F-G
- Additional options for door closers
 Olntegrated hold-open device
 OFree-swing function
- OIntegrated hold-open device with smoke detector

OExternal smoke detector Door closer surface

- Silver-coloured
- Stainless steel

Colour-coated

- Special equipment
- OClimate category III OLead inlay for Radiation-Protection
- OElectrical strike
- ODoor viewer ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function) OSill seal with aluminium threshold
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)



3-60

1-leaf door

Performance overview

El₂60-C5

T 60

Main function



Fire-Protection T 60

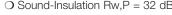
Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 36 dB O Sound-Insulation Rw,P = 32 dB





O Radiation-Protection



Models





Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 1750-2500
	Clear passage LD-width Clear passage LD-height	561-1250 1718-2468
Din	Thickness of door leaf	50
	Solid door	0
_	Door with vision panel	О
Configuration	Style door (profile beads)	0
Confi	Climate category II	•
	Climate category III	О
	Stress group E (4)	•

Edge	Rebated	0
В	Unrebated	0
w	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
	Steel frame	0
မွ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
	Folded wooden frame	0
	4-sided frame	0



Information







1-leaf door

Tender specifications

El₂60-C5

- Plastic material

- Brass-coloured

- Colour-coated

- Brass-plated

For additional technical information please see appendix, indicated with

T 60-1 FORM-Fire-Protection-Door Model 5-60.00 / 5-60.10

Approval

Applied for approval

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Burglar-Protection WK 2
- Radiation-Protection

BR-width x BR-height Throat opening

O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L)

O Steel elements ≥ F 90A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Floor recess 30 mm
- Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation Installation in hallways
- O Round-shaped frame
- OFace expansion 🕲 /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
- O Required face width 🕲 .../...mm
- O Frame for reconstruction
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. 4 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Folded wooden frame O Frame for reconstruction
- O4-sided frame

Door leaf

Thickness of door leaf about 70 mm

- Solid door, climate category II
- ODoor with holohedral additional wood panelling, one-/two-sided

- ODoor with vision panel

• Solid wood batten, white/red wood, 3-sided

Pyrostop-Phonstop 60-101 (clear glass)
 OPyrostop-Phonstop 60-171

Configuration

- OAccording to DIN 68706
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
 ODecorative beads on glass

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

- OHigh pressure laminate (HPL), 0,8 mm OOn site coating/undercoating foil
- OColour-coated

Three-roll-hinges, 2 pieces, 160 mm,

- VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB

- OVIELER ER.TB. 160.337.F, 3-d.
- Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- OBSW 060-21 VX FD

- Ovx 7939/160 OBSW 060-21 VX

- wood panelling

- OConcealed solid wood edge band, 2-sided
- OVeneer edge

Vision panel

- OVision panel, 215/1015 mm

- OVeneer
- Transparently coated

Hinges

- Rebated/Double-rebated for Rw,P = 42 dB

- OBSW 060-21 VX, 3-d.

- Rebated/Double-rebated
- FORM-VX7939/160 FD ○VX 7939/160 FD
- VSX 7939/160 OFORM-VX7939/160
- OAdditional 3rd hinge

- Unrebated with jamb rebate (S)
- Stress group E (4)
- OStyle door

- OColour-coated edge
- Type of glass
- OStandard

- Glazing beads

- Stained/transparently coated

- hinge base 3D adjustable

- VSX 7939/160, 3-d.
- OAdditional 3rd hinge
- for Rw,P = 42 dB
- for Rw,P = 37 dB
- OVIELER ER.TB.160.337.F OHEWI B8107.160 VX

- Rebated (F)

- with profile beadswith frame-like and/or fielded additional
- **Edges**
- OPlastic material edge

- OFramed glazing

- Untreated
- Steel frames

- Ovx 7939/160, 3-d.
- OHEWI B8107.160 VX, 3-d.

- O BSW 060-22 VX, 3-d.
 O VIELER ER.TB.160.332.S, 3-d.

Unrebated

VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O Additional 3rd hinge

O HEWI B9107.160 VX, 3-d.

- Unrebated ● VSX 7729/160 O FORM-VX7729/160 O VX 7729/160

O BSW 060-22 VX

O VIELER ER.TB.160.332.S

Ò 🕲

O HEWI B9107.160 VX

O Additional 3rd hinge

OSelf-bolting panic locks OLock with special security equipment

Hinge surface Galvanised

Matt nickel-plated

OPanic lock, lever-lever

Stainless steel

- OCode card lock system Forend surface
 - Galvanised Stainless steel

PZ-lock according to DIN 18250, backset 65 mm

OPanic lock, fixed knob on one side

- Handles 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette with rectangular backplate
- with long backplate OKnob-lever-set, fixed knob on one side
- OPanic pushbar OSecurity handle-set
- OCode card handle-set Handle surface Aluminium

Stainless steel

- Plastic material
- Overhead door closers
- according to DIN EN 1154

 GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83 ODORMA TS 93
- OGEZE TS 3000 OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer Automatic door operators according to DIN 18263

OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

OGEZE BTS 550 F-G

Floor-mounted door closers according to DIN EN 1154

OIntegrated hold-open device

Additional options for door closers

- OIntegrated hold-open device OFree-swing function
- with smoke detector OExternal smoke detector Door closer surface Silver-coloured
- Stainless steel Colour-coated
- Special equipment Retractable bottom seal

OClimate category III

- OElectrical strike ODoor viewer OBlock lock OBolt contact
- OMagnetic contact OCable channel OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)

OLead inlay for Radiation-Protection up to 4 mm

Standard



5-60

1-leaf door

Performance overview

El₂60-C5

T 60

Main function



Fire-Protection T 60

Optional function



O Smoke-Protection



● Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB



O Burglar-Protection WK 2



O Radiation-Protection

Models



5-60.00





Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	750-1314 1750-2500
	Clear passage LD-width Clear passage LD-height	686-1250 1718-2468
Din	Thickness of door leaf	70
	Solid door	0
ion	Door with vision panel	0
Configuration	Style door (profile beads)	0
Jigi	Climate category II	•
Col	Climate category III	0
	Stress group E (4)	•

ge	Rebated	0
Edge	Unrebated with jamb rebate	0
"	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
	Steel frame	0
န	Wooden wrap-around frame	0
Frames	Wooden block frame	О
	Folded wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



On request Standard



1-leaf door

Tender specifications

El₂60-C5

Information

For additional technical information please see appendix, indicated with



T 60-1 FORM-Fire-Protection-Door Model 21.00 / 21.10

Approval

Approval No. DIBt. Z-6.20-1946

Optional function

O Sound-Insulation Rw,P = 32 dB

Dimensions

BR-width x BR-height Throat opening

O Solid wall

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Backbend 9 mm
- Floor recess 30 mm

OSteel wrap-around frame, for solid wall

- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🕲 . . . O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame O Required face width
- .../...mm O Design in stainless steel
- O Sonderzargen O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm O Wooden block frame, architrave 45/60 mm

- O4-sided frame

Thickness of door leaf about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

104

- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

- OConcealed solid wood edge band, 2-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

- Pyrostop 60-10 (clear glass)
- OPyrostop 60-12 (patterned glass 504)

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OSpecial vision panel size 🗞 mm
- ODecorative beads on glass

Glazing beads

OSolid wood veneered

OSolid wood

Surfaces

Door leaf / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 vx, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX. 3-d.
- OAdditional 3rd hinge

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated
- VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX
- OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX
- OAdditional 3rd hinge
- O VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S

- Hinge surface
- Galvanised Matt nickel-plated Stainless steel
- Plastic material Brass-coloured

Unrebated

• VSX 7729/160, 3-d.

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

O Additional 3rd hinge

Unrebated

● VSX 7729/160

O Concealed hinges O HEWI B9107.160 VX

O Additional 3rd hinge

O VIELER ER.TB.160.332.S, 3-d.

O Concealed hinges
O HEWI B9107.160 VX, 3-d.

Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black OFS-handles according to DIN 18273
- with short backplate
 - with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Overhead door closers according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73

- ODORMA TS 83 ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000 Additional options for door closers
- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device
- with smoke detector External smoke detector
- Door closer surface
 Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- OElectrical strike
- ORetractable bottom seal (for Sound-Insulation-Function Standard)
- OBlock lock
- OBolt contact
- OMagnetic contact
- OSecurity bolts OKick plate (aluminium/stainless steel)



21 N

1-leaf door

Performance overview

El₂60-C5

T 60

Main function



Fire-Protection T 60

Optional function



O Sound-Insulation Rw,P = 32 dB



Models



21.00



Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	625-1125 1750-2125
	Clear passage LD-width Clear passage LD-height	561-1061 1718-2093
	Thickness of door leaf	70
u	Solid door	0
Configuration	Door with vision panel	0
	Style door (profile beads)	0
	Climate category II	•
O	Stress group E (4)	•

Edge	Rebated	0
	Unrebated with jamb rebate	О
Wand	Solid wall	•
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	0
	4-sided frame	0



For additional technical information please see appendix, indicated with i





Fire-Protection-Doors



2-leaf door

Tender specifications

For additional technical information please see appendix, indicated with

T 60-2 FORM-Fire-Protection-Door Model 4-60.00 / 4-60.10

Applied for approval

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 32 dB
- O Radiation-Protection

🕲 BR-width x BR-height

- O Solid wall OGasblock concrete wall (M)O Gypsum plasterboard wall (L)
- O Steel elements ≥ F 90A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:

 Backbend 15 mm
- Backbend 9 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🧠 /. mm
- O Decorative rebated frame, rebate depth mm
- Ouirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width 🧠 . . . /. . . . mm
- O Projecting frame
 O Frame for reconstruction
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

- O Folded wooden frame
- OFrame for reconstruction
- O4-sided frame

Thickness of door leaf about 50 mm meeting stiles unrebated with 2 rabbet ledges

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- Rebated (F)
- Unrebated (S)

- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

● Pyrostop 60-101 (clear glass)
Configuration

- OStandard
 - OFramed glazing
 - OAccording to DIN 68706
 - OVision panel, 215/1015 mm
 - OPorthole Ø 350, 400, 500 and 650 mm
 - OAs multiple glazed door
 - OSpecial vision panel size 🕲 mm
 - OIntermediate frieze ≥ 60 mm
 - ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

- VSX 7939/160, 3-d.
- OVX 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OVIELER ER.TB. 160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OSpring hinge FHX 7939/160, 3-d. OSpring hinge FHX 7729/160, 3-d. (only inactive leaf)
- OAdditional 3rd hinge
- O Additional 3rd hinge 00

Unrebated

● VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX, 3-d.

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated

- VSX 7939/160
- Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OSpring hinge FHX 7939/160
- (only inactive leaf) OAdditional 3rd hinge
- Unrebated
- VSX 7729/160 O VX 7729/160
- O BSW 060-22 VX
- O VIELER ER.TB.160.332.S
- O HEWI B9107.160 VX O Spring hinge FHX 7729/160 (only inactive leaf)
- O Additional 3rd hinge

- Galvanised - Plastic material
- Matt nickel-plated - Brass-coloured

- Galvanised

- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OCode card lock system

Forend surface

- Stainless steel
- Brass-plated

Handles

- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
 OFS-handles according to DIN 18273

- OKnob-lever-set
- OSecurity handle-set
 OCode card handle-set

Handle surface

- Stainless steel

Overhead door closers

- GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 5000 IS

Automatic door operators

- according to DIN 18263
- On active leaf
- OGEZE Slimdrive EMD F-IS

- Additional options for door closers OIntegrated hold-open device
- with smoke detector

External smoke detector

- Door closer surface
- Stainless steel
- Colour-coated O‱......
- OElectrical strike ODoor viewer ORetractable bottom seal (standard with Smoke-
- OBolt contact
- OMagnetic contact
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

Standard On request

El₂60-C5

Hinge surface

- Stainless steel Colour-coated

Spring hinge surface

- Matt nickel-plated
 Matt chrome-plated

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock lever-lever

- Galvanised
- 9 mm spindle
- with short backplate
- with rosette
- with rosette
 with rectangular backplate
 with long backplate
 Oone-sided lever set
- OPanic pushbar
- Aluminium

- Plastic material

- Door closer
- according to DIN EN 1154
- OGEZE TS 4000 IS
- OGEZE TSA 160 NT F-IS

ODORMA ED 100 / 200 / 250 ESR

- Floor-mounted door closers according to DIN EN 1154 OGEZE BTS 550 IS-G
- OFree-swing function for active leaf OIntegrated hold-open device
- Silver-coloured
- Special equipment
- OClimate category III
- Protection and Sound-Insulation function) OBlock lock
- OCable channel
 - - Please fill in



4-60

2-leaf door

Performance overview

El₂60-C5

T 60

Main function



Fire-Protection T 60

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 32 dB



O Radiation-Protection

Models







Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1250-2500 1750-2500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1186-2436 1718-2468
Din	Thickness of door leaf	50
Configuration	Solid door	0
	Door with vision panel	0
	Style door (profile beads)	O
	Climate category II	•
	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
	Unrebated	0
Walls	Solid wall	0
	Gasblock concrete wall	О
	Gypsum plasterboard wall	0
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	О
	Folded wooden frame	0
	4-sided frame	0



Information







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2-leaf door

Tender specifications

Hinge surface Galvanised

Matt nickel-plated

OPanic lock, lever-lever

Lever-lever

Forend surface

Stainless steel

Galvanised

- Brass-plated

9 mm spindle

with rosette

OKnob-lever-set

OPanic pushbar

Handle surface

Stainless steel

Plastic material

Aluminium

Handles

Fixed knob on one side

OCode card lock system

with short backplate

with long backplate
 One-sided lever set

OSecurity handle-set

OCode card handle-set

Overhead door closers

OGEZE TS 5000 IS

according to DIN EN 1154

Automatic door operators

according to DIN 18263

On active leaf
 OGEZE TSA 160 NT F-IS

OGEZE Slimdrive EMD F-IS

Floor-mounted door closers

according to DIN EN 1154

OIntegrated hold-open device

OIntegrated hold-open device

with smoke detector

External smoke detector

OGEZE BTS 550 IS-G

ODORMA ED 100 / 200 / 250 ESR

Additional options for door closers

OFree-swing function for active leaf

• GEZE TS 5500 IS / DORMA TS 93 GSR OGEZE TS 4000 IS

ODORMA ITS 96 GSR / GEZE Boxer ISM

- with rectangular backplate

Stainless steel

El₂60-C5

- Plastic material

- Brass-coloured

- Colour-coated

PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock

OPanic lock, fixed knob on one side

OPanic lock in both leafs, inactive leaf

Inactive leaf with one-sided lever

with concealed panic shot-bolt lock

◆FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black

OFS-handles according to DIN 18273

For additional technical information please see appendix, indicated with



T 60-2 FORM-Fire-Protection-Door Model 6-60.00 / 6-60.10

Approval

Applied for approval

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Radiation-Protection

Dimensions

					Е	3F	₹-	٧	۷İ	ď	th	1	Х			BR-height
\otimes																Throat opening

O Solid wall	(M
O Gasblock concrete wall	(M
O Gypsum plasterboard wall	(L
OSteel elements ≥ F 90A	

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mm
- without floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🐿 .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width 🐿 .
- O Projecting frame
 O Frame for reconstruction
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Folded wooden frame
- OFrame for reconstruction
- O4-sided frame

Thickness of door leaf about 70 mm, meeting stiles double-rebated

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)

 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
 OConcealed solid wood edge band, 2-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

● Pyrostop-Phonstop 60-101 (clear glass)

OPyrostop-Phonstop 60-171

Configuration

OStandard

- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
 OSpecial vision panel size \$\infty\$ mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated/Double-rebated for Rw,P = 42 dB

- VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for RW,P = 37 dB
- VSX 7939/160, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB. 160.337.F, 3-d.
- OHEWI B8107.160 VX. 3-d.
- OAdditional 3rd hinge O® . . .

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated/Double-rebated Unre Unrebated

- for Rw,P = 42 dB
- VX 7939/160 FD OBSW 060-21 VX FD for Rw,P = 37 dB
- VSX 7939/160
- Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge 0 №

- Unrebated VSX 7729/160, 3-d.
- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
 O VIELER ER.TB.160.332.S, 3-d.
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge

● VSX 7729/160

O VX 7729/160

O BSW 060-22 VX

O VIELER ER.TB.160.332.S

O HEWI B9107.160 VX

O Additional 3rd hinge

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- Retractable bottom seal
- OClimate category III OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



6-60

2-leaf door

Performance overview

El₂60-C5

T 60

Main function



Fire-Protection T 60

Optional function



O Smoke-Protection



Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB



O Radiation-Protection

Models

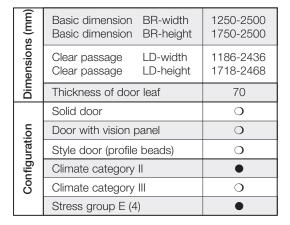


6-60.00



6-60.10

Performance profile



ge	Rebated	0
Edge	Unrebated with jamb rebate	0
"	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
	Steel frame	0
န္	Wooden wrap-around frame	0
Frames	Wooden block frame	0
ᇤ	Folded wooden frame	0
	4-sided frame	0



Information







Tender specifications

El₂90-C5

For additional technical information please see appendix, indicated with

T 90-1 FORM-Fire-Protection-Door Model 3-90.00

Approval

Approval No. DIBt. Z-6.20-1933

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 36 dB
- O Sound-Insulation Rw,P = 32 dB

BR-width x BR-height Throat opening

- O Solid wall (M)O Gasblock concrete wall (M) O Gypsum plasterboard wall (L)
- O Covered steel structural element ≥ F 120A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Backbend 9 mm
- Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- O Steel block frame
- Standard installation
- Installation in hallways O Round-shaped frame
- OFace expansion

 /.....mm
- O Quirk frame
- O Required face width 🕲 .../...mm
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) OWooden wrap-around frame, architrave 60/60 mm O Wooden block frame, architrave 45/60 mm

O4-sided frame

Thickness of door leaf about 50 mm

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided

Edges

- Veneer edge
- OPlastic material edge
- OColour-coated edge

Surfaces

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated

- VX 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- Ozusätzlich 3. Band

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated

- VX 7939/160
- OBSW 060-21 VX
- OVIELER ER.TB.160.337.F OHEWI B8107.160 VX
- Ozusätzlich 3. Band
- Ō®...
- Hinge surface

Galvanised

- Matt nickel-plated
- Stainless steel
- Plastic material

Unrebated

VX 7729/160

O BSW 060-22 VX

O VIELER ER.TB.160.332.S

O №

O HEWI B9107,160 VX

O zusätzlich 3. Band

Unrebated

VX 7729/160, 3-d.

O zusätzlich 3. Band

O BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX, 3-d.

- Brass-coloured Colour-coated

Locks

- PZ-lock according to DIN 18250, backset 65 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set

 Handle surface
- Aluminium
- Stainless steel
- Plastic material
- О७

Overhead door closers

- according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000
- Automatic door operators

according to DIN 18263 OGEZE TSA 160 NT F OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Floor-mounted door closers

according to DIN EN 1154

OGEZE BTS 550 F-G Additional options for door closers OIntegrated hold-open device OFree-swing function

- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated O[©].....

Special equipment

- OClimate category III
- OElectrical strike
- ODoor viewer ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel
- OConcealed cable transition OSecurity bolts OKick plate (aluminium/stainless steel)

Standard

On request

Please fill in

110



3-90

1-leaf door

Performance overview

El₂90-C5

T 90

Main function



● Fire-Protection T 90

Optional function



O Smoke-Protection



 \odot Sound-Insulation Rw,P = 36 dB \odot Sound-Insulation Rw,P = 32 dB



Models



3-90.00

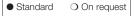
Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 1750-2500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1250 1718-2468
Din	Thickness of door leaf	50
_	Solid door	0
atio	Style door (profile beads)	0
gur	Climate category II	•
Configuration	Climate category III	0
ပ	Stress group E (4)	•

Edge	Rebated	О
찝	Unrebated	0
w	Solid wall	О
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	О
	Steel frame	О
nes	Wooden wrap-around frame	0
Frames	Wooden block frame	0
-	4-sided frame	0



Information





Tender specifications

El₂90-C5

Information

For additional technical information please see appendix, indicated with

T 90-1 FORM-Fire-Protection-Door Model 8.00 / 8.10

Approval

Approval No. DIBt. Z-6.20-1933

Optional function

- O Smoke-Protection
- OSound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB
- O Burglar-Protection WK 2
- OBurglar-Protection WK 3

Dimensions

					В	ŀΕ	}-	W	/io	dt	th	1	Х			BR-height
																Throat opening

Walls

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
O Lightweight firewall systems	(L)
OF 90-Glazing type 90 V	(F)
O Covered steel structural element > F 120A	

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mm without floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
 Round-shaped frame
- OFace expansion 🦠 /. mm
- O Decorative rebated frame, rebate depth mm
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening Trapezoid anchor fastening
- O Projecting frame up to 100 mm
- O Required face width 🧠 .../...mm O Frame for reconstruction
- O Design in stainless steel
- O 4-sided frame O Sheet thickness 2 mm

- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

112

- O Solid wooden frame, 70/73 mm
- O Projecting frame up to 25 mm O Fixed side panel
- O4-sided frame

Door leaf

- Thickness of door leaf about 70 mm
- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beadswith frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

- Pyrostop 90-102 (clear glass)
- OPyrostop 90-121 (patterned glass 504)

Configuration

- **O**Standard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🧠 .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

- VX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107,160 VX, 3-d.
- OAdditional 3rd hinge

- Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)
- Rebated ● VX 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge Ò.....
- Unrebated

Unrebated

VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O Concealed hinges
O HEWI B9107.160 VX, 3-d.

O Additional 3rd hinge

- VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges O HEWI B9107.160 VX O Additional 3rd hinge

Ò.....

Hinge surface

- Galvanised Matt nickel-plated
- Plastic material - Brass-coloured
- Stainless steel
- Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set

 Handle surface
 - Aluminium
- Stainless steel
- Plastic material ○◎

Overhead door closers

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73 ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer
- Automatic door operators according to DIN 18263 OGEZE TSA 160 NT F OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F-G

- Additional options for door closers
- OIntegrated hold-open device
- OFree-swing function OIntegrated hold-open device
- with smoke detector External smoke detector
- Door closer surface
- Silver-coloured
- Stainless steel
- Colour-coated Ο⊚
- Special equipment
- OClimate category III OElectrical strike
- ODoor viewer ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function) OBlock lock
- OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



8 N

1-leaf door

Performance overview

El₂90-C5

T 90

Main function



● Fire-Protection T 90

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2

O Burglar-Protection WK 3





8.00





Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 1750-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1436 1718-2968
Dir	Thickness of door leaf	70
	Solid door	0
on	Door with vision panel	0
ırati	Style door (profile beads)	0
Configuration	Climate category II	•
Con	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
Ed	Unrebated with jamb rebate	0
	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Glazing type 90 V	0
	Steel frame	0
ရွ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
뇬	Solid wooden frame	О
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i

● Standard On request



Tender specifications

El₂90-C5

Information

For additional technical information please see appendix, indicated with



T 90-1 FORM-Fire-Protection-Door Model 80-1.00

Approval

Approval No. DIBt. Z-6.20-1933

Optional function

- Sound-Insulation Rw,P = 42 dB
- O Smoke-Protection
- O Burglar-Protection WK 2

Dimensions

Section Se	
Walls	

RR-width v

O Solid wall	(M
O Gasblock concrete wall	(M
O Gypsum plasterboard wa	ll (L
O Leightweight firewall syste	ems (L
OF 90-Glazing type 90 V	(F
O Covered steel structural e	element > F 1204

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm
- Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion ⑤ / mm
 O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame up to 100 mm
 O Required face width . . . / mm
- O Frame for reconstruction
- ODesign in stainless steel
- O4-sided frame
- OSheet thickness 2 mm OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm
- OFolded wooden frame, 70/95 mm
- O Projecting frame up to 25 mm
- O Fixed side panel
- O4-sided frame

Door leaf

Thickness of door leaf about 91 mm,

- Rebated (F)
- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
 OColour-coated edge

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable

- Double-rebated ● VX7939/160-4 N FD ○ BSW090-745/160 DF, VX OAdditional 3rd hinge
- O VX7729/160-4 N O BSW090-747/160, VX O Additional 3rd hinge O Additional 4th hinge

Unrebated

- OAdditional 4th hinge
- Wooden frames
- Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable (VHX) Unrebated
- Double-rebated VX7939/160-4 N FD OBSW090-745/160 DF, VX OAdditional 3rd hinge
- O VX7729/160-4 N O BSW090-747/160, VX O Additional 3rd hinge
- Additional 4th hinge Hinge surface
- Galvanised
- Matt nickel-plated Brass-coloured Stainless steel Colour-coated
- O Additional 4th hinge

- PZ-lock according to DIN 18250, backset 80 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set

 Handle surface
- Aluminium
- Stainless steel
- Plastic material

Overhead door closers

according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73

- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operators

- according to DIN 18263 OGEZE TSA 160 NT F OGEZE Slimdrive EMD F
- ODORMA ED 100 / 200 / 250

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F-G Additional options for door closers OIntegrated hold-open device OFree-swing function

- OIntegrated hold-open device
- with smoke detector OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- 2 retractable bottom seals
- OClimate category III
- OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)



80-1

1-leaf door

Performance overview

El₂90-C5

T 90

Main function



Fire-Protection T 90

Optional function



O Smoke-Protection



Sound-Insulation Rw,P = 42 dB



O Burglar-Protection WK 2



Models



80-1.00

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-1500 1750-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	781-1406 1703-2953
Dir	Thickness of door leaf	91
L	Solid door	0
Configuration	Style door (profile beads)	0
gur	Climate category II	•
onfi	Climate category III	О
O	Stress group E (4)	•

	Rebated	0
Edge	Double-rebated	•
"	with double jamb rebate	0
	Solid wall	О
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing type 90 V	О
	Steel frame	0
ဖွ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Ĕ	Solid wooden frame	0
	4-sided frame	0









Tender specifications

El₂90-C5

Information

For additional technical information please see appendix, indicated with



T 90-1 FORM-Fire-Protection-Door Model 91.10

Approval

Approval No. DIBt. Z-6.15-1736

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB

Dimensions

					Е	BF	₹-	V	/io	ď	th	1	Х			BR-height
																Throat opening

Walls

O Solid wall
OGasblock concrete wall
OGypsum plasterboard wall
OF 90-Glazing type 90 V
O Covered steel elements ≥ F 120A

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- Solid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways O Fixed side panel
- O4-sided frame

Door leaf

Frame thickness 110 mm.

- Unrebated with double jamb rebate (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer

Vision panel

Type of glass

Pyrostop 90-102 (clear glass)
 OPyrostop 90-121 (patterned glass 504)

OContraflam 90-N2

Configuration

Owithout middle frieze, minimum frame widths side/top/bottom 100 mm,

on request with bar ≥ 60 < 150 mm

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- O VX 7729/160-4 N
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OConcealed hinges
 OHEWI B9107.160 VX
- OAdditional 3rd hinge
- OAdditional 4th hinge

Hinge surface

- Galvanised Matt nickel-plated
- Plastic material - Brass-coloured

- Stainless steel
- Colour-coated

Locks

 Locks for narrow style doors with overhead bolting mechanism

OPanic lock, fixed knob on one side

- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OCode card lock system Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material with oval rosette, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closers according to DIN EN 1154

- GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operators

according to DIN 18263 OGEZE TSA 160 NT F

OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F-G

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
 OIntegrated hold-open device with smoke detector

OExternal smoke detector Door closer surface

- Silver-coloured Stainless steel
- Colour-coated
- О७

Special equipment

- OElectrical strike
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact

2 Security bolts

- OMagnetic contact OCable channel
- OConcealed cable transition

OKick plate (aluminium/stainless steel)

1-leaf door

Performance overview

El₂90-C5

T 90

Main function



Fire-Protection T 90

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 42 dB

O Sound-Insulation Rw,P = 37 dB



Models



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	806-1431 1778-3028
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	656-1281 1703-2953
٦	Thickness of door leaf	110
a-	Solid wood framed door	0
Configura- tion	Solid wood framed style door (coffer, panel)	0
ŏ	Climate category II	•

Edge	with double jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Glazing type 90 V	0
Frames	Solid wooden frame	0
Frai	4-sided frame	0

Information









91 N Slimline

1-leaf door

Tender specifications

El₂90-C5

For additional technical information please see appendix, indicated with



T 90-1 FORM-Fire-Protection-Door Model 91.10 Slimline

Approval

Applied for approval

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 37 dB

Dimensions

					Е	BF	ξ-	٧	/io	dt	th	1	X			BR-height
																Throat opening

O Solid wall	(M
O Gasblock concrete wall	(M
O Gypsum plasterboard wall	(L
OF 90-Glazing type 90 V	(F
O Covered steel elements ≥ F 120A	

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- Solid wooden frame
- Standard installation
- Installation in hallways
- O Fixed side panel O4-sided frame

Frame thickness 110 mm

■ Solid wood framed door, climate category II

Fire protection glass

Vision panel

Type of glass

Promaglas 90 (clear glass)

Configuration

Owithout middle frieze, minimum frame widths side/top/bottom 30/30/30 mm, on request with bar ≥ 55 < 150 mm

ODecorative beads on glass **Glazing beads**

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated

On site coating/undercoating foil

OColour-coated

O.....

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VX 7729/160-4 N
- OBSW 060-22 VX
 OVIELER ER.TB.160.332.S
- OConcealed hinges OHEWI B9107,160 VX
- OAdditional 3rd hinge
- OAdditional 4th hinge
- ○◎

Hinge surface - Galvanised

- Plastic material
- Matt nickel-plated Stainless steel
- Brass-coloured Colour-coated

- ODIN 18250
- OLocks for narrow style doors with overhead bolting mechanism
 OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

9 mm spindle

OFS-handles according to DIN 18273 with oval rosette, RAL 9005 black

OFS-handles, plastic material

- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side

OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closers according to DIN EN 1154

ODORMA ITS 96 / GEZE Boxer OGEZE TS 4000 / DORMA TS 73

ODORMA TS 83 ODORMA TS 93

OGEZE TS 5000

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F-G

Additional options for door closers

OIntegrated hold-open device

OFree-swing function
OIntegrated hold-open device with smoke detector

OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated О७.....

Special equipment

OElectrical strike

ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)

OSill seal with aluminium threshold

OBolt contact

OMagnetic contact

2 Security bolts

OKick plate (aluminium/stainless steel)



91 N Slimline

1-leaf door

Tender specifications

El₂90-C5 T 90

Main function



Fire-Protection T 90

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB



Models



91.10 SL

Performance profile

s (mm)	Basic dimension Basic dimension	BR-width BR-height	according to request
Dimensions (mm)	Clear passage Clear passage	according to request	
Οin	Thickness of door	r leaf	110
Configura- tion	Solid wood frame	d door	0
Confi tic	Climate category	II	•

	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Glazing type 90 V	0
ames	Solid wooden frame	0
Frar	4-sided frame	0











1-leaf door, with top panel

Tender specifications

El₂90-C5

For additional technical information please see appendix, indicated with



T 90-1 FORM-Fire-Protection-Door Model 8.01 / 8.11 / 8.02 / 8.12

Approval

Approval No. DIBt. Z-6.20-1933

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 37 dB

Dimensions

					Е	ßF	ξ-	V	/io	ď	th	1	Х			BR-height
																Throat opening

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
O Leightweight firewall systems	(L)
OF 90-Glazing type 90 V	(F)
O Covered steel structural element > F 120	Δ

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall: - Backbend 15 mm

- Backbend 9 mm - Floor recess 30 mm
- without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion 🐿 .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Projecting frame up to 100 mm
- O Required face width 🧠 .../...mm
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

120

- O Wooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- O Projecting frame up to 25 mm
- O Fixed side panel
- O4-sided frame

Door leaf

- Thickness of door leaf about 70 mm
- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid door, climate category I
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop 90-102 (clear glass)
 OPyrostop 90-121 (patterned glass 504)

Configuration OStandard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized OStainless steel (porthole Ø 350 mm)

- OTop panel
- Counter-rebated with rabbet ledge
 OFanlight with transom and Fire protection glass

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

- VX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge
- O® Wooden frames

Unrebated VX 7729/160, 3-d.

- O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
 O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge
- O 🕲

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated VX 7939/160 OBSW 060-21 VX
- OVIELER ER.TB.160.337.F OHEWI B8107,160 VX OAdditional 3rd hinge

- Unrebated ● VX 7729/160
- O BSW 060-22 VX
- O VIELER ER.TB.160.332.S O Concealed hinges O HEWI B9107,160 VX O Additional 3rd hinge

O 🕲

Hinge surface

- Galvanised Matt nickel-plated
- Plastic material Brass-coloured Colour-coated
- Stainless steel

- PZ-lock according to DIN 18250, backset 65 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set

 Handle surface
- Aluminium
- Plastic material

Overhead door closers

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73 ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer
- Automatic door operators according to DIN 18263 OGEZE TSA 160 NT F

OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Floor-mounted door closers

according to DIN EN 1154 OGEZE BTS 550 F-G

- Additional options for door closers
- OIntegrated hold-open device
- OFree-swing arms
- OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface
- Silver-coloured Stainless steel
- Colour-coated Ο◎......
- Special equipment
- OClimate category III
- OElectrical strike ODoor viewer
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OBlock lock OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts OKick plate (aluminium/stainless steel)

Standard On request

Please fill in



8 N

1-leaf door, with top panel

Performance overview

El₂90-C5 T 90

Main function



• Fire-Protection T 90

Optional function



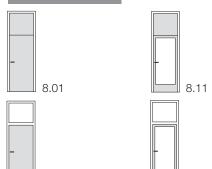
O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB



lodals





8.02

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-4000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-3968 1718-2968
Din	Thickness of door leaf	70
	Solid door	0
ion	Door with vision panel	О
Configuration	Style door (profile beads)	О
ıfigı	Climate category II	•
S	Climate category III	О
	Stress group E (4)	•

Edge	Rebated	0
Ed	Unrebated with jamb rebate	О
	Solid wall	0
S	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
	Glazing type 90 V	О
	Steel frame	0
Sé	Wooden wrap-around frame	О
Frames	Wooden block frame	О
Ā	Solid wooden frame	О
	4-sided frame	0



Information





Tender specifications

For additional technical information please see appendix, indicated with



T 90-2 FORM-Fire-Protection-Door Model 24.00 / 24.10

Approval

Approval No. DIBt. Z-6.20-1933

Optional function

- O Smoke-Protection
- OSound-Insulation Rw,P = 37 dB
- O Burglar-Protection WK 2

Dimensions

					E	3F	₹-	V	۷i٥	dt	th	1	Х			BR-height
																Throat opening

O Solid wall	(M
O Gasblock concrete wall	(N
O Gypsum plasterboard wa	ll (L
O Leightweight firewall syste	ems (L
OF 90-Glazing type 90 V	(F
O Covered steel structural e	element > F 1204

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mmwithout floor recess
- Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways

- O Round-shaped frame
 O Face expansion \$\simeq \cdots / \cdots \cdots mm
 O Decorative rebated frame, rebate depth \cdots mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- OProjecting frame up to 100 mm
 ORequired face width இ . . . / . . . mm
- O Frame for reconstruction
- ODesign in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

122

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm
- O Projecting frame up to 25 mm
- O Fixed side panel
- O4-sided frame

Door leaf

Thickness of door leaf about 70 mm,

meeting stiles rebated, with rabbet ledge push side – Rebated (F)

- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

Pyrostop 90-102 (clear glass)
 OPyrostop 90-121 (patterned glass 504)

Configuration

- OStandard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
 ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

● VX 7939/160, 3-d.

OBSW 060-21 VX, 3-d.

OVELER ER TR 160 337 F. 3-d. OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge O[®].....

Unrebated

- VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S. 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge
- 0

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated Unrebated

- VX 7939/160 BSW 060-21 VX
- OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge
- VX 7729/160 DSW 060-22 VX
- O VIELER ER.TB.160.332.S
- O Concealed hinges O HEWI B9107.160 VX
- O Additional 3rd hinge

Hinge surface

- Galvanised
- Plastic material Brass-coloured
- Matt nickel-plated Stainless steel
- Colour-coated

● PZ-lock according to DIN 18250, backset 65 mm,

El₂90-C5

- inactive leaf with concealed shot-bolt lock
 OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

9 mm spindle

- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
 One-sided lever set
- OKnob-lever-set OPanic pushbar

OSecurity handle-set

- Handle surface Aluminium
- Stainless steel
- Plastic material O[©].....

Door closer

Overhead door closers

according to DIN EN 1154 OGEZE TS 5500 IS / DORMA TS 93 GSR

OGEZE TS 4000 IS

OGEZE TS 5000 IS ODORMA ITS 96 GSR / GEZE Boxer ISM

Automatic door operators

- according to DIN 18263 On active leaf
- On active and inactive leaf
- OGEZE TSA 160 NT F-IS OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 IS-G Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function for active leaf OIntegrated hold-open device
- with smoke detector

OExternal smoke detector Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated
- Ο಄...... Special equipment
- OClimate category III
- OElectrical strike ODoor viewer ORetractable bottom seal (standard with Smoke-
 - Protection and Sound-Insulation function)
- OBlock lock OBolt contact
- OMagnetic contact
 OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)

Standard On request

Please fill in



24 N

2-leaf door

Performance overview

El₂90-C5

T 90

Main function



● Fire-Protection T 90

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB



O Burglar-Protection WK 2



Models



24.00



24.10



Flap 24.00 KL



Flap 24.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1125-3000 1750-3000				
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1061-2936 1718-2968				
Dir	Thickness of door leaf	70				
	Solid door	0				
ioi	Door with vision panel	0				
Configuration	Style door (profile beads)	0				
ηfig	Climate category II	•				
S	Climate category III O					
	Stress group E (4)	•				

Edge	Rebated	О
Ed	Unrebated with jamb rebate	О
	Solid wall	О
Walls	Gasblock concrete wall	О
Wa	Gypsum plasterboard wall	О
	Glazing type 90 V	О
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
ᇤ	Solid wooden frame	0
	4-sided frame	0



Information





Tender specifications

El₂90-C5

Information

For additional technical information please see appendix, indicated with



T 90-2 FORM-Fire-Protection-Door Model 80-2.00

Approval

Approval No. DIBt. Z-6.20-1933

Optional function

● Sound-Insulation Rw,P = 42 dB

O Smoke-Protection

BR-width x BR-height Throat opening

O Solid wall	(M
O Gasblock concrete wall	(M
O Gypsum plasterboard wall	(L
O Leightweight firewall syste	ms (L
OF 90-Glazing type 90 V	(F
O Covered steel structural el	ement > F 120A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall: - Backbend 15 mm

- Backbend 9 mm - Floor recess 30 mm

- without floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

Standard installation

Installation in hallways

O Round-shaped frame

OFace expansion 🐿 .

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

OFrame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening

O Projecting frame up to 100 mm
O Required face width [®] .../...mm
O Frame for reconstruction

O Design in stainless steel

O4-sided frame

OSheet thickness 2 mm

OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

124

O Wooden block frame, architrave 45/75 mm

O Folded wooden frame, 70/95 mm

OProjecting frame up to 25 mm

O Fixed side panel O4-sided frame

Thickness of door leaf about 91 mm, meeting stiles rebated with rabbet ledge push side

- Rebated (F)
- Double-rebated (D)
- Unrebated with double jamb rebate
- Solid door, climate category II
- Stress group E (4)
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

Solid wood batten, white/red wood, 3-sided

OVeneer edge
OPlastic material edge

OColour-coated edge

О७.....

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated

OHigh pressure laminate (HPL), 0.8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable

Double-rebated ● VX7939/160-4 N FD OBSW090-745/160 DE, VX

O VX7729/160-4 N O BSW090-747/160, VX O Additional 3rd hinge

Unrebated

OAdditional 3rd hinge OAdditional 4th hinge

O Additional 4th hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable (VHX) Unrebated

Double-rebated VX7939/160-4 N FD

O VX7729/160-4 N OBSW090-745/160 DF, VX O BSW090-747/160, VX OAdditional 3rd hinge O Additional 3rd hinge OAdditional 4th hinge

Hinge surface

Matt nickel-plated

O Additional 4th hinge

- Galvanised
 - Brass-coloured Stainless steel

- PZ-lock according to DIN 18250, backset 80 mm, inactive leaf with concealed shot-bolt lock
 OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
 One-sided lever set
- OKnob-lever-set
- OPanic pushbar
- OSecurity handle-set

Handle surface

- Aluminium Stainless steel
- Plastic material

Door closer

Overhead door closers

according to DIN EN 1154 OGEZE TS 5500 IS / DORMA TS 93 GSR

OGEZE TS 4000 IS

OGEZE TS 5000 IS ODORMA ITS 96 GSR / GEZE Boxer ISM

Automatic door operators according to DIN 18263

On active leaf

On active and inactive leaf

OGEZE TSA 160 NT F-IS OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR

Floor-mounted door closers

according to DIN EN 1154 OGEZE BTS 550 IS-G

Additional options for door closers

OIntegrated hold-open device OFree-swing function for active leaf OIntegrated hold-open device

with smoke detector OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel Colour-coated

Special equipment

- 2 retractable bottom seals
- OClimate category III OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
- OMagnetic contact OCable channel OConcealed cable transition
- OSecurity bolts

OKick plate (aluminium/stainless steel)

Standard

On request

Please fill in



80-2

2-leaf door

Performance overview

El₂90-C5

T 90

Main function



● Fire-Protection T 90

Optional function



O Smoke-Protection



Sound-Insulation Rw,P = 42 dB



V resulted to



80-2.00

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1500-3000 1750-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1406-2906 1703-2953
Dir	Thickness of door leaf	91
Ξ	Solid door	0
Configuration	Style door (profile beads)	0
igur	Climate category II	•
onfi	Climate category III	0
0	Stress group E (4)	•

σ.	Rebated	0
Edge	Double-rebated	•
"	with double jamb rebate	О
	Solid wall	О
S	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing type 90 V	0
	Steel frame	0
ရွ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
표	Solid wooden frame	0
	4-sided frame	0



Information





Tender specifications

El₂90-C5

Information

For additional technical information please see appendix, indicated with



T 90-2 FORM-Fire-Protection-Door Model 92.10

Approval

Approval No. DIBt. Z-6.15-1737

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB

					Е	3F	₹-	V	۷İ	d	th	1	×	(BR-height
																Throat opening

Walls

O Solid wall
O Gasblock concrete wall
OGypsum plasterboard wall
OF 90-Glazing type 90 V
O Covered steel elements ≥ F 120A

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- Solid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- O Fixed side panel O4-sided frame

Door leaf

Frame thickness 110 mm. meeting stiles double-rebated

- Unrebated with double jamb rebate (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer

Vision panel

Type of glass

Pyrostop 90-102 (clear glass)
 OPyrostop 90-121 (patterned glass 504)

OContraflam 90-N2

Configuration

Owithout middle frieze, minimum frame widths side/top/bottom 100 mm,

on request with bar ≥ 60 < 150 mm

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- O VX 7729/160-4 N
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OConcealed hinges
 OHEWI B9107.160 VX
- OAdditional 3rd hinge
- OAdditional 4th hinge

Hinge surface Galvanised

- Matt nickel-plated
- Plastic material - Brass-coloured
- Stainless steel
- Colour-coated

Locks

- Locks for narrow style doors with overhead bolting mechanism
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material with oval rosette, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- One-sided lever set
- OKnob-lever-set
- OPanic pushbar
- OCode card handle-set Handle surface

Aluminium

- Stainless steel
- Plastic material

Door closer

Overhead door closers

according to DIN EN 1154 ● GEZE TS 5500 IS / DORMA TS 93 GSR

OGEZE TS 4000 IS

OGEZE TS 5000 IS

ODORMA ITS 96 GSR / GEZE Boxer ISM

Automatic door operators according to DIN 18263

OGEZE TSA 160 NT F-IS OGEZE Slimdrive EMD F-IS

ODORMA ED 100 / 200 / 250 ESR

only active-leaf

Floor-mounted door closers

according to DIN EN 1154 OGEZE BTS 550 IS-G

Additional options for door closers

OIntegrated hold-open device

OFree-swing function for active leaf OIntegrated hold-open device

with smoke detector OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- OElectrical strike
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- 2 Security bolts
- OKick plate (aluminium/stainless steel)



92 N

2-leaf door

Performance overview

El₂90-C5

T 90

Main function



● Fire-Protection T 90

Optional function



O Smoke-Protection



- O Sound-Insulation Rw,P = 42 dB
- \odot Sound-Insulation Rw,P = 37 dB



Models



92.10

Performance profile

s (mm)	Basic dimension Basic dimension	1431-2806 1778-3028	
Dimensions (mm)	Clear passage Clear passage	1281-2656 1703-2953	
ä	Thickness of door	leaf	110
а-	Solid wood frame	d door	0
Configura- tion	Solid wood frame (coffer, panel)	О	
ŏ	Climate category	II	•

Edge	with double jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
8	Gypsum plasterboard wall	0
	Glazing type 90 V	0
Frames	Solid wooden frame	0
Frai	4-sided frame	0

Information







92 N Slimline

2-leaf door

Tender specifications

El₂90-C5

For additional technical information please see appendix, indicated with



T 90-2 FORM-Fire-Protection-Door Model 92.10 Slimline

Approval

Applied for approval

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 37 dB

Dimensions

					Е	3F	₹-	v	۷İ	ď	th	1	>	(BR-heigh
																Throat opening

Walls

O Solid wall	(M)
OGasblock concrete wall	(M)
	, ,
O Gypsum plasterboard wall	(L)
OF 90-Glazing type 90 V	(F)
O Covered steel elements ≥ F 120A	

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

Solid wooden frame, 85/140 mm

- Standard installation
- Installation in hallways
- O Fixed side panel O4-sided frame

Frame thickness 110 mm, meeting stiles double-rebated – Unrebated

- Solid wood framed door, climate category II
- Fire protection glass

Vision panel

Type of glass

● Promaglas 90 (clear glass)
Configuration

Owithout middle frieze, minimum frame widths side/top/bottom 30/30/30 mm, side of middle frieze ≥ 85,on request with bar ≥ 60 < 150 mm /

ODecorative beads on glass **Glazing beads**

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- On site coating/undercoating foil
- OColour-coated
- O.....

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VX 7729/160-4 N
- OBSW 060-22 VX OVIELER ER.TB.160.332.S
- OConcealed hinges OHEWI B9107,160 VX
- OAdditional 3rd hinge OAdditional 4th hinge
- O◎...

Hinge surface - Galvanised

- Plastic material Matt nickel-plated - Brass-coloured
- Stainless steel
- Colour-coated

- Locks for narrow style doors with overhead bolting mechanism
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material with oval rosette, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- One-sided lever set
- OKnob-lever-set
- OPanic pushbar
- OCode card handle-set

Handle surface

- Aluminium Stainless steel
- Plastic material

Door closer

Floor-mounted door closers according to DIN EN 1154 • GEZE BTS 550 IS-G

Overhead door closers

according to DIN EN 1154 OGEZE TŠ 5500 IS / DORMA TS 93 GSR

- OGEZE TS 4000 IS
- OGEZE TS 5000 IS
- ODORMA ITS 96 GSR / GEZE Boxer ISM

Automatic door operators according to DIN 18263 OGEZE TSA 160 NT F-IS

- OGEZE Slimdrive EMD F-IS
- ODORMA ED 100 / 200 / 250 ESR only active-leaf

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function for active leaf
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- OElectrical strike
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OBolt contact
- OMagnetic contact 2 Security bolts
- OKick plate (aluminium/stainless steel)



92 N Slimline

Performance overview

El₂90-C5 T 90

Main function



● Fire-Protection T 90

Optional function

O Sound-Insulation Rw,P = 37 dB





92.10 SL

Performance profile

s (mm)	Basic dimension Basic dimension	BR-width BR-height	1750-2626 1875-2563
Dimensions (mm)	Clear passage Clear passage	LD-width LD-height	1560-2436 1718-2468
٦	Thickness of door	110	
Configura- tion	Solid wood frame	O	
Confi tic	Climate category	II	•

Edge	Unrebated	•
	Solid wall	0
Walls	Gasblock concrete wall	0
8	Gypsum plasterboard wall	0
	Glazing type 90 V	0
Frames	Solid wooden frame	0
Frai	4-sided frame	0

Information

For additional technical information please see appendix, indicated with i





Fire-Protection-Doors



2-leaf door

O Smoke-Protection





2-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



T 90-2 FORM-Fire-Protection-Door Model 24.01 / 24.11 / 24.02 / 24.12

Approval No. DIBt. Z-6.20-1933

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 37 dB

Dimensions

					Е	3F	₹-	V	۷İ	dt	th	1	Х			BR-height
																Throat opening

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wa		(L)
O Leightweight firewall syste	ems	(L)
OF 90-Glazing type 90 V		(F)
O Covered steel structural of	lement > F 120A	

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm
- Backbend 15 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion 🐿 .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Projecting frame up to 100 mm
- O Required face width 🧠 .../...mm
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

130

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm O Projecting frame up to 25 mm
- O Fixed side panel
- O4-sided frame

Thickness of door leaf about 70 mm, meeting stiles rebated with rabbet ledge push side

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
 Oboor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

- Type of glass

 Pyrostop 90-102 (clear glass)

 OPyrostop 90-121 (patterned glass 504)

Configuration

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door OSpecial vision panel size 🔊
- ODecorative beads on glass
- Glazing beads

- OSolid wood veneered OSolid wood
- OAluminium untreated/anodized OStainless steel (porthole Ø 350 mm)

- OTop panel
- Counter-rebated, with rabbet ledge
- OFanlight with transom and Fire protection glass

Door leaf / Top panel / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

● VX 7939/160, 3-d.

- OBSW 060-21 VX. 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Unrebated

- VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
 O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX. 3-d.

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated Unrebated

- VX 7939/160
- OVIELER ER.TB.160.337.F
- OAdditional 3rd hinge

- O Additional 3rd hinge 0 №

Wooden frames

- VX 7729/160
- OBSW 060-21 VX O BSW 060-22 VX
- O VIELER ER.TB.160.332.S OHEWI B8107.160 VX O Concealed hinges
- O HEWI B9107.160 VX O Additional 3rd hinge Ō 🕲

El₂90-C5

Hinge surface

- Galvanised - Plastic material
- Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever OPanic lock in both leafs, inactive leaf
- with concealed panic shot-bolt lock Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- One-sided lever set
- OKnob-lever-set OPanic pushbar

OSecurity handle-set

- Handle surface Aluminium
- Stainless steel
- Plastic material

Door closer Overhead door closers

- according to DIN EN 1154

- GEZE TS 5500 IS / DORMA TS 93 GSR GEZE TS 4000 IS GEZE TS 5000 IS ODORMA ITS 96 GSR / GEZE Boxer ISM

Automatic door operators

- according to DIN 18263
- On active leaf
- On active and inactive leaf
- OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR

Floor-mounted door closers according to DIN EN 1154

- OGEZE BTS 550 IS-G Additional options for door closers
- OIntegrated hold-open device OFree-swing function for active leaf OIntegrated hold-open device
- with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated
- Special equipment
- OClimate category III OElectrical strike
- ORetractable bottom seal (standard with Smoke-

- Protection and Sound-Insulation function) OBlock lock OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Standard On request Please fill in



24 N

2-leaf door, with top panel

Performance overview

El₂90-C5 T 90

Main function



Fire-Protection

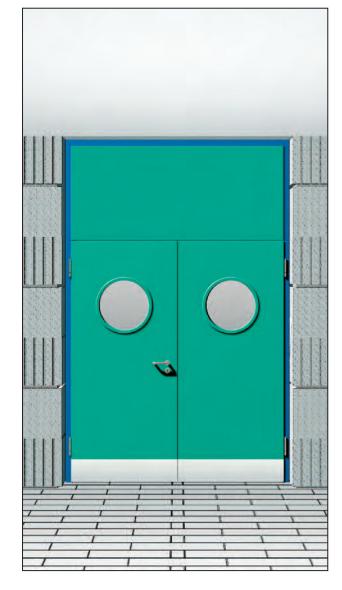
Optional function



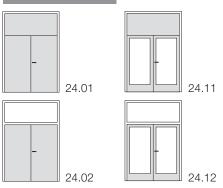
O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1125-3000 2000-4000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1061-2936 1968-3968 1718-2968
Din	Thickness of door leaf	70
	Solid door	0
ion	Door with vision panel	0
Configuration	Style door (profile beads)	0
ηfig	Climate category II	•
S	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
Ed	Unrebated with jamb rebate	0
	Solid wall	0
SIII	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing type 90 V	0
	Steel frame	0
Sé	Wooden wrap-around frame	0
Frames	Wooden block frame	0
F	Solid wooden frame	0
	4-sided frame	0



Information





Fixed side panels

Tender specifications

El₂90-C5

For additional technical information please see appendix, indicated with



 See respective door approval Applied for approval

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB

 \dots BR-width x \dots BR-height

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
O Covered steel element ≥ F 120A	(F)

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/110 mm
- Standard installationInstallation in hallway
- Installation in hallways

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Combinations

- T 90 Fire-Protection-Doors
 O T 90-1, Type 8 N
 O T 90-1, Type 80-1
 O T 90-1, Type 91 N

- OT 90-1, Type 91 N Slimline

- O T 90-2, Type 24 N O T 90-2, Type 80-2 O T 90-2, Type 92 N
- O T 90-2, Type 92 N Slimline

Segmentation examples

Door element 1-leaf door

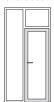
with one-sided fixed side panel



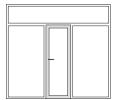
with two-sided fixed side panel



with fanlight and one-sided fixed side panel



with continuous fanlight and two-sided fixed side panel

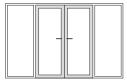


Door element 2-leaf door

with one-sided fixed side panel



with two-sided fixed side panel



with continuous fanlight, one-sided fixed side panel





Fixed side panels

Performance overview

El₂90-C5

T 90

Main function



Fire-Protection T 90

Optional function

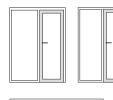


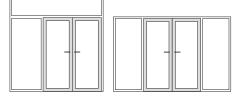
O Smoke-Protection



O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB

Examples of use





Performance profile

sions nm	1-leaf door Basic dimension BR-width Basic dimension BR-height	max. 3400 max. 3500						
Dimensions in mm	2-leaf door Basic dimension BR-width Basic dimension BR-height	max. 4500 max. 3500						
	Solid wall	0						
Walls	Gasblock concrete wall	0						
	Gypsum plasterboard wall	0						
Frame	Solid wooden frame							

set	T 90-1 Type 8 N / 80-1 (Door in wooden wrap-around frame) (Door in wooden block frame)	0
In combination with door set	T 90-1 Type 91 N T 90-1 Type 91 N Slimline (Door in solid wooden frame)	0
sombination	T 90-2 Type 24 N / 80-2 (Door in wooden wrap-around frame) (Door in wooden block frame)	0
lu	T 90-2 Type 92 N T 90-2 Type 92 N Slimline (Door in solid wooden frame)	0







Tender specifications

Information

For additional technical information please see appendix, indicated with

120-1 FORM-Fire-Protection-Door Model 120-1.00

Approval

Applied for approval

Optional function

- O Smoke-Protection
- OSound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB
- O Burglar-Protection WK 2

Dimensions

🕲 Throat opening

- O Solid wall O Gasblock concrete wall
- (M) O Covered steel structural element ≥ F 180A

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm O Wooden block frame, architrave 45/60 mm O4-sided frame

Door leaf

Thickness of door leaf about 70 mm

- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)

 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VX 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OHEWI B9107 160 VX
- OAdditional 3rd hinge
- O.

Hinge surface

- Galvanised Matt nickel-plated
- Plastic material - Brass-coloured
- Stainless steel
- Colour-coated

El₂120-C5

- PZ-lock according to DIN 18250, backset 65 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set

 Handle surface

- Aluminium
- Stainless steel
- Plastic material
- O[®].....

Overhead door closers according to DIN EN 1154

• GEZE TS 4000 / DORMA TS 73

- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000

Automatic door operators according to DIN 18263

OGEZE TSA 160 NT F OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 550 F-G Additional options for door closers OIntegrated hold-open device OFree-swing function

OIntegrated hold-open device

with smoke detector

OExternal smoke detector Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- OClimate category III
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OBlock lock
- OBolt contact
- OMagnetic contact
- OKick plate (aluminium/stainless steel)



120-1

1-leaf door

Performance overview

El₂120-C5 T 120

Main function



• Fire-Protection T 120

Optional function



O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2



Models



120-1.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	750-1314 1750-2500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	686-1250 1718-2468
Din	Thickness of door leaf	70
_	Solid door	0
Configuration	Style door (profile beads)	0
gura	Climate category II	•
onfi	Climate category III	0
Ŏ	Stress group E (4)	•

Edge	Unrebated	O
Walls	Solid wall	О
×	Gasblock concrete wall	0
3S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	4-sided frame	0



Information





Fixed glazing **Tender specifications**

For additional technical information please see appendix, indicated with



G 30 FORM-Fire-Protection-Glazing Type 25 V

Approval

• Approval No. DIBt. Z-19.14-1278

Optional function

- O Smoke-Protection O Sound-Insulation Rw,P = 32 dB

🖎 BR-width x BR-height

O Solid wall

- O Gasblock concrete wall
 O Gypsum plasterboard wall
- (M)
- O Classified wooden elements ≥ F30
- O Covered steel elements ≥ F30

Fixed glazing

Profile cross-section

- ≥ 55 x 73 mm
- One-sided glazing bead
- $\bigcirc \, \mathsf{Infill} \,$

- Laminated wire glass, 7 mm Pyrodur 30-10 klar, 7 mm Pyrodur 30-12 patterned glass 504, 8 mm
- O Pyran S, 6 mm
- Coffer - Panel version II

- O Segmentation

 without partitioning

 Horizontal partitionin Horizontal partitioning
- Vertical partitioning
- Cross partitioning ©

Surfaces

- O Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- O High pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- O Colour-coated

Special equipment

- O Supporting posts
- $\ensuremath{\mathbf{O}}$ Wall joint posts
- O Wall joint mouldings
- O Actual cross bars

25 V

Fixed glazing

Performance overview

E30

G 30

Main function



Fire-Protection G 30

Optional function



O Smoke-Protection



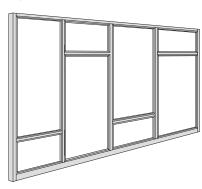
O Sound-Insulation Rw,P = 32 dB

Example of use

Fixed glazing for internal areas

Depending on the pane size (max. 1200 x 2200 mm) the arrangement of the crossbars is possible in any layout.

The single panes can be arranged upright, on request either in portrait format or landscape format.





Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	unlimited max. 3500
Dim)	Profile cross-section	≥ 55 x 73
no	Glass	•
Configuration	Panel	0
nfig	Coffer	0
ၓ	Panel version II	0

Valls	Solid wall	0
	Gasblock concrete wall	0
	Gypsum plasterboard wall	0

Information

Please note!

For additional technical information please see appendix, indicated with i







According to the official technical regulations, G-Glazings are only allowed to be installed on sites without any objections concerning fire protection (e.g. as glazing in hallway walls, if the bottom edge of the G-Glazing is at least 1,8m above the surface of the finished floor level). In terms of acceptance of usage of G-Glazings the responsible local building supervisory board decides every individual case.





Fixed glazing

Tender specifications

For additional technical information please see appendix, indicated with



F 30 FORM-Fire-Protection-Glazing Type 25 V

Approval

Approval No. DIBt. Z-19.14-180

Optional function

- O Smoke-Protection
 O Sound-Insulation Rw,P = 42 dB
 O Sound-Insulation Rw,P = 37 dB
- Sound-Insulation Rw,P = 32 dB O Burglar-Protection WK 2
- O Burglar-Protection WK 3

Dimensions

🕲 BR-width x BR-height

O Solid wall	(M
O Gasblock concrete wall	(M
OGypsum plasterboard wall	(L
O Classified wooden elements -	ESO

Fixed glazing

Profile cross-section

≥ 55 x 73/95 mm

One-sided glazing bead

Fire protection glass Pyrostop 30-10 (clear glass)

O Covered steel elements ≥ F30

- Fire protection glass
 Pyrostop 30-12 (patterned glass 504)
- Fire protection glass
- Pyrostop/Phonstop 30-17
- Fire protection glass Pyrostop / Allstop laminated glass

Allstop A3-15 Allstop B1-13

- Fire protection glass Contraflam 30-N2
- Fire protection glass
- Promat-System-Glass 30
- Panel
- Coffer
- Panel version II

○ Segmentation

- without partitioning
- Horizontal partitioning
- Vertical partitioning
- Cross partitioning

O Frameless glazing

- Glazing with silicone joint
- Transparent
- Grey
- Black

Surfaces

- O Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- O High pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- O Colour-coated

Special equipment

- O Crash-Protection-Glazing (according to TRAV)
- O Corner posts (angle 60-180°)
- Supporting posts
- O Wall joint posts
- O Wall joint mouldings
- O Patched cross bars
- O Actual cross bars O Additional wood panelling

Combinations

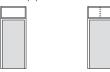
T 30 Fire-Protection-Doors with solid wooden frame combination of F 30-Glazing Type 25 V

- OT 30-1, Type 3 N OT 30-1, Type 13 N
- O T 30-1, Type 16 N
- OT 30-1, Type 5 N
- O T 30-1, Type 35 N O T 30-1, Type 10 N
- O T 30-1, Type 25 N O T 30-1, Type 25 N Slimline

- OT 30-2, Type 4 N OT 30-2, Type 4 N-PT OT 30-2, Type 14 N
- O T 30-2, Type 26 N
- O T 30-2, Type 26 N GLT O T 30-2, Type 6 N
- OT 30-2, Type 6 N GLT
- O T 30-2, Type 20 N
- O T 30-2, Type 27 N O T 30-2, Type 27 N GLT
- O T 30-2, Type 27 N Slimline

Segmentation examples

Segmentation 1 (on request with cross bars) with top panel



Segmentation 2 (on request with cross bars)



Segmentation 3 (on request with cross bars) with continuous top panel and side panel



Segmentation 4 (on request with cross bars) with top panel and continuous side panel



Segmentation 5 (on request with cross bars) with side panel on both sides





Segmentation 6 (on request with cross bars) with continuous top panel and side panel on both sides





Segmentation 7 (on request with cross bars) with top panel and continuous side panel hinge and lock edge





Segmentation 8 (on request with cross bars) Configuration according to drawing





25 V

Fixed glazing

Performance overview

El30

F 30

Fire-Protection-Glazing

Schörghuber



Main function



• Fire-Protection F 30

Optional function



O Smoke-Protection



- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB ● Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



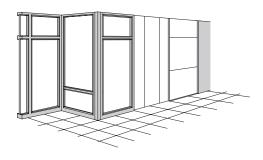
O Climate sturdiness, protection against cold/heat insulation

Fixed glazing for internal areas

Depending on the pane size (max. 1400 x 3500 mm) the arrangement of the cross bars is possible in any layout.

The single panes can be arranged upright, on request either in portrait format or landscape format.

Where required for static reasons additional bars and support poles must be installed.



Performance profile

(mm) s	Solid wall Basic dimension BR-width Basic dimension BR-height	unlimited max. 5000
Dimensions (mm)	Gypsum plasterboard wall Basic dimension BR-width Basic dimension BR-height	max. 4000 max. 4500
Ē	Profile cross-section	≥ 55 x 73/95
uc	Glass	•
ırati	Panel	0
Configuration	Coffer	0
ဝိ	Panel version II	0
	Solid wall	0
Walls	Gasblock concrete wall	0
_	Gypsum plasterboard wall	0

Information



	T 30-1	Type 3 N	0
	T 30-1	Type 13 N	0
	T 30-1	Type 16 N	0
<u>+</u>	T 30-1	Type 5 N	0
r se	T 30-1	Type 35 N	0
doo me)	T 30-1	Type 10 N	0
In combination with door set	T 30-1	Type 25 N	0
y u	T 30-1	Type 25 N Slimline	0
atic id w	T 30-2	Type 4 N/ 4 N-PT	0
n sol	T 30-2	Type 14 N	0
COU	T 30-2	Type 26 N/26 N GLT	0
<u>د</u>	T 30-2	Type 6 N/ 6 N GLT	0
	T 30-2	Type 20 N	0
	T 30-2	Type 27 N/27 N GLT	0
	T 30-2	Type 27 N Slimline	0



25 V-DK

Openable glazing

Tender specifications

El₂30-C

Information

For additional technical information please see appendix, indicated with



F 30 FORM openable Fire-Protection-Glazing Type 25V

Approval

Applied for approval

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

🕲 BR-width x BR-height

- O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall OF 30-Glazing Type 25 V
- O Classified wooden elements ≥ F30
- O Covered steel elements ≥ F30

Profile cross-section

- ≥ 55 x 73/95 mm

 One-sided glazing bead
- Infill
- Fire protection glass Pyrostop 30-10 (clear glass)
- Fire protection glass
 Pyrostop 30-12 (patterned glass 504)
- Fire protection glass
 Pyrostop/Phonstop 30-17
- Fire protection glass
- Contraflam 30-N2
- Fire protection glass Promat-System-Glass 30
- Panel
- Coffer
- Panel version II

Surfaces

- O Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- O High pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- O Colour-coated

Combinations

- T 30 Fire-Protection-Doors with solid wooden frame combination of F 30-Glazing Type 25 V O T 30-1, Type 3 N O T 30-1, Type 13 N

- O T 30-1, Type 16 N
- O T 30-1, Type 5 N O T 30-1, Type 25 N

- OT 30-2, Type 4 N OT 30-2, Type 14 N OT 30-2, Type 26 N OT 30-2, Type 26 N GLT
- OT 30-2, Type 6 N
- OT 30-2, Type 6 N GLT
- O T 30-2, Type 27 N
- O T 30-2, Type 27 N GLT

Segmentation examples

Segmentation 1 with top panel



Segmentation 2



Segmentation 3

with continuous top panel and side panel



Segmentation 4

with top panel and continuous side panel



Segmentation 5

with side panel on both sides



Segmentation 6

with continuous top panel and side panel on both sides



Segmentation 7

with top panel and continuous side panel hinge and lock edge





Fire-Protection-Glazing

25 V-DK

Openable glazing

Performance overview

El30

F 30

Main function



Fire-Protection F 30

Optional function

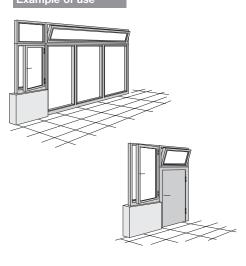


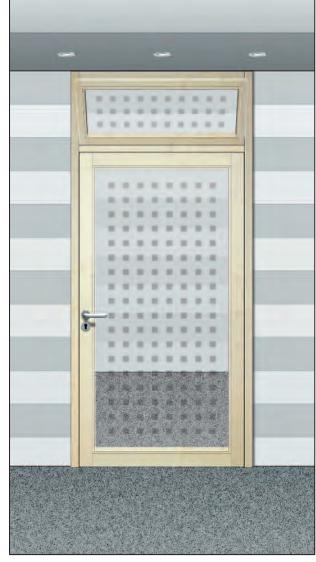
O Smoke-Protection



O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

Example of use





Performance profile

Dimensions (mm)	Basic dimension	BR	1125 x 1500
		BR	2500 x 1000
Ω	Profile cross-section		≥ 55 x 73/95
Configura- tion	Glass		•
	Solid wall		0
Walls	Gasblock concrete wall		0
Wa	Gypsum plasterboard wall		О
	Glazing Type 25 V		0

	T 30-1	Type 3 N	0
	T 30-1	Type 13 N	0
	T 30-1	Type 16 N	0
set	T 30-1	Type 5 N	0
In combination with door set	T 30-1	Type 25 N	0
mbination with doc	T 30-2	Type 4 N	О
on v	T 30-2	Type 14 N	О
inati	T 30-2	Type 26 N	О
omb (in s	T 30-2	Type 26 N GLT	О
미	T 30-2	Type 6 N	О
	T 30-2	Type 6 N GLT	0
	T 30-2	Type 27 N	О
	T 30-2	Type 27 N GLT	0





Standard	On request



25 V-A

Fixed glazing for exterior use

Tender specifications

Information

For additional technical information please see appendix, indicated with

F 30 FORM-Fire-Protection-Glazing Type 25 V

Approval

- Applied for approval
- CE marking

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB
- OBurglar-Protection WK 2
- OBurglar-Protection WK 3
- O Climate category: 4
- OStress group: 3 OWind load class 5B
- O Driving rain resistance class 9A
- OU_W-value: ≥ 1,3
- OAir permeability class 4

Dimensions

🕲 BR-width x BR-height

O Solid wall

- (M)
- OGasblock concrete wall OClassified wooden elements ≥ F30
- O Covered steel elements ≥ F30

Fixed glazing

Profile cross-section

- ≥ 60 x 95 mm One-sided glazing bead

O Infill

- Fire protection glass Pyrostop 30-10 (clear glass)
- Fire protection glass
- Pyrostop 30-12 (patterned glass 504)
- Fire protection glass
 Pyrostop/Phonstop 30-17
- Fire protection glass
- Pyrostop / Allstop laminated glass
- Allstop A3-15
- Allstop B1-13
- Fire protection glass Contraflam 30-N2
- Fire protection glass Promat-System-Glass 30

○ Segmentation

- without partitioning
- Horizontal partitioning
- Vertical partitioning
- Cross partitioning

Door leaf / Wooden frame

- **O**Untreated
- On site coating/undercoating foil
- O Colour-coated

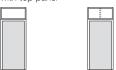
Special equipment

- O Crash-Protection-Glazing (according to TRAV)
- O Corner posts (angle 60-180°)
- O Supporting posts
- O Wall joint posts
- O Wall joint mouldings
- O Patched cross bars
- O Actual cross bars
- O Additional wood panelling

O F 30-1, Type 25 V-DA

Segmentation examples

Segmentation 1 (on request with cross bars) with top panel



Segmentation 2 (on request with cross bars) with side panel



Segmentation 3 (on request with cross bars) with continuous

top panel and side panel



Segmentation 4 (on request with cross bars) with top panel

and continuous side panel



Segmentation 5 (on request with cross bars) with side panel on both sides





Segmentation 6 (on request with cross bars) with continuous top panel and side panel on both sides





Segmentation 7 (on request with cross bars) with top panel and continuous side panel hinge and lock edge





Segmentation 8 (on request with cross bars) Configuration according to drawing



Standard On request

Please fill in

142



25 V-A

Fixed glazing for exterior use

Performance overview

El30



Fire-Protection-Glazing

Schörghuber



Main function



Fire-Protection F 30

Optional function



O Smoke-Protection



- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB



- O Burglar-Protection WK 2
- O Burglar-Protection WK 3 O Climate category 4



- O Stress group 3
- O Wind load class 5B
- O Driving rain resistance class 9A O U_W-value ≥ 1,3
- O Air permeability class 4

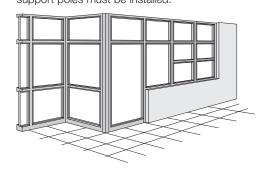
Example of use

For fixed glazings for external areas

Depending on the pane size (max. 1400 x 3500 mm) the arrangement of the cross bars is possible in any lavout.

The single panes can be arranged upright, on request either in portrait format or landscape format.

Where required for static reasons additional bars and support poles must be installed.



Performance profile

Dimensions (mm)	Solid wall Basic dimension BR-width Basic dimension BR-height	unlimited max. 3000
	Profile cross-section	≥ 65 x 95
Configura- tion	Glass	•
	Solid wall	0
Walls	Gasblock concrete wall	0
_	Glazing Type 25 V-A	0



In combination with Fire-Protection-Window (in solid wooden frame)		
F 30-1	Type 25 V-DA	0



25 V-DA

1-leaf

Tender specifications

El230-C5

Information

For additional technical information please see appendix, indicated with

F 30 FORM-Fire-Protection-Window Model 25.10 / 25.10 KL

- Applied for approval
- CE marking

Optional function

- O Smoke-Protection
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB
- OClimate category: 4
- OStress group: 3
- OWind load class 5B
- O Driving rain resistance class 9A
- OU_W-value: ≥ 1,3
- OAir permeability class 4

Dimensions

BR-width x BR-height Throat opening

- O Solid wall OGasblock concrete wall (M) OF 30-Glazing Type 25 V (F) O Classified wooden elements ≥ F30
- O Covered steel elements ≥ F30

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)
O Solid wooden frame, 70/73 mm

- respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installationFixed side panel
- 4-sided frame

Thickness of frame 95 mm, double rebate

- Solid door, climate category IV
- Fire-Protection glass

- Type of glass

 Pyrostop 30-25 (clear glass)

 O Pyrostop 30-27

Configuration

- Minimum frame widths side/top/bottom \geq 100/100/100 mm,
- optionally with bead 40 mm ①Decorative beads on glass

Glazing beads Glass rebate with glazing bead on one side

OSolid wood

Surfaces

Door leaf / Wooden frame

- OUntreated
- O On site coating/undercoating foil
- O Colour-coated
- O.

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Double rebated

- VSX 7939/160
- OFORM-VX7939/160
- Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX
- OAdditional 3rd hinge
- Hinge surface

- Galvanised Matt nickel-plated
- Plastic material - Brass-coloured
- Stainless steel
- Colour-coated

- Lock for narrow style doors
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment OTriple bolting

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- 9 mm spindle
- FS-handles, plastic material with oval rosette, RAL 9005 black
- OFS-handles according to DIN 18273
- with short backplate
- with rosette
- with long backplate
 OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- О፟

Door closer

Overhead door closers according to DIN EN 1154

- GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000 ODORMA ITS 96 / GEZE Boxer

Automatic door operators according to DIN 18263

- OGEZE TSA 160 NT F
- OGEZE Slimdrive EMD F
- ODORMA ED 100 / 200 / 250

Additional options for door closers OIntegrated hold-open device

- OFree-swing function
- OIntegrated hold-open device with smoke detector
- External smoke detector

Door closer surface - Silver-coloured

- Stainless steel
- Colour-coated

Special equipment

- OElectrical strike
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel
- OConcealed cable transition OSecurity bolts



Fire-Protection-Glazing

25 V-DA

Openable glazing for exterior use

El₂30-C5 F 30

Performance overview



Main function



Fire-Protection F 30

Optional function



O Smoke-Protection

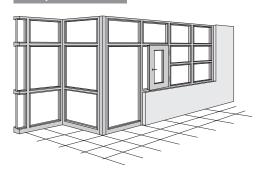


- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



- O Climate category 4
- O Stress group 3 O Wind load class 5B
- O Driving rain resistance class 9A
- O U_W-value ≥ 1,3
- O Air permeability class 4

Example of use



Performance profile

Dimensions (mm)	Basic dimension BR	1125 x 2125				
Ω	Profile cross-section	≥ 65 x 95				
Configura- tion	Glass	•				
	Solid wall	О				
Walls	Gasblock concrete wall	0				
_	Glazing Type 25 V-A	0				

In com	bination with fixed glazings	S
F 30-1	Type 25 V-A	0









Fixed glazing

Tender specifications

Information

For additional technical information please see appendix, indicated with

F 90 FORM-Fire-Protection-glazing Type 90 V

• Approval-No. DIBT Z-19.14-1521

Optional function

- O Smoke-Protection
- Sound-Insulation Rw,P = 42 dB

Dimensions

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
O Covered steel elements - FOO	

Fixed glazing

Profile cross-section

- ≥ 40 x 110 mm
- One-sided glazing bead

O Infill

- Fire protection glass Pyrostop 90-102 (clear glass)
- Fire protection glass
- Contraflam 90-N2 Fire protection glass
- Promat-System-Glass 90
- Panel
- Coffer

○ Segmentation

- without partitioning
- Horizontal partitioning
- Vertical partitioning
- Cross partitioning

O Frameless glazing

Glazing with silicone joint

- Transparent
- Grey
- Black

Surfaces

- O Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- O High pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil Colour-coated

Special equipment

- O Crash-Protection-Glazing (according to TRAV)
- O Corner posts
- O Wall joint mouldings
- O Patched cross bars
- O Actual cross bars

Combinations

T 90 Fire-Protection-Doors with wooden block frame combination of F 90-Glazing 90 V

- O T 90-1, Type 8 N O T 90-1, Type 80-1 O T 90-2, Type 24 N

- O T 90-2, Type 80-2

T 90 Fire-Protection-Doors with solid wooden frame combination of F 90-Glazing 90 V

- OT 90-1, Type 91 N
 OT 90-1, Type 91 N Slimline
 OT 90-2, Type 92 N
 OT 90-2, Type 92 N Slimline

Segmentation examples

Segmentation 1 (on request with cross bars) with top panel

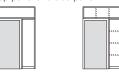


Segmentation 2 (on request with cross bars)



Segmentation 3 (on request with cross bars) with continuous

top panel and side panel



Segmentation 4 (on request with cross bars) with top panel and continuous side panel





Segmentation 5 (on request with cross bars) with side panel on both sides





Segmentation 6 (on request with cross bars) with continuous top panel and side panel on both sides





Segmentation 7 (on request with cross bars) with top panel and continuous side panel on both sides





Segmentation 8 (on request with cross bars) configuration according to draft





Fire-Protection-Glazing

90 V

Fixed glazing

Performance overview

E190

F 90

Main function



Fire-Protection F 90

Optional function



O Smoke-Protection

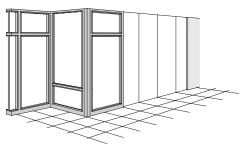


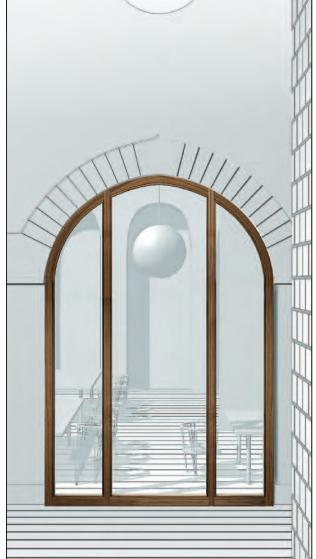
Sound-Insulation Rw,P = 42 dB

Example of use

Fixed glazing for internal areas Depending on the pane size (max. 1400 x 3500 mm) the arrangement of the cross bars is possible in any layout.

The single panes can be arranged upright, on request either in portrait format or landscape format.





Performance profile

s (mm)	Solid wall Basic dimension BR-width Basic dimension BR-height	unlimited max. 5000				
Dimensions (mm)	Gypsum plasterboard wall Basic dimension LD-width Basic dimension LD-height	max. 4000 max. 4500				
Ξ	Profile cross-section	≥ 40 x 110				
Configura- tion	Glass	•				
Confi	Panel / Coffer	0				
	Solid wall	О				
Walls	Gasblock concrete wall	0				
	Gypsum plasterboard wall	О				

set	T 90-1 Type 8 N / 80-1 (Door in wooden block frame)	О
In combination with door set	T 90-1 Type 91 N T 90-1 Type 91 N Slimine (Door in solid wooden frame)	0
nbinatior	T 90-2 Type 24 N / 80-2 Door in wooden block frame)	0
ln con	T 90-2 Type 92 N T 90-2 Type 92 N Slimline (Door in solid wooden frame)	0



Information



 Standard 	O On request
------------------------------	--------------





Smoke-Protection-Doors Smoke-Protection-Glazing

Content

Configurati	ion	Туре	Page
	1-leaf door	1 N 3 N 13 N 16 N 5 N 50-1 35 N 10 N 17 N 25 N 25 N 3 N	154 156 158 160 162 164 166 168 170 172 Slimline 174
RS	1-leaf door, with top panel	3 N 13 N 16 N 5 N 35 N 10 N 17 N 25 N	178 180 182 184 186 188 190
	2-leaf door	4 N 14 N 26 N 26 N GLT 6 N 6 N GLT 50-2 20 N 27 N 27 N 27 N GLT	194 196 198 200 202 204 208 210 Slimline 212
	2-leaf door, with top panel	4 N 26 N 26 N GLT 6 N 6 N GLT 20 N 27 N 27 N GLT	216 218 220 222 224 226 228
RS	Fixed glazing Openable glazing	25 V 25 V-DK	232 234





Smoke-Protection Regulations and requirements

Official technical approval

In Germany Smoke-Protection-Doors require an official technical approval as applicability verification. The basis for an official technical approval are imperviousness to smoke testing according to DIN 18095-2 and continuous-operational testing according to DIN 4102-18 at certified facilities. Smoke-Protection-Doors form a unit of frame, door leaf and the fittings necessary for their functioning.

The manufacturer has to confirm with a declaration of conformity that the production of the Smoke-Protection-Doors is monitored in terms of complying with the regulations of the official technical approval.

With the attachment of a marking label on the Smoke-Protetion-Door and the unrequested presentation of the official technical approval the fulfillment of these requirements has to be demonstrated at the time of delivery.

CE label

With the introduction of product standards for Smoke-Protection-Doors (EN 16034, publication expected at the end of 2011), the applicability verification is possible through the marking with the EU wide recognised "CE" conformity label. This marking will be made compulsory after a not yet defined transition period. Basis for the granting of the CE conformity certification, which allows the respective labeling, are imperviousness to smoke testing according to DIN EN 14600 respectively DIN EN 1634-3 and testing according to DIN EN 1191 concerning the durability of the self-closing function at certified facilities. Smoke-Protection-Doors form a unit of frame, door leaf and the fittings necessary for their functioning.

The manufacturer has to confirm with a CE conformity certificate that the production of the smoke protection closure is monitored by an external, independent and accredited certification authority in terms of complying with the regulations of the product norm.

With the attachment of the "CE" conformity label and the unrequested presentation of the CE conformity certification the fulfillment of these requirements has to be demonstrated at the time of delivery.

The classification is according to DIN EN 13501-2 with the following description:

 $S_{a/m}$ imperviousness to smoke (with index a or m)

C durability of the self-closing function (C0 – C5)

In Germany smoke protection closures with the classification S_m -C5 are used.





Configuration options

RS Solid door

1-leaf door

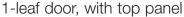
















2-leaf door







2-leaf door, with top panel





2-leaf door, reversed



2-leaf door, reversed, with top panel





1-leaf door





1-leaf door, with top panel





2-leaf door





2-leaf door, with top panel





2-leaf door, reversed



2-leaf door, reversed, with top panel







Smoke-Protection-Glazing

Configuration options

RS Solid wood framed door

1-leaf door

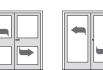


2-leaf door



2-leaf door, reversed





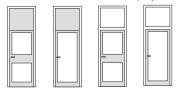
RS Sliding door

1-leaf door

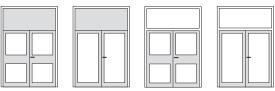




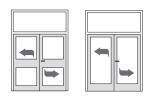
1-leaf door, with top panel



2-leaf door, with top panel



2-leaf door, reversed, with top panel



1-leaf door, with vision panel





RS Fixed side panels

In combination with RS-1 Smoke-Protection-Door







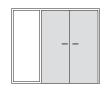


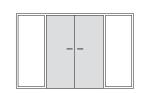


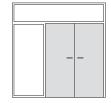
RS Fixed side panels

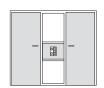
In combination with RS-2 Smoke-Protection-Door









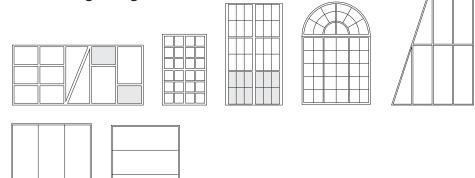




Smoke-Protection-Glazing

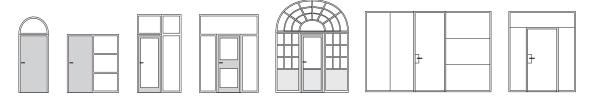
Configuration options

RS Fixed glazing



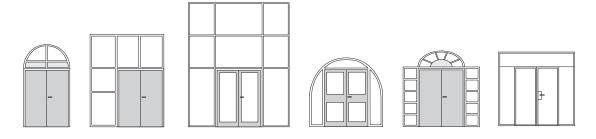
RS Fixed glazing

In combination with RS-1 Smoke-Protection-Door

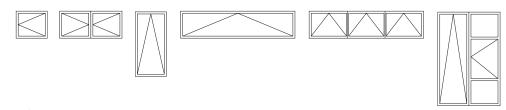


RS Fixed glazing

In combination with RS-2 Smoke-Protection-Door

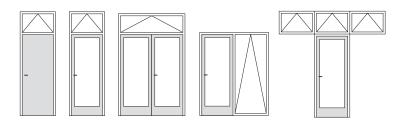


RS Openable glazing



RS Openable glazing

In combination with RS-1 or RS-2 Smoke-Protection-Door







Tender specifications

 $S_m - C5$

Information

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 1.00 / 1.10

Zulassung

Approval No. 3684/3820-1

Optional function

- Sound-Insulation Rw,P = 32 dB O Sound-Insulation Rw,P = 37 dB
- O Burglar-Protection WK 2

Dimensions

					Е	3F	ξ-	W	ίc	dt	h	Х					. BR-height
																	Throat opening

- Walls O Solid wall (M)O Gasblock concrete wall (M) OGypsum plasterboard wall
- OWooden elements ≥ F 30B O Steel elements ≥ F 30A

Steel frames

Standard rebate, galvanised and undercoated, sheet thickness 1.5 mm. 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall: - Backbend 9 mm Gypsum plasterboard wall: - Backbend 15 mm

- Floor recess 30 mm
- without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- O SEZ-Wooden frame, architrave 35/35 mm
- OSEZ-Wooden frame, architrave 50/50 mm

Door leaf

Door leaf thickness about 42 mm

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

● ESG 8 mm (clear glass)
Configuration

- **O**Standard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350 mm
- Glazing beads
 OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized

Surfaces

Door leaf

- OVeneer
- Transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm

On site coating/undercoating foil

Hinges

Steel frames

2-part hinges, 2 pieces, 100 mm, hinge base 2D adjustable

Rebated Unrebated ● V8037 WF ● V8087 WF OVN8938/100 O VN8948/100

Three-roll-hinges, 2 pieces, 160 mm, on request hinge

base 3D adjustablele

Rebated Unrebated

- VN8938/160 VN8948/160 OVS8939/160 O VS8949/160 OVSX7939/16 0 O VSX7729/160
- Ovx7939/160 O VX7729/160 OBSW060-21 VX O BSW060-22 VX OHEWI B8107.160 VX O HEWI B9107,160 VX
- Additional 3rd hinge O Additional 3rd hinge

Wooden frames

Standard-Wooden frame SEZ-Wooden frame

2-part hinges, 2 pieces, 100 mm, hinge base V3604

Rebated Unrebated V4437 WF V4487 WF

Standard-Wooden frame

Three-roll-hinges, 2 pieces, 160 mm, on request hinge

base 3D adjustablele (VHX) Rebated Unrebated ● VSX7939/160

- Ovx7939/160 Ovx7939/120 Ovx7939/100
- VSX 7729/160 O VX7729/160 O VX7729/120
- OBSW060-21 VX O BSW060-22 VX OHEWI B8107.160 VX O HEWI B9107,160 VX

Hinge surface

- Galvanised
- Matt nickel-plated
- Stainless steel
- Plastic material

Locks

- PZ-lock according to DIN 18250, backset 65 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever

OTriple bolting Forend surface

- Galvanised
- Stainless steel

Handles

9 mm spindle

- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette

OKnob-lever-set, fixed knob on one side

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer according to DIN EN 1154

TS FORM

OGEZE TS 4000 / DORMA TS 73

ODORMA TS 83 ODORMA TS 93

OGEZE TS 3000 OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer

Additional options for door closers OIntegrated hold-open device

OIntegrated hold-open device with smoke detector

OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel RAL-farbia
- Special equipment

Retractable bottom seal

- OClimate category III
- ODoor viewer



1 N

1-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



- Sound-Insulation Rw,P = 32 dB
- O Sound-Insulation Rw,P = 37 dB



O Burglar-Protection WK 2

Models



1.00



Performance profile

s (mm)		BR-width BR-height	625-1314 2000-2250			
Dimensions (mm)	Clear passage I	561-1250 1968-2218				
۵	Door leaf thickness	42				
L	Solid door	0				
Configuration	Door with vision pa	0				
gur	Climate category II		•			
onfi	Climate category III	I	0			
O	Stress group E (4)	•				

Edge	Rebated	0
Ed	Unrebated	О
ω.	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
Sé	Steel frame	0
Frames	Wooden wrap-around frame	0
F	SEZ-Wooden frame	0



Information



Tender specifications

 S_m-C5

Information

For additional technical information please see appendix, indicated with

RS-1 FORM-Smoke-Protection-Door/-Flap Model 3.00 / 3.10 / 3.00 KL / 3.10 KL

Approval

Approval No. 3436/3741-1

Optional function

- Sound-Insulation Rw,P = 32 dB
- OBurglar-Protection WK 2
- OBurglar-Protection WK 3 (M 3)
- OWet Room Door NT
- O Radiation-Protection
- O Bullet-Resistant M 3

Dimensions

(D)					Е	31-	۲ -	W	/ic	tt	h	X					BR-height
																	Throat opening

Walls

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
O Solid gypsum wall	(V)
O Glazing Type 25 V	(F)
OWooden elements ≥ F 30B	

Steel frames

OSteel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall: - Backbend 9 mm

Gypsum plasterboard wall:

- Backbend 15 mm
- without floor recess Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame

 Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Face screw fastening
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame

- O Fineline frame
 O Sports hall frame
- O Required face width /. . . . mm O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Steel frame with slide anchor fastening
- (solid gypsum wall)

 O Sheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of of 2 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm

156

- Standard installation
- Installation in hallways
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- OFixed side panel O4-sided frame

Aluminium frames

Anodized or colour powder-coated, 3-sided special gasket black OWrap-around frame

- OBlock frame with quirk
- O Round-shaped frame

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling,
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge OColour-coated edge
- Vision panel

Type of glass

- ESG 8 mm (clear glass)VSG 8 mm (clear glass)
- ODSG 7 mm
- OPyrodur 30-10, 7 mm

Configuration

- **O**Standard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable

Rebated

- VS 8939
- **O**VN 8938
- OVSX 7939/160, 3-d.

OHFWI B8108.160

OAdditional 3rd hinge

- Ovx 7939/160, 3-d. OBSW 060-21 vx, 3-d.

OHEWI B8107.160 VX, 3-d.

- OVIELER ER.TB.160.337.F, 3-d. OHEWI B8108.160
- Unrebated
- VS 8949 O VN 8948
- O VSX 7729/160, 3-d.
- O VX 7729/160, 3-d. O VX 7728-160-FORM
- O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges
- O HEWI B9108.160 O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated Unrebated

- VSX 7939/160 Ovx 7939/160 OBSW 060-21 VX
- VSX 7729/160 O VX 7729/160 O VX 7728-160-FORM

- OVELER ER.TB.160.337.F
- OHEWI B8107.160 VX O Spring hinge FHX 7939 O Additional 3rd hinge
- O BSW 060-22 VX O VIELER ER.TB.160.332.S
 - O Concealed hinges
 O HEWI B9107.160 VX
 - O Spring hinge FHX 7729
 - O Additional 3rd hinge

Hinge surface

- Galvanised Matt nickel-plated
- Plastic material
- Brass-colouredColour-coated Stainless steel

- PZ-lock according to DIN 18250, backset 65 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks OLock with special security equipment OTriple bolting OCode card lock system
- Forend surface
- Galvanised
- Stainless steel Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
 OFS-Handles according to DIN 18273
- with short backplate
- with rosette with rectangular backplate
- with long backplate OKnob-lever-set, fixed knob on one side
- OPanic pushbar OSecurity handle-set

OCode card handle-set

- Handle surface
- Aluminium
- Stainless steel Plastic material

Door closer Overhead door closer

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73 ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000
 ODORMA ITS 96 / GEZE Boxer
 Automatic door operator
 according to DIN 18263
 OGEZE TSA 160 NT F

OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250 Floor-mounted door closer

- according to DIN EN 1154 OGEZE BTS 550 F
- OGEZE BTS 550 F-G
- ODORMA BTS 80 F Additional options for door closers
- OIntegrated hold-open device OFree-swing function
 OIntegrated hold-open device with smoke detector
- OExternal smoke detector Door closer surface

Silver-colouredBronze-colouredColour-coated

- Special equipment
- Retractable bottom seal
- OClimate category III
 OLead inlay for Radiation-Protection up to 4 mm
 OElectrical strike
- ODoor viewer
- OSill seal with aluminium threshold OBlock lock
- OBolt contact OMagnetic contact

OSecurity bolts

Standard

- OCable channel
 OConcealed cable transition
- OKick plate (aluminium/stainless steel)
 - On request Please fill in



1-leaf door

Performance overview

 S_m-C5

Main function



Smoke-Protection

Optional function



Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3 (M 3)



O Wet Room (NT)



O Radiation-Protection



O Bullet-Resistant M 3

Models



3.00



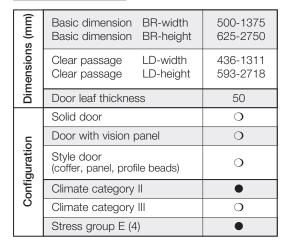


Flap 3.00 KL



Flap 3.10 KL

Performance profile



(1)	Rebated	0
Edge	Unrebated	0
	Unrebated with jamb rebate	0
	Solid wall	0
ω	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
မြန္	Wooden wrap-around frame	0
Frames	Wooden block frame	0
<u>r</u>	Solid wooden frame	0
	Aluminium frame	0











Tender specifications

Information

For additional technical information please see appendix, indicated with

RS-1 FORM-Smoke-Protection-Door/-Flap Model 13.00 / 13.10

Approval

Approval No. 3436/3741-1

Optional function

- O Sound-Insulation Rw,P = 42 dB
- Sound-Insulation Rw,P = 37 dB
- O Burglar-Protection WK 2
- O Radiation-Protection

Dimensions

ᅠ	BR-width x	BR-height
ᅠ		Throat opening

Walls
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wa
O Glazing Type 25 V

OWooden elements ≥ F 30B OSteel elements ≥ F 30A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall: - Backbend 9 mm Gypsum plasterboard wall:

- Backbend 15 mm without floor recess
- Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame.
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm OSteel block frame
- Standard installation
 Installation Installation in hallways
- O Round-shaped frame
- O Face expansion / mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Face screw fastening
- Adapter fastening
 Trapezoid anchor fastening
- O Projecting frame
- O Fineline frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 2 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

OWooden block frame, architrave 45/60 mm

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- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Aluminium frames

Anodized or colour powder-coated,

- 3-sided special gasket black OWrap-around frame
- OBlock frame with quirk O Round-shaped frame

Door leaf thickness about 50 mm

- Door leaf Rebated (F)
- Unrebated (S)
- Unrebated with jamb rebate (S)
- Solid door, climate category Il
- Stress group E (4)
 Oboor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Optiphon 11/10 N (clear glass)
 OAllstop A3-15
- Configuration
 OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door OSpecial vision panel size mm
- ODecorative beads on glass
- Glazing beads
- OSolid wood veneered OSolid wood
- OAluminium untreated/anodized OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames**

Three-roll-hinges, 2 pieces, 160 mm, on request

hinge base 3D adjustable

Rebated

- VS 8939
- OVN 8938
- Ovsx 7939/160, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OHEWI B8108.160
- OVIELER ER.TB.160.337.F. 3-d. OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge
- Unrebated VS 8949 O VN 8948
- O VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O VX 7728-160-FORM O BSW 060-22 VX. 3-d.
- O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges
- O HEWI B9108,160 O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

○◎.....

Wooden frames**

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated ● VSX 7939/160 Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F

OHEWI B8107.160 VX

OAdditional 3rd hinge

- O VX 7729/160
- Unrebated ● VSX 7729/160
 - O VX 7728-160-FORM O BSW 060-22 VX O VIELER ER.TB.160.332.S

for door configuration Rw,P = 42 dB

- only available in solid door configuration
- **equipped with FD-hinges

O®......®C O HEWI B9107.160 VX O Additional 3rd hinge

Hinge surface

- Galvanised - Plastic material Matt nickel-plated - Brass-coloured
 - Stainless steel - Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
 OLock with special security equipment
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273 with short backplate
- with rosette with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side OPanic pushbar
- OSecurity handle-set

OCode card handle-set Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer

- according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93 OGEZE TS 5500 ODORMA ITS 96 / GEZE Boxer

Automatic door operator according to DIN 18263

- OGEZE TSA 160 NT F
- OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250 Floor-mounted door closer
- according to DIN EN 1154 OGEZE BTS 550 F
- OGEZE BTS 550 F-G
- ODORMA BTS 80 F
- Additional options for door closers
- OIntegrated hold-open device OFree-swing function OIntegrated hold-open device with smoke detector

OLead inlay for Radiation-Protection up to 4 mm

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated
- Special equipment
- Retractable bottom seal OClimate category III
- OElectrical strike
- ODoor viewer OBlock lock OBolt contact
- OMagnetic contact
 OCable channel
- OConcealed cable transition

Standard

- OSecurity bolts OKick plate (aluminium/stainless steel)
- О७
 - O On request
- Please fill in



13 N

1-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



O Sound-Insulation Rw,P = 42 dB ■ Sound-Insulation Rw,P = 37 dB



O Burglar-Protection WK 2



O Radiation-Protection

Models



13.00





Flap 13.00 KL



Flap 13.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1375 625-2750			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1311 513-2718			
Din	Door leaf thickness	50			
	Solid door*	0			
ion	Door with vision panel	0			
Configuration	Style door (profile beads)	0			
ηfig	Climate category II	•			
S	Climate category III	0			
	Stress group E (4)	•			

₀	Rebated	0
Edge	Unrebated	0
"	Unrebated with jamb rebate	0
	Solid wall	0
ω l	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
န	Wooden wrap-around frame	0
Frames	Wooden block frame	0
뇬	Solid wooden frame	0
	Aluminium frame	0



Information







Tender specifications

 S_m -C5

Information

For additional technical information please see appendix, indicated with

RS-1 FORM-Smoke-Protection-Door/-Flap Model 16.00 / 16.10 / 16.00 KL / 16.10 KL

Approval No. 3421/3353-1

Optional function

- Sound-Insulation Rw,P = 32 dB
- OBurglar-Protection WK 2
- OBurglar-Protection WK 3
- O Radiation-Protection

Dimensions

BR-width xBR-height Throat opening

O Solid wall OGasblock concrete wall (M)OGypsum plasterboard wall (L) (F) OGlazing Type 25 V

O Wooden elements ≥ F 30B O Steel elements ≥ F 30A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm
- Backbend 15 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Sports hall frame
- OSteel block frame
- Standard installation Installation in hallways
- O Round-shaped frame
- O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame O Fineline frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 2 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

160

- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Aluminium frames

Anodized or colour powder-coated, 3-sided special gasket black

- OWrap-around frame
- OBlock frame with quirk

O Round-shaped frame

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)Solid door, climate category II
- O Solid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door

 with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel
- OSports hall door

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
 OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OVSG 8 mm (clear glass)
- ODSG 8 mm
- OPyrodur 30-10, 7 mm OAllstop B1-13 OAllstop A3-15

Configuration OStandard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass
- Glazing beads
- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Rebated / Double-rebated Unrebated
- VSX 7939/160, 3-d. OVX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge
- Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)
- VSX 7939/160 Ovx 7939/160 OBSW 060-21 VX
- Rebated / Double-rebated Unrebated ● VSX 7729/160 O VX 7729/160

• VSX 7729/160, 3-d.

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

O Additional 3rd hinge

OVIELER ER.TB.160.332.S, 3-d.

O Concealed hinges
O HEWI B9107.160 VX, 3-d.

0 №

O BSW 060-22 VX OVIELER ER.TB.160.337.F O VIELER ER.TB.160.332.S

- OHEWI B8107.160 VX OAdditional 3rd hinge
- O Concealed hinges O HEWI B9107.160 VX
- O Additional 3rd hinge

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

Locks

- PZ-lock according to DIN 18250, backset 65 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
 OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
 OKnob-lever-set, fixed knob on one side
- OFlush handle
- OPanic pushbar OSecurity handle-set

OCode card handle-set

- Handle surface Aluminium
- Stainless steel
- Plastic material

Door closer Overhead door closer

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73

- ODORMA TS 83 ODORMA TS 93 OGEZE TS 3000
- OGEZE TS 5000 ODORMA ITS 96 / GEZE Boxer
- Automatic door operator
- according to DIN 18263 OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250
- Floor-mounted door closer according to DIN EN 1154

OGEZE BTS 550 F OGEZE BTS 550 F-G

- ODORMA BTS 80 F Additional options for door closers
- OIntegrated hold-open device
- OFree-swing function OIntegrated hold-open device with smoke detector OExternal smoke detector
- Door closer surface Silver-coloured
- Stainless steel Colour-coated
- Special equipment Retractable bottom seal
- OLead inlay for Radiation-Protection up to 4 mm OElectrical strike
- ODoor viewer OSill seal with aluminium threshold OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)
 - O On request Please fill in
- Standard



Schörghuber

16 N

1-leaf door

Performance overview

 S_m-C5

Main function



Smoke-Protection

Optional function



Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



O Radiation-Protection

Models



16.00





Flap 16.00 KL



Flap 16.10 KL

Performance profile

(mm) s	Basic dimension BR-width Basic dimension BR-height	625-1500 1750-3500			
Oimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1436 1718-3468			
Dim	Door leaf thickness	70			
	Solid door	0			
<u>_</u>	Door with vision panel	0			
Configuration	Style door (coffer, panel, profile beads)	0			
onfi	Climate category II	•			
Ŏ	Climate category III	0			
	Stress group E (4)	•			

Super size: On request with a door leaf width of up to 2000 mm!







a)	Rebated	О
Edge	Unrebated with jamb rebate	0
ш	Double-rebated	0
	Solid wall	0
<u>န</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
	Sports hall frame	0
Frames	Wooden wrap-around frame	0
Frar	Wooden block frame	0
_	Solid wooden frame	0
	Aluminium frame	0





Tender specifications

 S_m-C5

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For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door/-Flap Model 5.00 / 5.10 / 5.00 KL / 5.10 KL

Approval

Approval No. 3613/3350-1

Optional function

- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Burglar-Protection WK 2
- O Burglar-Protection WK 3
 O Radiation-Protection

Dimensions

(В	R	-۷	vi	dt	th	Х					. BR-height
1																Throat opening

Walls
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
OGlazing Type 25 V
OWooden elements > F 30B

OSteel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Floor recess 30 mm Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation Installation in hallways
- O Round-shaped frame
- O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
 O Frame for installation in existing walls
 Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
- O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 2 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm, respectively 70/95 mm
- Standard installation Installation in hallways Installation in front of wall opening
- Projecting installation O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Aluminium frames

Anodized or colour powder-coated, 3-sided special gasket black

162

- OWrap-around frame
- O Block frame with quirk
- O Round-shaped frame

Door leaf

Door leaf thickness about 70 mm

- Rebated (F) Unrebated with jamb rebate (S) Double-rebated (D)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O....

Vision panel

- Type of glass

 Phonstop 31/45 GH (clear glass)
- OPhonstop 31/45 GH (patterned glass 504)
- OAllstop B1-13 GH OAllstop A3-15 GH

Configuration

- OStandard
 OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500, 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass

- Glazing beads
 OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated / Double-rebated Unrebated for Rw,P = 42 dB • vsx 7729/1

- Ovx 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB
- VSX 7939/160, 3-d.
- OVX 7939/160, 3-d.
- OBSW 060-21 VX. 3-d
- OVIELER ER.TB. 160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated / Double-rebated Unrebated for Rw,P = 42 dB
 vsx 7729/1
- VX 7939/160 FD OBSW 060-21 VX FD for Rw,P = 37 dB

● VSX 7939/160

OBSW 060-21 VX

Ovx 7939/160

- O VX 7729/160 O BSW 060-22 VX
 O VIELER ER.TB.160.332.S
- O Concealed hinges O HEWI B9107.160 VX O Additional 3rd hinge

● VSX 7729/160

● VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge

O HEWI B9107.160 VX, 3-d

O BSW 060-22 VX, 3-d.
O VIELER ER.TB.160.332.S, 3-d.

Standard

OVIELER ER.TB.160.335.F OHEWI B8107,160 VX

OAdditional 3rd hinge

- Hinge surface Galvanised
- Plastic material Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm,
- OPanic lock, fixed knob on one side

- OPanic lock, lever-lever
 OSelf-bolting panic locks
 OLock with special security equipment
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped. with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate with long backplate
- OKnob-lever-set, fixed knob on one side OFlush handle
- OPanic pushbar
- OSecurity handle-set OCode card handle-set
- Handle surface

 Aluminium
- Stainless steel Plastic material

Door closer

Overhead door closer

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73
 DORMA TS 83
 ODORMA TS 93
 GEZE TS 3000
- OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer

- Automatic door operator
- according to DIN 18263
- OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250
- Floor-mounted door closer according to DIN EN 1154
- OGEZE BTS 550 F
- OGEZE BTS 550 F-G ODORMA BTS 80 F
- Additional options for door closers OIntegrated hold-open device
- OFree-swing function OIntegrated hold-open device with smoke detector
- OExternal smoke detector
 - Door closer surface Silver-coloured
 - Stainless steel
 - Colour-coated
- Special equipment Retractable bottom seal OClimate category III
- OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact OMagnetic contact

OSecurity bolts

- OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)
 - Please fill in

 - O On request



5 N

1-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



- O Sound-Insulation Rw,P = 45 dB
- ullet Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



O Radiation-Protection



Models



5.00



-Flap 5.00 KL



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 1750-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1436 1718-2968
Din	Door leaf thickness	70
	Solid door	0
ion	Door with vision panel	0
urat	Style door (profile beads)	0
Configuration	Climate category II	•
S	Climate category III	0
	Stress group E (4)	•

	Rebated	0
Edge	Unrebated with jamb rebate	0
"	Double-rebated	0
	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
ဖွ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Ë	Solid wooden frame	0
	Aluminium frame	0



Information

For additional technical information please see appendix, indicated with i

• Standard On request



Tender specifications

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 50-1.00

Approval

Approval No. 3613/3350-1

Optional function

- Sound-Insulation Rw,P = 50 dB
- O Sound-Insulation Rw,P = 48 dB
- O Burglar-Protection WK 2
- O Radiation-Protection

Dimensions

				. [3F	₹-	W	ic	ltŀ	1	Χ			 	. BR-height
															. Throat opening

walls	
O Solid wall	(N
O Gasblock concrete wall	(N
O Gypsum plasterboard wall	(L
O Glazing Type 25 V	(F
OWooden elements ≥ F 30B	
OSteel elements ≥ F 30A	

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame O Face expansion.
- . . /. mm O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening Trapezoid anchor fastening
- O Projecting frame
- O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm
- O Solid wooden frame, 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame

Door leaf

Door leaf thickness about 91 mm

- Rebated (F)
- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable Unrebated

- Double-rebated
- VX7939/160-4 N FD VX7729/160-4 N O BSW090-747/160, VX OBSW090-745/160 DF, VX OAdditional 3rd hinge O Additional 3rd hinge
- O Additional 4th hinge OAdditional 4th hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable (VHX) Unrebated

- Double-rebated VX7939/160-4 N FD
- O VX7729/160-4 N O BSW090-747/160, VX
- OBSW090-745/160 DF, VX OAdditional 3rd hinge OAdditional 4th hinge
- O Additional 3rd hinge O Additional 4th hinge
- Ŏ..... Hinge surface
- Galvanised Matt nickel-plated
 - Brass-coloured Stainless steel Colour-coated

- PZ-lock according to DIN 18250, backset 80 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system
 Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OFlush handle
- OPanic pushbar OSecurity handle-set
- OCode card handle-set

Handle surface

- Aluminium Stainless steel
- Plastic material
- О⊚

Door closer

Overhead door closer according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73

- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operator

according to DIN 18263 OGEZE TSA 160 NT F

OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

Floor-mounted door closer according to DIN EN 1154

- OGEZE BTS 550 F
- OGEZE BTS 550 F-G
- ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector OExternal smoke detector
- Door closer surface
- Silver-coloured - Stainless steel Colour-coated

O[®]......

- Special equipment
- 2 retractable bottom seals
- OClimate category III OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike
- ODoor viewe OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)



50-1

1-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



Sound-Insulation Rw,P = 50 dBSound-Insulation Rw,P = 48 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



O Radiation-Protection



Models



50-1.00

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-1500 1750-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	781-1406 1703-2953
Din	Door leaf thickness	91
٦	Solid door	0
atio	Style door (profile beads)	0
igur	Climate category II	•
Configuration	Climate category III	0
0	Stress group E (4)	•

σ.	Rebated	0
Edge	Double-rebated	•
"	with double jamb rebate	0
	Solid wall	0
Walls	Gasblock concrete wall	0
Ma	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
nes	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Solid wooden frame	0



Information

For additional technical information please see appendix, indicated with i



Standard On request



Tender specifications

 $S_m - C5$

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door/-Flap Model 35.00 / 35.10 / 35.00 KL / 35.10 KL

Approval

- Approval No. 3427/3179-1
- OCE-label according to DIN EN 14351-1 (external doors), applied for approval

Optional function

- Sound-Insulation Rw,P = 42 dB Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB O Burglar-Protection WK 2
- OBurglar-Protection WK 3
- Climate sturdiness Climate category IV
- Protection against cold/heat insulation (solid door) $u = 1,38 \frac{W}{m^2 \cdot K}$ (SD 42)

 $u = 1,31 \frac{W}{m^2 \cdot K}$

(SD 37 / SD 32)

Seal impermeability

 $a < 1.0 \, \frac{m^3}{h \cdot m} \,$ da Pa $^{2/3}$

Dimensions

	 	. BR-width x	 BR-height
	 		 Throat opening

Walls

- O Solid wall (M)O Gasblock concrete wall OGypsum plasterboard wall OGlazing Type 25 V
- OWooden elements ≥ F 30B
- OSteel elements ≥ F 30A

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

Solid wooden frame, 70/95 mm,

- aluminium stop rail
- Standard installation
- Installation in front of wall opening
- Projecting installation

Door leaf thickness about 70 mm

- Double-rebated (D)
- Solid door, climate category IV
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OColour-coated edge

Vision panel

Type of glass

OCombination of ESG, VSG or wire glass with different functional glass, depending on purpose

Configuration

- OStandard
- OFramed glazing
- OAccording to DIN 68706 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500, 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass

Glazing beads

- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating / HPL 0500 A
- OColour-coated OColour-scumbled

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Double-rebated
- VX 7939/160 FD
- OBSW 060-21 VX FD
- OAdditional 3rd hinge
- Hinge surface

Galvanised

- Matt nickel-plated Stainless steel - Colour-coated
- Plastic material - Brass-coloured

- PZ-lock according to DIN 18250, backset 80 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel - Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer according to DIN EN 1154

- GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000 OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operator according to DIN 18263

- OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface

- Silver-coloured Stainless steel
- Colour-coated

Special equipment

- Retractable bottom seal
- OElectrical strike
- ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



35 N

1-leaf door

Performance overview

 S_m-C5

Main function



Smoke-Protection

Optional function



- Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



 Climate sturdiness, protection against cold/ heat insulation

Note

Door element for external use; for not directly weather exposed locations.

Models



35.00





35.00 KL



Flap 35.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	689-1314 1782-2282
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	539-1164 1707-2207
Din	Door leaf thickness	70
n	Solid door	О
atio	Door with vision panel	0
Configuration	Style door (profile beads)	0
onfi	Climate category IV	•
ပ	Stress group E (4)	•

Edge	Double-rebated	•
	Solid wall	0
Walls	Gasblock concrete wall	0
8	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
Frame	Solid wooden frame	•



Information

For additional technical information please see appendix, indicated with i



Standard O On request



Tender specifications

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 10.00 / 10.10

Approval

Approval No. 3304/8409

Optional function

- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

Dimensions

	 	. BR-width	X	BR-height
	 			Throat opening

O Solid wall O Gasblock concrete wall O Gypsum plasterboard wall O Glazing Type 25 V O Wooden elements ≥ F 30B O Steel elements ≥ F 30A	Walls
O Gypsum plasterboard wall O Glazing Type 25 V O Wooden elements ≥ F 30B	O Solid wall
O Glazing Type 25 V O Wooden elements ≥ F 30B	O Gasblock concrete wall
OWooden elements ≥ F 30B	O Gypsum plasterboard wall
	O Glazing Type 25 V
OSteel elements ≥ F 30A	OWooden elements ≥ F 30B
	O Steel elements ≥ F 30A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame O Face expansion.
- . . . /. mm O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- O Projecting frame
- O Required face width /. . . . mm
- OFrame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame OSheet thickness 2 mm
- OBackbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm
- O Solid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf

- Door leaf thickness about 110 mm
- Double-rebated (D)
- Unrebated with double jamb rebate (S)

- Solid door, climate category II
- Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel
- OArched door

Edges

- Concealed solid wood edge band, 3-sided
- OColour-coated edge

Vision panel

Type of glass

- Phonstop 31/45 GH (clear glass)
- OPhonstop 31/45 GH (patterned glass 504)

Configuration

- **OStandard**
- OFramed glazing
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
 OSpecial vision panel size mm
 ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Double-rebated for Rw,P = 45 dB/42 dB

- VX 7939/160 FD, 3-d
- OBSW 060-21 VX FD, 3-d for Rw,P = $37 \, dB/32 \, dB$
- VX 7939/160, 3-d
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated for Rw,P = 45 dB/42 dB
- VX 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB/32 dB
- VX 7939/160
- OBSW 060-21 VX
- QVIELER ER TR 160 337 E OHEWI B8107.160 VX
- OAdditional 3rd hinge
- Hinge surface
- Galvanised
 - Matt nickel-plated
- Plastic material Brass-coloured

Unrebated

Unrebated

VX 7729/160

O BSW 060-22 VX

O VIELER ER.TB.160.332.S

O Concealed hinges
O HEWI B9107.160 VX

O Additional 3rd hinge

○◎.....

VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge

O BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S. 3-d.

O HEWI B9107.160 VX, 3-d.

- Stainless steel
- Colour-coated

Locks

- PZ-lock according to DIN 18250, backset 80 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system
 Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OFlush handle
- OPanic pushbar
- OSecurity handle-set OCode card handle-set

Handle surface

- Aluminium
- Stainless steel Plastic material

Door closer

Overhead door closer according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73

- ODORMA TS 83
- ODORMA TS 93 OGEZE TS 5500
- ODORMA ITS 96 / GEZE Boxer

Automatic door operator

according to DIN 18263 OGEZE TSA 160 NT F OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Floor-mounted door closer

- according to DIN EN 1154
- OGEZE BTS 550 F
- OGEZE BTS 550 F-G

ODORMA BTS 80 F

- Additional options for door closers
- OIntegrated hold-open device
- OFree-swing function OIntegrated hold-open device with smoke detector OExternal smoke detector
- Door closer surface
- Silver-coloured
- Stainless steel
- Colour-coated
- Special equipment
- 2 retractable bottom seals OElectrical strike
- ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)



10 N

1-leaf door

Performance overview

 S_m -C5

RS

Main function



Smoke-Protection

Optional function



- \odot Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



10.00



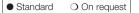
Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	750-1500 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	686-1436 1718-3468
۵	Door leaf thickness	110
	Solid door	0
ion	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	О
Con	Climate category II	•
	Stress group E (4)	•

Edge	Double-rebated	0
Ed	with double jamb rebate	0
	Solid wall	0
Walls	Gasblock concrete wall	0
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
nes	Wooden block frame	0
Frames	Solid wooden frame	0
	4-sided frame	0



Information





Tender specifications

Information

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 17.00

Approval

Approval No. 3815/5130-1

Optional function

- Sound-Insulation Rw,P = 48 dB
- O Burglar-Protection WK 2
- OBurglar-Protection WK 3
- O Radiation-Protection

Dimensions

S BR-width x	
NA7 - III -	1

Walls

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wa	II (L)

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Floor recess 30 mm
- Backbend 15 mm
 without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
 Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OProjecting frame
- O Required face width / . . . mm
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

170

- OWooden block frame, architrave 45/75 mm
- OSolid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall openingProjecting installation
- O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm

- Double-rebated (D)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- OArched door

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

- Double-rebated
- VX 7939/160 FD, 3-d. OBSW 060-21 VX FD, 3-d.

Three-roll-hinges, 2 pieces, 160 mm,

- hinge base 3D adjustable (VHX)
- Double-rebated ● VX 7939/160 FD
- OBSW 060-21 VX FD
- OAdditional 3rd hinge

O[®] Hinge surface

- Galvanised
 - Brass-coloured Matt nickel-plated
- Stainless steel

Locks

- PZ-lock according to DIN 18250,
- backset 65 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system
 Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OFlush handle
- OPanic pushbar
- OSecurity handle-set OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

О७ Door closer

Overhead door closer according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73

- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000 ODORMA ITS 96 / GEZE Boxer

Automatic door operator according to DIN 18263

- OGEZE TŠA 160 NT F
- OGEZE Slimdrive EMD F
- ODORMA ED 100 / 200 / 250

Floor-mounted door closer according to DIN EN 1154

- OGEZE BTS 550 F OGEZE BTS 550 F-G
- ODORMA BTS 80 F
- Additional options for door closers OIntegrated hold-open device
- OFree-swing function
 OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated

O®......®C Special equipment

- •2 retractable bottom seals
- OClimate category III
 OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike ODoor viewer
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)



17 N

1-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



● Sound-Insulation Rw,P = 48 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



O Radiation-Protection



Models



17.00

Performance profile

(mm) sı	Basic dimension BR-width Basic dimension BR-height	625-1314 1750-2500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	531-1220 1703-2453
Din	Door leaf thickness	70
u	Solid door	0
atio	Style door (profile beads)	0
Configuration	Climate category II	•
onfi	Climate category III	0
0	Stress group E (4)	•

Edge	Double-rebated	•
w	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
	Steel frame	0
Frames	Wooden wrap-around frame	О
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



For additional technical information please see appendix, indicated with





FORM

Schörghuber



Tender specifications

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door/-Flap Model 25.10 / 25.10 KL

Approval

Approval No. 3433/3433-1-DS/Ma

Optional function

- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

٠.	٠		٠		٠					 	٠	Throat opening
												. BR-height

Walls	
O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
O Glazing Type 25 V	(F)
O Wooden elements ≥ F 30B	
O Steel elements ≥ F 30A	

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm
- Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion / mm
 O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame O Sports hall frame
- O Required face width /. . . . mm OFrame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame OSheet thickness 2 mm
- OBackbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Wooden wrap-around frame, architrave 60/60 mm O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Aluminium frames

Anodized or colour powder-coated, 3-sided special gasket black

- OWrap-around frame OBlock frame with quirk
- O Round-shaped frame

Door leaf

Frame width 73/95 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Safety glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II
- OSolid wood framed door with round arch

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OVSG 8 mm (clear glass)
- ODSG 7 mm
- OPyrodur 30-10, 7 mm OPhonstop 31/45 GH (clear glass) Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm door rebate dimension over 1100 mm with bottom frieze 195 mm
- Owithout middle frieze, minimum frame widths side/top/bottom ≥ 105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm, on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm
- 🔊 / / ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- On site coating/undercoating foil
- OColour-coated
- O.....

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 vx, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge.

- Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)
- Rebated
- VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107 160 VX OAdditional 3rd hinge O.
- Unrebated
- VSX 7729/160 O VX 7729/160 O BSW 060-22 VX

● VSX 7729/160, 3-d.

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O Additional 3rd hinge

O Concealed hinges
O HEWI B9107.160 VX, 3-d.

O VIELER ER.TB.160.332.S O Concealed hinges
O HEWI B9107.160 VX

○◎......

- O Additional 3rd hinge
- Hinge surface
- Galvanised Matt nickel-plated
- Plastic material - Brass-coloured
- Stainless steel
- Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm.
- ONarrow style lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
 OCode card lock system

Forend surface

- Galvanised
- Stainless steel - Brass-plated

Handles

- 9 mm spindle • FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set OCode card handle-set
- Handle surface Aluminium
- Stainless steel
- Plastic material

Door closer

- Overhead door closer according to DIN EN 1154 GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83 ODORMA TS 93
- OGEZE TS 3000

OGEZE TS 5000 ODORMA ITS 96 / GEZE Boxer Automatic door operator

- according to DIN 18263 OGEZE TŠA 160 NT F
- OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Floor-mounted door closer according to DIN EN 1154

- OGEZE BTS 550 F
- OGEZE BTS 550 F-G
- ODORMA BTS 80 F
- Additional options for door closers OIntegrated hold-open device
- OFree-swing function
 OIntegrated hold-open device with smoke detector
- OExternal smoke detector Door closer surface
- Silver-coloured
- Stainless steel Colour-coated
- O®.....
- Special equipment Retractable bottom seal
- OElectrical strike OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)



25 N

1-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



- \bigcirc Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



25.10



Flap

25.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 1750-3750
Dimensions	Clear passage LD-width Clear passage LD-height	561-1436 1718-3718
	Door leaf thickness	73/95
tion	Solid wood framed door	•
Configuration	Solid wood framed style door (coffer, panel, panel version II)	0
Cor	Climate category II	•
ge	Rebated	0
Edge	Unrebated with jamb rebate	0

	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	Aluminium frame	0



Information

For additional technical information please see appendix, indicated with i



Standard O On request



25 N Slimline

1-leaf door

Tender specifications

Information

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 25.10 Slimline

Approval

Applied for approval

Optional function

O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

🕲 BR-width x BR-height 🕲 Throat opening

walls	
O Solid wall	(M
O Gasblock concrete wall	(M
O Gypsum plasterboard wall	(L
OF 30-Glazing Type 25 V	(F
OWooden elements ≥ F 30B	,
O Steel elements ≥ F 30A	

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Solid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways Installation in front of wall opening Projecting installation
- O4-sided frame

Door leaf

Frame width 50 mm

- Unrebated
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

- ESG 8 mm (clear glass) OESG 10 mm (clear glass)
- OVSG 10 mm (clear glass)

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom \geq 30/30/0 mm
- Owithout middle frieze, minimum frame widths

side/top/bottom ≥ 30/30/0 mm, on request with bar ≥ 55 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm

 \bigcirc/ for bottom frieze widths = 0 mm, stainless steel guard rail required

ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OOn site coating/undercoating foil
- OColour-coated
- O⊚.....

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Unrebated VX 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OHEWI B9107.160 VX
- OAdditional 3rd hinge
- Ō®..

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated Brass-coloured
- Stainless steel
- Colour-coated

Locks

- PZ-lock according to DIN 18250, backset 65 mm,
- ONarrow style lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
 OLock with special security equipment
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

9 mm spindle

- FS-handles, plastic material, round-shaped. with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer according to DIN EN 1154

● DORMA ITS 96 / GEZE Boxer

OGEZE TS 4000 / DORMA TS 73

ODORMA TS 83 ODORMA TS 93

OGEZE TS 3000 OGEZE TS 5000

Automatic door operator according to DIN 18263

OGEZE TSA 160 NT F

OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

Floor-mounted door closer according to DIN EN 1154

OGEZE BTS 550 F-G

Additional options for door closers

OIntegrated hold-open device

OFree-swing function

OIntegrated hold-open device with smoke detector
OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- Retractable bottom seal
- OElectrical strike
- OSill seal with aluminium threshold OBlock lock
- OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts



25 N Slimline

1-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



O Sound-Insulation Rw,P = 37 dB

O Sound-Insulation Rw,P = 32 dB



Models



25.10 SL



25.10 SL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	750-1375 1750-2625
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	648-1250 1699-2449
	Door leaf thickness	50
ion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	0
Cor	Climate category II	•
Edge	Unrebated	•

	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
rames	Solid wooden frame	0
Frar	4-sided frame	0



Information





3 N ST

1-leaf sliding door

Tender specifications

 $S_m - C5$

Information

For additional technical information please see appendix, indicated with



(L) (F)

T 30-1 FORM-Smoke-Protection sliding door, window Model 3.00 ST / 3.10 ST

Approval

Applied for approval

Optional function

O Sound-Insulation Rw,P = 32 dB O Sound-Insulation Rw,P = 37 dB

🕲 BR-width x BR-height 🖎 Throat opening

O Solid wall

O Gypsum plasterboard wall OF 30-Glazing Type 25 V OWooden elements ≥ F 30B

O Steel elements ≥ F 30A

Steel frames

OSteel wrap-around frame

OFrame for installation in existing walls

- Adapter fastening

- Trapezoid anchor fastening

OSteel block frame with concealed slide rail

Wooden frames

O Wooden wrap-around frame

OWooden corner frame

OWooden block frame

with concealed slide rail

Door leaf

Thickness of door leaf about 50 mm

Unrebated (S)

Solid door, climate category II

ODoor with vision panel

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-, 3-, 4-sided

OPU-edge

OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

OStandard

OFramed glazing

OAccording to DIN 68706 OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm

OSpecial vision panel size 🕲 mm

Glazing beads

OSolid wood veneered

OSolid wood

Surfaces

Door leaf / Wooden frame

OVeneer

- Transparently coated

- Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

OAluminium slide rail with plastic material rolls

without lock

OCircular lock

OUnrebated pulls on both sides

OManual opening, closing by weight with shock absorbing action

OMagnetic locking device in

combination with smoke detector

OAutomatic door operator, on request control with light barrier, key-operated push button, code card reader, etc.

Special equipment

Retractable bottom seal

OClimate category III

ODoor viewer

OKick plate (aluminium/stainless steel)



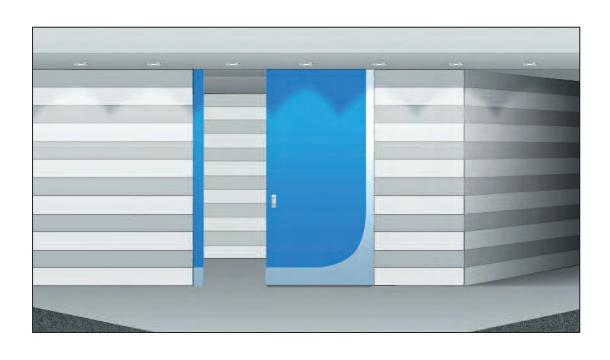
3 N ST

1-leaf sliding door

Performance overview

 S_m-C5

Smoke-Protection-Doors



Main function



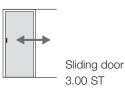
Smoke-Protection RS

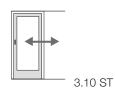
Optional function



O Sound-Insulation Rw,P = 32 dB

Models









Sliding window 3.00 ST

3.10 ST

Performance profile

s (mm)	Basic dimension Basic dimension	BR-width BR-height	625-1500 625-3000
Dimensions (mm)	Clear opening Clear opening	LD-width LD-height	561-1370 591-2968
٦	Door leaf thickness	50	
ion	Solid door		0
urat	Door with vision p	anel	0
Configuration	Climate category	•	
ပိ	Climate category	III	0

Edge	Unrebated	•
"	Solid wall	0
Walls	Gypsum plasterboard wall	0
>	Glazing Type 25 V	0
	Steel frame	0
nes	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Wooden corner frame	0







1-leaf door, with top panel

Tender specifications

- Plastic material

- Brass-coloured

Colour-coated

For additional technical information please see appendix, indicated with

RS-1 FORM-Smoke-Protection-Door Model 3.01 / 3.11 / 3.02 / 3.12

Approval No. 3436/3741-1

Optional function

- Sound-Insulation Rw,P = 32 dB
- O Radiation-Protection

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall

(M) (M) O Gasblock concrete wall O Gypsum plasterboard wall (L) (F) OGlazing Type 25 V

OWooden elements ≥ F 30B OSteel elements ≥ F 30A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Floor recess 30 mm - Backbend 15 mm
- without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame O Face expansion .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
 O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening (top panel)
- O Sports hall frame
- O Projecting frame
- O Finelin frame
- O Required face width /. . . . mm O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm

 Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
 O Fixed side panel
- O4-sided frame

Door leaf thickness about 50 mm

- Rebated (F) Unrebated (S)
- Unrebated with jamb rebate (S) Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided 178

- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional
- wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OVSG 8 mm (clear glass)
- ODSG 7 mm
- OPyrodur 30-10, 7 mm

Configuration

- OFramed glazing

- OAccording to DIN 68706
 Vision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size . ODecorative beads on glass
- Glazing beads
- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated
- with transom
- OFanlight with transom and Safety glass same as vision panel

Door leaf / Top panel / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames
Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable

- Rebated
- VS 8939
- OVN 8938
- OVSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d. OHEWI B8108.160
- OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

0.....

- Unrebated ● VS 8949
- O VN 8948 O VSX 7729/160, 3-d.
- O VX 7729/160, 3-d. O VX 7728-160-FORM
- O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges
- O HFWI B9108.160
- O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

● VSX 7729/160

O VX 7729/160

O VX 7728-160-FORM

O HEWI B9107.160 VX

O VIELER ER.TB.160.332.S
O Concealed hinges

O Additional 3rd hinge

O BSW 060-22 VX

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- Rebated ● VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107 160 VX O Additional 3rd hinge

- PZ-lock according to DIN 18250, backset 65 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever

Matt nickel-plated

Stainless steel

- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting OCode card lock system

Forend surface

Hinge surface

Galvanised

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
 OCode card handle-set
- Handle surface Aluminium
- Stainless steel - Plastic material

- Overhead door closer according to DIN EN 1154 GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer

- Automatic door operator according to DIN 18263 OGEZE TSA 160 NT F
- OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250
- Floor-mounted door closer according to DIN EN 1154
- OGEZE BTS 550 F OGEZE BTS 550 F-G ODORMA BTS 80 F
- Additional options for door closers
- OIntegrated hold-open device
- OFree-swing function
 OIntegrated hold-open device with smoke detector
- OExternal smoke detector
- Door closer surface
- Silver-coloured Stainless steel
- Colour-coated
- Special equipment Retractable bottom seal

○◎

- OClimate category III
 OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike ODoor viewer
- OSill seal with aluminium threshold OBlock lock
- OBolt contact
- OMagnetic contact
 OCable channel
- OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)
- - On request
- Standard



1-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



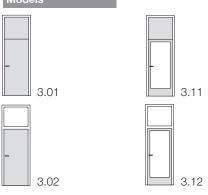
Sound-Insulation Rw,P = 32 dB



O Radiation-Protection



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	500-1375 2000-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	436-1311 1968-3468 1718-2718
Dir	Door leaf thickness	50
	Solid door	0
	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
ıfigu	Climate category II	•
Cor	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
	Unrebated	0
	Unrebated with jamb rebate	0
Walls	Solid wall	О
	Gasblock concrete wall	0
	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	Aluminium frame	0



Information

For additional technical information please see appendix, indicated with i



O On request



1-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 13.01 / 13.11 / 13.02 / 13.12

Approval

Approval No. 3436/3741-1

Optional function

● Sound-Insulation Rw,P = 37 dB

O Radiation-Protection

🐿 Throat opening

O Solid wall O Gasblock concrete wall

(M)(M)(L) (F)

OGypsum plasterboard wall O Glazing Type 25 V OWooden elements ≥ F 30B

O Steel elements ≥ F 30A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

Backbend 9 mm - Floor recess 30 mm Backbend 15 mm
 without floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

Standard installation

Installation in hallwaysRound-shaped frame

O Face expansion . . . /. mm

O Decorative rebated frame, rebate depth mm

O Expansion joint frame

OFrame for installation in existing walls

Adapter fastening
Trapezoid anchor fastening (top panel)

O Sports hall frame

O Projecting frame

O Fineline frame

O Required face width /. . . . mm

O Frame for reconstruction

O Fixed side panel
O Configuration in stainless steel

O4-sided frame

OSheet thickness 2 mm

O Backbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm

Standard installation

Installation in hallways

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel

O4-sided frame

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Unrebated with jamb rebate (S)

180

Solid door, climate category II

● Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OPU-edge OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

Optiphon 11/10 N (clear glass)
Configuration

OStandard

OFramed glazing
OAccording to DIN 68706
OVision panel, 215/1015 mm
OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel size .

ODecorative beads on glass Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

OTop panel

- Counter-rebated

Counter-rebated with rabbet ledge (from door leaf height 2235 mm)

with transom

OFanlight with transom and Safety glass same as vision panel

Door leaf / Top panel / Wooden frame

Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable

Rebated ● VS 8939

OVN 8938

OVSX 7939/160, 3-d. OVX 7939/160, 3-d.

OBSW 060-21 VX, 3-d.

OVELER ER.TB.160.337.F, 3-d. OHEWI B8108.160

OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

Unrebated

VS 8949

O VSX 7729/160, 3-d. O VX 7729/160, 3-d.

O VX 7728-160-FORM O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d.

O Concealed hinges O HEWI B9108.160 O HEWI B9107.160 VX, 3-d.

O Additional 3rd hinge

Wooden frames

OHEWI B8107.160 VX

OAdditional 3rd hinge

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated ● VSX 7939/160

Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F

O.

Unrebated ● VSX 7729/160

O VX 7729/160 O VX 7728-160-FORM O BSW 060-22 VX OVIELER ER.TB.160.332.S

O Concealed hinges O HEWI B9107.160 VX O Additional 3rd hinge

Hinge surface

Galvanised - Plastic material

Matt nickel-plated

- Brass-coloured

Stainless steel - Colour-coated

PZ-lock according to DIN 18250, backset 65 mm,

OPanic lock, fixed knob on one side

OPanic lock, lever-lever

OSelf-bolting panic locks OLock with special security equipment

OCode card lock system

Forend surface

Galvanised

Stainless steel

Brass-plated

Handles

9 mm spindle

• FS-handles, plastic material, round-shaped,

with short backplate, RAL 9005 black OFS-Handles according to DIN 18273

- with short backplate

with rosette

with rectangular backplate

with long backplate OKnob-lever-set, fixed knob on one side OPanic pushbar

OSecurity handle-set OCode card handle-set Handle surface

- Aluminium Stainless steel

Plastic material

Door closer

Overhead door closer

according to DIN EN 1154 • GEZE TS 4000 / DORMA TS 73 ODORMA TS 83

ODORMA TS 93

OGEZE TS 3000

OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer Automatic door operator according to DIN 18263 OGEZE TSA 160 NT F

OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250

Floor-mounted door closer according to DIN EN 1154 OGEZE BTS 550 F

OGEZE BTS 550 F-G

ODORMA BTS 80 F Additional options for door closers

OIntegrated hold-open device

OFree-swing function OIntegrated hold-open device with smoke detector

OExternal smoke detector Door closer surface

Silver-coloured

Stainless steel

Colour-coated

Special equipment Retractable bottom seal

OClimate category III
OLead inlay for Radiation-Protection up to 4 mm
OElectrical strike

ODoor viewer

OBlock lock

OSecurity bolts

OBolt contact OMagnetic contact

OCable channel OConcealed cable transition

OKick plate (aluminium/stainless steel)

Standard On request



13 N

1-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



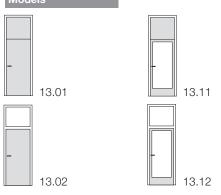
■ Sound-Insulation Rw,P = 37 dB



O Radiation-Protection



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1375 2000-3500			
Dimensions	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1311 1968-3468 1718-2718			
Din	Door leaf thickness	50			
	Solid door	О			
ion	Door with vision panel	0			
Configuration	Style door (profile beads)	0			
-ligi	Climate category II	•			
Co	Climate category III	0			
	Stress group E (4)	•			

a)	Rebated	O
Edge	Unrebated	О
	Unrebated with jamb rebate	0
	Solid wall	0
Walls	Gasblock concrete wall	0
	Gypsum plasterboard wall	О
	Glazing Type 25 V	О
	Steel frame	О
Frames	Wooden wrap-around frame	О
	Wooden block frame	O
	Solid wooden frame	0
	Aluminium frame	0



Information

For additional technical information please see appendix, indicated with i







1-leaf door, with top panel

Tender specifications

O Additional 3rd hinge

- Plastic material

Brass-coloured

Colour-coated

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 16.01 / 16.11 / 16.02 / 16.12

Approval

Approval No. 3421/3353-1

Optional function

- Sound-Insulation Rw,P = 32 dB
- O Burglar-Protection WK 2 O Burglar-Protection WK 3
- O Radiation-Protection

Dimensions

🕲 BR-width x BR-height 🕲 Throat opening

- O Solid wall O Gasblock concrete wall (M) O Gypsum plasterboard wall (L) (F) OGlazing Type 25 V
- OWooden elements ≥ F 30B OSteel elements ≥ F 30A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mmFloor recess 30 mm Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame

 Standard installation

 Installation in hallway
- Installation in hallways
- O Round-shaped frame
- O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- O Sports hall frame
- O Fineline frame
- ORequired face width /. . . . mm
- O Frame for reconstruction O Fixed side panel
- OProjecting frame
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

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- O Solid wooden frame, 70/73 mm, respectively 70/95 mm
- Standard installation
- Installation in hallways
 Installation in front of wall opening
- Projecting installation
- O4-sided frame
- OFrame for reconstruction
- O Fixed side panel

Door leaf thickness about 70 mm

Rebated (F)

- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
- OSolid door, climate category III
- Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)OVSG 8 mm (clear glass)
- ODSG 8 mm
- OPyrodur 30-10, 7 mm
- OAllstop B1-10 OAllstop A3-15

Configuration

- OStandard OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm OAs multiple glazed door
- OSpecial vision panel size . . ODecorative beads on glass

- Glazing beads
 OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

- OTop panel
- Counter-rebated with single rebate
- with transom
- OFanlight with transom and Safety glass same as vision panel

Surfaces

Door leaf / Top panel / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Rebated / Double-rebated Unrebated
- VSX 7939/160, 3-d. OVX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

Wooden frames

- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated / Double-rebated Unrebated
- VSX 7939/160 Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX

OAdditional 3rd hinge

● VSX 7729/160 O VX 7729/160 O BSW 060-22 VX

• VSX 7729/160, 3-d.

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

O Additional 3rd hinge

OVIELER ER.TB.160.332 S, 3-d.

O Concealed hinges
O HEWI B9107.160 VX, 3-d.

O Concealed hinges
O HEWI B9107.160 VX

O VIELER ER.TB.160.332.S

OTriple bolting
OCode card lock system Forend surface

O®......

Matt nickel-plated

PZ-lock according to DIN 18250,

OPanic lock, fixed knob on one side

OLock with special security equipment

Stainless steel

backset 65 mm,

OPanic lock, lever-lever

OSelf-bolting panic locks

Hinge surface

Galvanised

Locks

- Galvanised Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side OFlush handle
- OPanic pushbar
- OSecurity handle-set OCode card handle-set
- Handle surface
- Aluminium Stainless steel - Plastic material

Door closer

Overhead door closer

- according to DIN EN 1154
- GEZE TS 4000 / DORMA TS 73

- ODORMA TS 83 ODORMA TS 93 OGEZE TS 3000 OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operator according to DIN 18263

- OGEZE TSA 160 NT F OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250
- Floor-mounted door closer according to DIN EN 1154
- OGEZE BTS 550 F
- OGEZE BTS 550 F-G ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector OExternal smoke detector Door closer surface
- Silver-coloured Stainless steel Colour-coated

- Special equipment Retractable bottom seal
- OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike ODoor viewer
- OSill seal with aluminium threshold OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel) On request
- Standard

Security bolts



16 N

1-leaf door, with top panel

Performance overview

 S_m-C5

Main function



Smoke-Protection

Optional function



Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3 in combination with a 25 V fanlight



O Radiation-Protection



Rebated

Solid wall

Steel frame

Double-rebated

Unrebated with jamb rebate

Gasblock concrete wall

Glazing Type 25 V

Wooden block frame

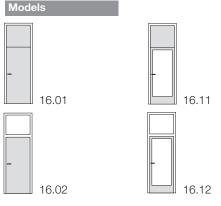
Solid wooden frame

4-sided frame

Gypsum plasterboard wall

Wooden wrap-around frame





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-4000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-3968 1718-3468
Dir	Door leaf thickness	70
	Solid door	0
Ľ	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
onfi	Climate category II	•
Ö	Climate category III	0
	Stress group E (4)	•

Super size: On request with a door leaf width of up to 2000 mm!



For additional technical information please see appendix, indicated with i



 Standard 	On request

0

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1-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 5.01 / 5.11 / 5.02 / 5.12

Approval No. 3613/3350-1

Optional function

- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- OBurglar-Protection WK 2
- O Burglar-Protection WK 3
- O Radiation-Protection

Dimensions

					Е	BF	ξ-	W	ΊC	tt	h	Χ					. BR-height
																	Throat opening

Walls		

- O Gasblock concrete wall
- (M)
- O Gypsum plasterboard wall O Glazing Type 25 V
- (L) (F)
- OWooden elements ≥ F 30B
- O Steel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mm
- Floor recess 30 mm
- without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion /. mm O Decorative rebated frame, rebate depth mm
- O Expansion joint frame
- O Frame for installation in existing walls

 Adapter fastening

 Trapezoid anchor fastening (top panel)

- OProjecting frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- Q4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

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- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm, respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
 Frame for reconstruction
- O Fixed side panel O4-sided frame

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)

- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Type of glass

- Phonstop 31/45 GH (clear glass)
 Phonstop 31/45 GH (patterned glass 504)
 Allstop B1-13 GH
- OAllstop A3-15 GH

Configuration

- OStandard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500, 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

- Glazing beads
 OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

- OTop panel
- Counter-rebated (double-rebated)
- with transom
- OFanlight with transom and Phonstop-Glazing 31/45 GH

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

● VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O Additional 3rd hinge

O VSX 7729/160

O BSW 060-22 VX

O Concealed hinges

O HEWI B9107.160 VX

O Additional 3rd hinge

O VIELER ER.TB.160.332.S

O VX 7729/160

O BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S, 3-d.

O Concealed hinges
O HEWI B9107.160 VX, 3-d.

- Rebated / Double-rebated Unrebated for Rw,P = 42 dB vsx 7729/10 • VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB
- VSX 7939/160, 3-d.
 OVX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d OVIELER ER.TB. 160.337.F. 3-d.
- Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable (VHX)

- Rebated / Double-rebated Unrebated for Rw,P = 42 dB

 • vx 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB

 VSX 7939/160 Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.335.F
- OHEWI B8107,160 VX OAdditional 3rd hinge O®

- Hinge surface
 - Galvanised - Plastic material
- Matt nickel-plated - Brass-coloured
- Stainless steel Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
 OCode card handle-set Handle surface
- Aluminium Stainless steel
- Plastic material

- Overhead door closer according to DIN EN 1154 GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer

- Automatic door operator according to DIN 18263 OGEZE TSA 160 NT F
- OGEZE Slimdrive EMD F
- ODORMA ED 100 / 200 / 250 Floor-mounted door closer according to DIN EN 1154
- OGEZE BTS 550 F OGEZE BTS 550 F-G
- ODORMA BTS 80 F
- Additional options for door closers OIntegrated hold-open device

OFree-swing function OIntegrated hold-open device with smoke detector

- OExternal smoke detector Door closer surface
- Silver-coloured
- Stainless steel
- Colour-coated O®
- Special equipment Retractable bottom seal
- OClimate category III
 OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Standard On request
- Please fill in



1-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB



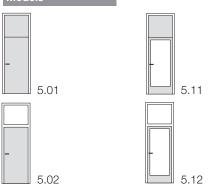
- O Burglar-Protection WK 2 O Burglar-Protection WK 3



O Radiation-Protection



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-3500			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-3468 1718-2968			
Din	Door leaf thickness	70			
	Solid door	0			
ion	Door with vision panel	0			
ırat	Style door (profile beads)	0			
Configuration	Climate category II	•			
S	Climate category III	0			
	Stress group E (4)	•			

4)	Rebated	0
Edge	Unrebated with jamb rebate	0
	Double-rebated	0
	Solid wall	0
SIII.	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Ţ.	Solid wooden frame	О
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i







1-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 35.02 / 35.12

- Approval No. 3427/3179-1
- OCE-label according to DIN EN 14351-1 (external doors), applied for approval

Optional function

- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

- O Burglar-Protection WK 2
 O Burglar-Protection WK 3
 Climate sturdiness
- Climate category IV
- Protection against cold/heat insulation (solid door) $u = 1,38 \frac{W}{m^2 \cdot K}$ (SD 42)

 $u = 1,31 \frac{W}{m^2 \cdot K}$ (SD 37 / SD 32)

 Seal impermeability $a < 1,0 \frac{m^3}{h \cdot m} da Pa^{2/3}$

Dimensions

					Е	3F	₹-	W	/io	dt	h	Х					. BR-height
																	Throat opening

Walls

- O Solid wall O Gasblock concrete wall (M) (L) (F) OGypsum plasterboard wall OGlazing Type 25 VRS
- OWooden elements ≥ F 30B O Steel elements ≥ F 30A

Wooden frames

Colour-coordinated, 3-sided double circumferential

- special gasket (black, grey, white, brown, beige)

 Solid wooden frame, 70/95 mm, aluminium stop rail
- Standard installation
- Installation in front of wall opening
- Projecting installation

Door leaf

Door leaf thickness about 70 mm

- Double-rebated (D)
- Solid door, climate category IV
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OColour-coated edge
- O.....

Vision panel

Type of glass

OCombination of ESG, VSG or wire glass with different functional glass, depending on purpose

Configuration

- **OStandard**

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500, 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

OFanlight with transom and combination of ESG, VSG or wire glass with different functional glass, depending on purpose

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/Veneer
- OColour-scumbled
- OColour-coated

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Double-rebated

- VX 7939/160 FD
- OBSW 060-21 VX FD
- OAdditional 3rd hinge

Hinge surface

- Galvanised - Plastic material Matt nickel-plated
- Stainless steel
- Brass-coloured

- Colour-coated

- PZ-lock according to DIN 18250, backset 80 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer according to DIN EN 1154

- GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000 OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operator according to DIN 18263

- OGEZE TSA 160 NT F
- OGEZE Slimdrive EMD F ODORMA ED 100 / 200 / 250

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface

- Silver-coloured Stainless steel
- Colour-coated

Special equipment

- Retractable bottom seal
- OElectrical strike
- ODoor viewer
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



35 N

1-leaf door, with top panel

Performance overview

 S_m-C5

Main function



Smoke-Protection

Optional function



- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



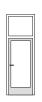
 Climate sturdiness, protection against cold/ heat insulation

Note

Door element for external use; for not directly weather exposed locations.

Models





Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	689-1314 2032-3032			
	Clear passage LD-width Clear passage LD-height Clear passage (door) height	539-1164 1957-2957 1707-2207			
	Door leaf thickness	70			
L	Solid door	O			
atio	Door with vision panel	0			
Configuration	Style door (profile beads)	0			
onfi	Climate category IV	•			
O	Stress group E (4)	•			

Edge	Double-rebated	•								
	Solid wall	0								
Walls	Gasblock concrete wall	0								
×	Gypsum plasterboard wall	0								
	Glazing Type 25 V	0								
Frame	Solid wooden frame									

Information

For additional technical information please see appendix, indicated with i





Smoke-Protection-Doors







35.12









1-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 10.01 / 10.11 / 10.02 / 10.12

Approval No. 3304/8409

Optional function

- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

		BR-width	X	BR-height
				Throat opening
	-	_	-	

walls	
O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wa	ll (L)
OGlazing Type 25 V	(F)
OWooden elements ≥ F 30	В
OSteel elements ≥ F 30A	

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame

- O Expansion joint frame
 O Frame for installation in existing walls
 Adapter fastening
 Trapezoid anchor fastening (top panel)
- OSports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Projecting frame
- O Configuration in stainless steel O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/75 mm O Solid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- Q4-sided frame
- O Frame for reconstruction

Door leaf thickness about 110 mm

- Double-rebated (D)
- Unrebated with double jamb rebate (S)

- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Concealed solid wood edge band, 3-sided
- OColour-coated edge

Vision panel

Type of glass

- Phonstop 31/45 GH (clear glass)
 OPhonstop 31/45 GH (patterned glass 504)

Configuration

- **OStandard**
- OFramed glazing
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Top panel

- OTop panel
- Counter-rebated and double-rebated
- with transom
- OFanlight with transom and Safety glass same as vision panel

Surfaces

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable
- Double-rebated
- for Rw,P = $45 \, dB/42 \, dB$
- VX 7939/160 FD, 3-d.OBSW 060-21 VX FD, 3-d for Rw,P = $37 \, dB / 32 \, dB$
- ●VX 7939/160, 3-d. ◆DBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Wooden frames

- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)
- Double-rebated for Rw,P = $45 \, dB/42 \, dB$
- VX 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB/32 dB
- VX 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX
- OAdditional 3rd hinge

- Unrebated ● VX 7729/160, 3-d.
- O BSW 060-22 VX. 3-d.
- O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge.

- Unrebated
- VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges O HEWI B9107,160 VX
- O Additional 3rd hinge O 🕲

- Hinge surface
 - Galvanised - Plastic material
 - Matt nickel-plated - Brass-coloured
 - Stainless steel Colour-coated

- PZ-lock according to DIN 18250, backset 80 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate OKnob-lever-set, fixed knob on one side
- OFlush handle OPanic pushbar
- OSecurity handle-set
- OCode card handle-set Handle surface
- Stainless steel Plastic material

Aluminium

Door closer Overhead door closer

- according to DIN EN 1154

 GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- ODORMA TS 96 OGEZE TS 5500

ODORMA ITS 96 / GEZE Boxer Automatic door operator according to DIN 18263 OGEZE TSA 160 NT F

- OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Floor-mounted door closer

- according to DIN EN 1154 OGEZE BTS 550 F
- OGEZE BTS 550 F-G ODORMA BTS 80 F
- Additional options for door closers
- OIntegrated hold-open device OFree-swing function OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel Colour-coated
- O⊚......@
- Special equipment • 2 retractable bottom seals
- OElectrical strike ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact OCable channel OConcealed cable transition
- OSecurity bolts
 - OKick plate (aluminium/stainless steel)
- Standard



10 N

1-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

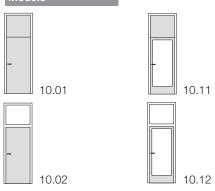
Optional function



- \odot Sound-Insulation Rw,P = 45 dB
- \odot Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	750-1500 2000-5000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	656-1406 1953-4953 1703-3453
٦	Door leaf thickness	110
	Solid door	О
tion	Door with vision panel	О
Configuration	Style door (coffer, panel, profile beads)	0
Cor	Climate category II	•
	Stress group E (4)	•

Edge	Double-rebated	0
Ed	with double jamb rebate	О
	Solid wall	0
Frames Walls	Gasblock concrete wall	О
	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
	Wooden wrap-around frame	О
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i

● Standard On request



1-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 17.01 / 17.02

Approval No. 3815/5130-1

Optional function

- Sound-Insulation Rw,P = 47 dB
- O Burglar-Protection WK 2
- O Burglar-Protection WK 3
- O Radiation-Protection

Dimensions

🕲 BR-width x BR-height

O Solid wall OGasblock concrete wall (M)O Gypsum plasterboard wall (L)

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Floor recess 30 mm
- Backbend 15 mm
 without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Projecting frame
- ORequired face width /. . . . mm
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)
OWooden wrap-around frame, architrave 60/60 mm

OWooden block frame, architrave 45/75 mm

190

- OSolid wooden frame, 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall openingProjecting installation
- O Fixed side panel
- O4-sided frame

Door leaf thickness about 70 mm

- Double-rebated
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Top panel

- OTop panel
- Counter-rebated (double-rebated)
- OFanlight with transom and sound-insulation glass

Door leaf / Top panel / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

- VX 7939/160 FD, 3-d. OBSW 060-21 VX FD, 3-d.
- OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated

- VX 7939/160 FD OBSW 060-21 VX FD
- OAdditional 3rd hinge
- Hinge surface
 - Galvanised - Brass-coloured
- Matt nickel-plated Stainless steel
- Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm,
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OTriple bolting
- OCode card lock system
 Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer according to DIN EN 1154

- GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Automatic door operator according to DIN 18263 OGEZE TSA 160 NT F

- OGEZE Slimdrive EMD F
- ODORMA ED 100 / 200 / 250

Floor-mounted door closer according to DIN EN 1154

- OGEZE BTS 550 F
- OGEZE BTS 550 F-G

ODORMA BTS 80 F

- Additional options for door closers
- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated
- O[®]......
- Special equipment 2 retractable bottom seals
- OClimate category III OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike ODoor viewe
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Standard On request Please fill in



17 N

1-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



● Sound-Insulation Rw,P = 47 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



O Radiation-Protection





17.01



17.02

Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 2000-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	531-1220 1703-3453 1953-2453
٦	Door leaf thickness	70
	Solid door	0
Configuration	Style door (profile beads)	0
ıfigu	Climate category II	•
Cor	Climate category III	0
	Stress group E (4)	•

Edge	Double-rebated	•
w	Solid wall	О
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
	Steel frame	0
Se	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i





1-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



RS-1 FORM-Smoke-Protection-Door Model 25.11 / 25.12

Approval

Approval No. 3433/3433-1

Optional function

O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB

O Sound-Insulation Rw,P = 32 dB

Dimensions

BR-width xBR-height 🕲 Throat opening

Walls O Solid wall O Gasblock concrete wall (M) (L) (F) OGypsum plasterboard wall OGlazing Type 25 V OWooden elements ≥ F 30B O Steel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Gypsum plasterboard wall:

- Backbend 9 mm Floor recess 30 mm
- Backbend 15 mm
 without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation Installation in hallways
- O Round-shaped frame
- OFace expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
 O Frame for installation in existing walls
 Adapter fastening
 Trapezoid anchor fastening (top panel)

- O Projecting frame
- O Sports hall frame
- O Fineline frame
- ORequired face width /. . . . mm
- O Frame for reconstruction O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm, respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf

Frame width 73/95 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Safety glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

- Type of glass

 ESG 8 mm (clear glass)
- OVSG 8 mm (clear glass)
- OPyrodur 30-10, 7 mm
- OPhonstop 31/45 GH (clear glass)

Configuration

OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm door rebate dimension over 1100 mm with bottom frieze 195 mm

side/top/bottom ≥ 105 mm

door rebate dimension over 1100 mm with bottom frieze 195 mm,

on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm 🔊 / /

ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

Top panel

- OTop panel
- Counter-rebated with single rebate
- with transom
- OFanlight with transom and Safety glass same as vision panel

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Rebated
- VSX 7939/160, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- O ©

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated ● VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge
- VSX 7729/160, 3-d. O VX 7729/160, 3-d.

Unrebated

- O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S. 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge

- Unrebated ● VSX 7729/160
- O BSW 060-22 VX O VIELER ER.TB.160.332.S O Concealed hinges
- O HEWI B9107.160 VX. O Additional 3rd hinge

- Hinge surface Galvanised Plastic material
- Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

PZ-lock according to DIN 18250, backset 65 mm,

ONarrow style lock

OPanic lock, fixed knob on one side

OPanic lock, lever-lever

OSelf-bolting panic locks OLock with special security equipment

OTriple bolting

OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
 - OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar OSecurity handle-set
- OCode card handle-set
- Handle surface
- Aluminium Stainless steel
- Plastic material

Door closer

Overhead door closer

- according to DIN EN 1154

 GEZE TS 4000 / DORMA TS 73
- ODORMA TS 83
- ODORMA TS 93
- OGEZE TS 3000
- OGEZE TS 5000

ODORMA ITS 96 / GEZE Boxer Automatic door operator

according to DIN 18263 OGEZE TSA 160 NT F

OGEZE Slimdrive EMD F

ODORMA ED 100 / 200 / 250 Floor-mounted door closer

according to DIN EN 1154 OGEZE BTS 550 F

OGEZE BTS 550 F-G

ODORMA BTS 80 F

Additional options for door closers

OIntegrated hold-open device

OFree-swing function OIntegrated hold-open device with smoke detector

OExternal smoke detector Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated
- Special equipment Retractable bottom seal
- OElectrical strike OSill seal with aluminium threshold
- OBlock lock
- OBolt contact OMagnetic contact

OSecurity bolts

- OCable channel OConcealed cable transition
- OKick plate (aluminium/stainless steel)
- Please fill in



25 N

1-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function

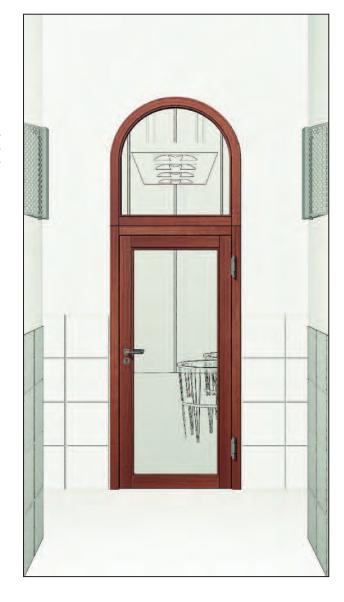


Smoke-Protection

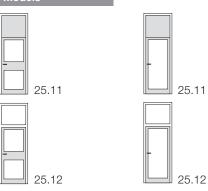
Optional function



- \odot Sound-Insulation Rw,P = 42 dB
- ${f O}$ Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-5000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-4968 1718-3718
٦	Door leaf thickness	73/95
tion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	0
Cor	Climate category II	•
Edge	Rebated	0
Ed	Unrebated with jamb rebate	0

	Solid wall	0
Walls	Gasblock concrete wall	0
	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Si	Steel frame	0
	Wooden wrap-around frame	0
Frames	Wooden block frame	0
иJ	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i





2-leaf door

Tender specifications

 S_m-C5

- Plastic material

- Brass-coloured

- Colour-coated

PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock

OPanic lock, fixed knob on one side

OPanic lock in both leafs, inactive leaf

with concealed panic shot-bolt lock

Information

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door/-Flap Model 4.00 / 4.10 / 4.00 KL / 4.10 KL

Approval

Approval No. 3436/3741-2

Optional function

● Sound-Insulation Rw,P = 32 dB

O Radiation-Protection

🕲 BR-width x BR-height

O Solid wall (M) (M) O Gasblock concrete wall O Gypsum plasterboard wall L) (V) O Solid gypsum wall OGlazing Type 25 V OWooden elements ≥ F 30B

O Covered steel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm - Backbend 15 mm - without floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

Standard installation

Installation in hallways

O Round-shaped frame

OFace expansion /. mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls – Face screw fastening

Adapter fastening

Trapezoid anchor fastening

O Required face width /. . . . mm

O Projecting frame

O Sports hall frame

O Fineline-Zarge
O Frame for reconstruction

O Fixed side panel

O Configuration in stainless steel

O4-sided frame

OSheet thickness 2 mm

OBackbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

O Solid wooden frame, 70/73 mm

Standard installation

Installation in hallways Installation in front of wall opening Projecting installation

O Frame for reconstruction

O Fixed side panel

O4-sided frame

Door leaf thickness about 50 mm, rebated meeting stiles with rabbet ledge on push side

Rebated (F)

Unrebated (S)

Solid door, climate category II

• Stress group E (4)
ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

- with profile beads

with panel

with coffer

with frame-like and/or fielded additional

wood panelling
ODoor with vision panel

OArched door

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge

OVeneer edge
OPlastic material edge

OColour-coated edge

O.....

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OVSG 8 mm (clear glass)

ODSG 7 mm OPyrodur 30-10, 7 mm

Configuration

OStandard

OFramed glazing ODIN 68706

OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel size .

OIntermediate frieze ≥ 60 mm

ODecorative beads on glass

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

● VSX 7939/160, 3-d. ○ VX 7939/160, 3-d.

OBSW 060-21 VX, 3-d.

OVELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.

OSpring hinge FHX 7939/160, 3-d.

(only inactive leaf)

OAdditional 3rd hinge

O Spring hinge FHX 7729/160, 3-d (only inactive leaf) O Additional 3rd hinge O №

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated ● VSX 7939/160

Ovx 7939/160

OBSW 060-21 VX OVIELER ER.TB.160.337.F

OHEWI B8107,160 VX OSpring hinge FHX 7939/160 (only inactive leaf) OAdditional 3rd hinge

Unrebated ● VSX 7729/160

O VX 7729/160 O BSW 060-22 VX

Unrebated

VSX 7729/160, 3-d.

Ovx 7729/160, 3-d.

O Concealed hinges.

O BSW 060-22 VX, 3-d.

 \odot VIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX, 3-d.

O VIELER ER.TB.160.332.S O Concealed hinges
O Spring hinge FHX 7729/160

O HEWI B9107.160 VX O Spring hinge FHX 7729/160 (only inactive leaf) O Additional 3rd hinge

Lever-lever Inactive leaf with one-sided lever OTriple bolting

Hinge surface

Galvanised

Stainless steel

Matt nickel-plated

OPanic lock, lever-lever

Fixed knob on one side

OCode card lock system

Forend surface

Galvanised Stainless steel

Brass-plated

Handles

9 mm spindle

• FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black

OFS-Handles according to DIN 18273

with short backplate with rosette

with rectangular backplate

 with long backplate
 One-sided lever set OKnob-lever-set

OPanic pushbar

OSecurity handle-set OCode card handle-set

Handle surface

- Aluminium

Stainless steel Plastic material

○◎

Door closer Overhead door closer

according to DIN EN 1154

● GEZE TS 5500 IS / DORMA TS 93 GSR

OGEZE TS 4000 IS

OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR Automatic door operator

according to DIN 18263

On the active leaf

On the active and the inactive leaf OGEZE TSA 160 NT F-IS OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR

Floor-mounted door closer

according to DIN EN 1154 OGEZE BTS 550 IS OGEZE BTS 550 IS-G

Additional options for door closers OIntegrated hold-open device

OFree-swing function on the active leaf OIntegrated hold-open device with smoke detector

OExternal smoke detector Door closer surface

Silver-coloured

Stainless steel

- Colour-coated

 Retractable bottom seal OClimate category III

Special equipment

OElectrical strike ODoor viewer

OBlock lock OBolt contact

OMagnetic contact

OCable channel OConcealed cable transition

OSecurity bolts

OKick plate (aluminium/stainless steel)

Standard O On request

194



2-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



Sound-Insulation Rw,P = 32 dB



O Wet Room (NT)



Models



4.00





Flap 4.00 KL



Flap 4.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 625-2750
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	811-2686 593-2718
٦	Door leaf thickness	50
	Solid door	0
_	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
onfi	Climate category II	•
Ö	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
Ed	Unrebated	0
	Solid wall	0
Walls	Gasblock concrete wall	0
	Gypsum plasterboard wall	О
	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
Frames	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0





2-leaf door

Tender specifications

Information

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door/-Flap Model 14.00 / 14.10 / 14.00 KL / 14.10 KL

Approval No. 3436/3741-2

Optional function

● Sound-Insulation Rw,P = 37 dB

Dimensions

					Е	3F	₹-	W	/io	dt	h	X					. BR-height
																	Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wal
O Solid gypsum wall
O Glazing Type 25 V
2144 1 1 1 5 600

OWooden elements ≥ F 30B O Steel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mm
 without floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls

 Face screw fastening

- Adapter fastening
 Trapezoid anchor fastening
- O Required face width /. . . . mm
- OProjecting frame
- O Sports hall frame
- O Fineline frame O Frame for reconstruction O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm
- O 🕲

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

196

- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
 Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf thickness about 50 mm, rebated meeting stiles with rabbet ledge on push side

- Rebated (F)
- Unrebated (S)

Solid door, climate category II

- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel
- OArched door

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

Optiphon 11/10 (clear glass)

Configuration

- **O**Standard
- OFramed glazing
- **ODIN 68706**
- OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- OIntermediate frieze ≥ 60 mm
- ①...../..... ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

- Rebated VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OSpring hinge FHX 7939/160, 3-d. (only inactive leaf)

- OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated ● VSX 7939/160
- Ovx 7939/160
- OBSW 060-21 VX
- OVIELER ER TR 160 337 E OHEWI B8107.160 VX
- OSpring hinge FHX 7939/160 (only inactive leaf) OAdditional 3rd hinge

Hinge surface Galvanised

Unrebated VSX 7729/160

Unrebated

VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge 0.....

O BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S, 3-d.

O Spring hinge FHX 7729/160, 3-d. (only inactive leaf)

OHEWI B9107.160 VX, 3-d.

- O VX 7729/160
- O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges
- O Spring hinge FHX 7729/160 O HEWI B9107.160 VX
- O Spring hinge FHX 7729/160 (only inactive leaf)
- O Additional 3rd hinge
- Plastic material
- Matt nickel-plated Brass-coloured
- Stainless steel Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm,
- inactive leaf with concealed shot-bolt lock OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped. with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate One-sided lever set
- OKnob-lever-set OPanic pushbar
- OSecurity handle-set

OCode card handle-set

- Handle surface Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer

- according to DIN EN 1154
- GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS

ODORMA ITS 96 / GEZE Boxer GSR Automatic door operator

- according to DIN 18263
- On the active leaf

- On the active and the inactive leaf
 OGEZE TSA 160 NT F-IS
 OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR
- Floor-mounted door closer according to DIN EN 1154
- OGEZE BTS 550 IS OGEZE BTS 550 IS-G
- Additional options for door closers OIntegrated hold-open device
- OFree-swing function on the active leaf OIntegrated hold-open device with smoke detector

Special equipment

- OExternal smoke detector Door closer surface
- Silver-coloured
- Stainless steel Colour-coated
- Retractable bottom seal
- OClimate category III OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
 OMagnetic contact
- OCable channel
- OConcealed cable transition OSecurity bolts OKick plate (aluminium/stainless steel)
- Standard On request



14 N

2-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



● Sound-Insulation Rw,P = 37 dB



Models



14.00



14.10



| Flap . 14.00 KL



Flap 14.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 625-2750			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	811-2686 593-2718			
Din	Door leaf thickness	50			
	Solid door	0			
ion	Door with vision panel	0			
Configuration	Style door (profile beads)	0			
ıfigı	Climate category II	•			
Ö	Climate category III	0			
	Stress group E (4)	•			

Edge	Rebated	0
Ed	Unrebated	0
	Solid wall	0
"	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
Frames	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i

StandardOn request



2-leaf door

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door/-Flap Model 26.00 / 26.10 / 26.00 KL / 26.10 KL

Approval

Approval No. 3421/3353-2

Optional function

● Sound-Insulation Rw,P = 32 dB O Burglar-Protection WK 2

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall (M) O Gasblock concrete wall (M) OGypsum plasterboard wall (L) O Glazing Type 25 V (F)

OWooden elements ≥ F 30B

O Steel elements ≥ F 30A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm

Backbend 15 mmwithout floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

O Sports hall frame

O Steel block frame

– Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion / mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening

O Required face width /. . . . mm

O Projecting frame

O Fineline frame

O Frame for reconstruction O Fixed side panel

O Configuration in stainless steel

O4-sided frame

OSheet thickness 2 mm

OBackbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

O Solid wooden frame, 70/73 mm respectively

70/95 mm

Standard installation

Installation in hallways

Installation in front of wall opening Projecting installation

O Frame for reconstruction

O Fixed side panel

O4-sided frame

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Door leaf thickness about 70 mm, meeting stiles rebated

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)

- Solid door, climate category II
- OSolid door, climate category III

Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

with panel

with coffer

with frame-like and/or fielded additional

wood panelling

OArched door ODoor with vision panel

OSports hall door

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge

OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

ESG 8 mm (clear glass)OVSG 8 mm (clear glass)

ODSG 8 mm

OPyrodur 30-10, 7 mm

OAllstop A3-15 Configuration

OStandard

OFramed glazing
OAccording to DIN 68706
OVision panel, 215/1015 mm

OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel size mm

ODecorative beads on glass

Glazing beads OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

OVeneer

- Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated / Double-rebated Unrebated ● VSX 7939/160, 3-d.

Ovx 7939/160, 3-d.

OBSW 060-21 VX, 3-d.

OVELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

VSX 7729/160, 3-d.

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d.

O Concealed hinges O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated / Double-rebated Unrebated VSX 7939/160 Ovx 7939/160

O VX 7729/160 O BSW 060-22 VX

OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OAdditional 3rd hinge

VSX 7729/160

O Concealed hinges O HEWI B9107.160 VX. O Additional 3rd hinge

OVIELER ER.TB.160.332.S

○◎ Hinge surface

Galvanised Matt nickel-plated Plastic material

Stainless steel

- Brass-coloured Colour-coated

PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
 Panic lock, fixed knob on one side

OPanic lock, lever-lever

OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock

Fixed knob on one side

Lever-lever

Inactive leaf with one-sided lever

OTriple bolting

OCode card lock system

Forend surface

Galvanised

Stainless steel Brass-plated

Handles

9 mm spindle

FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black

OFS-Handles according to DIN 18273

with short backplate

with rosette with rectangular backplate

with long backplate
 One-sided lever set

OKnob-lever-set

OFlush handle

OPanic pushbar OSecurity handle-set

OCode card handle-set

Handle surface

– Aluminium

Stainless steel

Plastic material

Door closer

Overhead door closer according to DIN EN 1154

● GEZE TS 5500 IS / DORMA TS 93 GSR OGEZE TS 4000 IS

OGEZE TS 5000 IS

ODORMA ITS 96 / GEZE Boxer GSR Automatic door operator

according to DIN 18263 On the active leaf

On the active and the inactive leaf
 OGEZE TSA 160 NT F-IS

OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR

Floor-mounted door closer according to DIN EN 1154

OGEZE BTS 550 IS OGEZE BTS 550 IS-G

Additional options for door closers
Ointegrated hold-open device OFree-swing function on the active leaf

OIntegrated hold-open device with smoke detector OExternal smoke detector

Door closer surface

Silver-coloured Stainless steel

Colour-coated

Special equipment

 Retractable bottom seal OElectrical strike

ODoor viewer OBlock lock OBolt contact

OMagnetic contact OCable channel

OConcealed cable transition OSecurity bolts

OKick plate (aluminium/stainless steel)

Standard On request



Schörghuber

26 N

2-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2



Models



26.00



26.10



Flap 26.00 KL



Flap 26.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 1718-3468
Din	Door leaf thickness	70
	Solid door	0
<u>_</u>	Door with vision panel	О
Configuration	Style door (coffer, panel, profile beads)	O
onfi	Climate category II	•
Ŏ	Climate category III	О
	Stress group E (4)	•

Super size: On request with a door leaf width of up to 2000 mm!



For additional technical information please see appendix, indicated with i



σ.	Rebated	0
Edge	Unrebated with jamb rebate	О
ш	Double-rebated	0
	Solid wall	О
S	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
	Steel frame	О
	Sports hall frame	0
Frames	Wooden wrap-around frame	О
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0





26 N GLT

2-leaf door, reversed

Tender specifications

RS-2 FORM-Smoke-Protection-Door Model 26.00 GLT / 26.10 GLT

Approval No. 3421/3353-2

Optional function

● Sound-Insulation Rw,P = 32 dB

S. BR-width x BR-height 🕲 Throat opening

O Solid wall (M)O Gasblock concrete wall (M)O Gypsum plasterboard wall (L) (F) OF 30-Glazing Type 25 V OWooden elements ≥ F 30B

OSteel elements ≥ F 30A Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel

Door leaf

Door leaf thickness about 70 mm, meeting stiles rebated

- Unrebated with jamb rebate (S)
- Solid door, climate category II
- OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)VSG 8 mm (clear glass)
- ODSG 8 mm OPyrodur 30-10, 7 mm
- Configuration
- OStandard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VSX 7729/160
- Ovx 7729/160
- OVIELER ER.TB.160.332.S
- OConcealed hinges OHEWI B9107.160 VX
- OAdditional 3rd hinge
- Hinge surface

- Galvanised
- Matt nickel-plated Brass-coloured
- Plastic material
- Stainless steel
- Colour-coated

PZ-shot-bolt lock on both leafs

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-one-sided lever set according to DIN 18273 on both leafs
- with long backplate
- OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer according to DIN EN 1154

• GEZE TS 5500 / DORMA TS 93 • GEZE TS 4000

- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closer according to DIN EN 1154

- OGEZE BTS 550 F OGEZE BTS 550 F-G
- ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface - Silver-coloured

- Stainless steel
- Colour-coated

Special equipment

- ODoor viewer
- ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function)
- OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



26 N GLT

2-leaf door, reversed

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



• Sound-Insulation Rw,P = 32 dB



Models



26.00 GLT



26.10 GLT

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1461-2586 1793-2543
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1311-2436 1718-2468
۵	Door leaf thickness	70
	Solid door	0
_	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
jjuc	Climate category II	•
Ŏ	Climate category III	0
	Stress group E (4)	•

Edge	Unrebated with jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
8	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
Frame	Solid wooden frame	•



Schörghuber

For additional technical information please see appendix, indicated with

Information





2-leaf door

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door/-Flap Model 6.00 / 6.10 / 6.00 KL / 6.10 KL

Approval

Approval No. 3613/3350-2

Optional function

- O Sound-Insulation Rw,P = 45 dB
 Sound-Insulation Rw,P = 42 dB
 O Sound-Insulation Rw,P = 37 dB

- OBurglar-Protection WK 2

Dimensions

\otimes					Е	3F	₹-	W	/io	dt	h	Х					. BR-height
\otimes																	Throat opening

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	`(L)
O Glazing Type 25 V	(F
O.Wooden elements > F 30B	

- O Steel elements ≥ F 30A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grev (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mmFloor recess 30 mm Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

- O Steel block frame

 Standard installation

 Installation in hallway
- Installation in hallways
- O Round-shaped frame
- O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
 O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width /. . . . mm
- OProjecting frame
- O Sports hall frame
- O Frame for reconstruction O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm respectively
- 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation O Frame for reconstruction
- O Fixed side panel
- O4-sided frame
- Door leaf thickness about 70 mm, meeting stiles

202

- double-rebated Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)

- Solid door, climate category II
- Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- Arched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Phonstop 31/45 GH (clear glass)
- OPhonstop 31/45 GH (patterned glass 504)
- OAllstop A1-15 GH

Configuration

- **O**Standard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500, 650 mm
- OAs multiple glazed door
- OSpecial vision panel size . . ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/DD-coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

- Three-roll-hinges, 2 pieces, 160 mm,
- hinge base 3D adjustable
- Rebated / Double-rebated Unrebated for Rw,P = 42 dB vsx 7729/1
- VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB
- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 vx, 3-d.

- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

- Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated / Double-rebated Unrebated
- for Rw,P = 42 dB
- VX 7939/160 FD OBSW 060-21 VX FD for Rw,P = 37 dB
- VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge ⊙®
- Hinge surface Galvanised
- Matt nickel-plated Stainless steel
- Plastic material - Brass-coloured Colour-coated

● VSX 7729/160, 3-d.

O BSW 060-22 VX. 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX. 3-d.

O VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge

● VSX 7729/160

O BSW 060-22 VX

O VIELER ER.TB.160.332.S

0 №

O Concealed hinges
O HEWI B9107.160 VX

O Additional 3rd hinge

O VX 7729/160

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
 Panic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
 One-sided lever set
- OKnob-lever-set
- OPanic pushbar
- OSecurity handle-set OCode card handle-set

Handle surface

- Aluminium
- Stainless steel - Plastic material
- O©

Door closer Overhead door closer

- according to DIN EN 1154
- GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operator according to DIN 18263

- On the active leaf
- On the active and the inactive leaf OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR
- Floor-mounted door closer
- according to DIN EN 1154 OGEZE BTS 550 IS
- OGEZE BTS 550 IS-G
- Additional options for door closers OIntegrated hold-open device OFree-swing function on the active leaf

OIntegrated hold-open device with smoke detector OExternal smoke detector

- Door closer surface
- Silver-coloured
- Stainless steel Colour-coated
- Special equipment Retractable bottom seal
- OClimate category III OElectrical strike
- ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact
 OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Standard On request



6 N

2-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



- \odot Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB



O Burglar-Protection WK 2



Models



6.00



Flap 6.00 KL



Flap 6.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 1750-3000
Oimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 1718-2968
Dim	Door leaf thickness	70
	Solid door	0
on	Door with vision panel	0
ırati	Style door (profile beads)	0
ıfigu	Climate category II	•
Configuration	Climate category III	0
	Stress group E (4)	•

4)	Rebated	0
Edge	Unrebated with jamb rebate	0
	Double-rebated	0
	Solid wall	0
S	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
Frames	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i







2-leaf door, reversed

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 6.00 GLT / 6.10 GLT

Approval No. 3613/3350-2

Optional function

● Sound-Insulation Rw,P = 37 dB

Dimensions

BR-height 🕲 Throat opening

walls	
O Solid wall	(N
O Gasblock concrete wall	(N
OGypsum plasterboard wall	(L
OF 30-Glazing Type 25 V	(F
OWooden elements ≥ F 30B	
O Steel elements ≥ F 30A	

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Solid wooden frame, 70/73 mm
- Standard installation Installation in hallways
- Installation in front of wall opening
- Projecting installationFixed side panel

Door leaf

Door leaf thickness about 70 mm, meeting stiles rebated

- Unrebated with jamb rebate (S)
- Solid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Phonstop 31/45 GH (clear glass)
 Phonstop 31/45 GH (patterned glass 504)

Configuration

- OStandard
- OFramed glazing

- OAccording to DIN 68706

 OVision panel, 215/1015 mm

 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VSX 7729/160
- Ovx 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OConcealed hinges
 OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Matt nickel-plated
- Plastic material
- Stainless steel
- Brass-coloured

PZ-shot-bolt lock on both leafs

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-one-sided lever set according to DIN 18273 on both leafs
- with long backplate
- OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer according to DIN EN 1154

• GEZE TS 5500 / DORMA TS 93 • GEZE TS 4000

- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closer according to DIN EN 1154

- OGEZE BTS 550 F OGEZE BTS 550 F-G
- ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- ODoor viewer
- ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function)
- OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



6 N GLT

2-leaf door, reversed

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



Sound-Insulation Rw,P = 37 dB



Models





Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1461-2586 1793-2543
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1311-2436 1718-2468
٦	Door leaf thickness	70
	Solid door	О
ion	Door with vision panel	0
urat	Style door (profile beads)	О
Configuration	Climate category II	•
Ş	Climate category III	0
	Stress group E (4)	•

Edge	Unrebated with jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
8	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
Frame	Solid wooden frame	•



Information

For additional technical information please see appendix, indicated with i



Standard On request



2-leaf door

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 50-2.00

Approval

Approval No. 3613/3350-2

Optional function

Sound-Insulation Rw,P = 50 dB
 O Sound-Insulation Rw,P = 48 dB

Dimensions

ᅠ	. BR-width x	BR-height
◎		Throat opening

walls	
O Solid wall	(M)
O Gasblock concrete wall	(M)
OGvosum plasterboard wall	(1)

O Glazing Type 25 V OWooden elements ≥ F 30B

O Steel elements ≥ F 30A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

(F)

Backbend 9 mm - Floor recess 30 mm

Backbend 15 mmwithout floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

O Steel block frame

Standard installation

Installation in hallwaysRound-shaped frame

O Face expansion.

. /. mm O Decorative rebated frame, rebate depth mm

O Expansion joint frame

OFrame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening

O Required face width /. . . . mm

O Projecting frame

O Sports hall frame

OFrame for reconstruction

O Configuration in stainless steel

Q4-sided frame

O Sheet thickness 2 mm

OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/75 mm O Solid wooden frame, 70/73 mm respectively 70/95 mm

Standard installation

Installation in hallways

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O4-sided frame

Ò.....

Door leaf thickness about 91 mm, meeting stiles double-rebated

- Rebated (F)
- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)

- OStyle door

 with profile beads

 with frame-like and/or fielded additional wood panelling

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OPU-edge

OVeneer edge

OPlastic material edge

OColour-coated edge

Door leaf / Wooden frame

- Transparently coated

Stained/DD-coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable

Double-rebated

● VX7939/160-4 FD OBSW090-745/160 DF, VX

OAdditional 3rd hinge OAdditional 4th hinge

Wooden frames

O Additional 4th hinge Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D

Unrebated

VX7729/160-4

O BSW090-747/160, VX

O Additional 3rd hinge

adjustable (VHX) Double-rebated

● VX7939/160-4 FD

OBSW090-745/160 DF, VX OAdditional 3rd hinge OAdditional 4th hinge O◎ . .

Unrebated O VX7729/160-4 O BSW090-747/160, VX O Additional 3rd hinge

O Additional 4th hinge

Hinge surface

Galvanised

Matt nickel-plated Stainless steel

Brass-coloured Colour-coated

● PZ-lock according to DIN 18250, backset 80 mm inactive leaf with concealed shot-bolt lock
OPanic lock, fixed knob on one side

OPanic lock, lever-lever

OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock

Fixed knob on one side

Lever-lever

Inactive leaf with one-sided lever

OTriple bolting

OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

9 mm spindle

● FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black

OFS-Handles according to DIN 18273

with short backplate

with rosette

with rectangular backplate

with long backplate
 One-sided lever set

OKnob-lever-set OPanic pushbar

OSecurity handle-set

OCode card handle-set

Handle surface Aluminium

Stainless steel Plastic material

Door closer

Overhead door closer according to DIN EN 1154

• GEZE TS 5500 IS / DORMA TS 93 GSR

OGEZE TS 4000 IS OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operator according to DIN 18263

On the active leaf

On the active earl
OGEZE TSA 160 NT F-IS
OGEZE Slimdrive EMD F-IS
ODORMA ED 100 / 200 / 250 ESR Floor-mounted door closer

according to DIN EN 1154 OGEZE BTS 550 IS OGEZE BTS 550 IS-G

Additional options for door closers

OIntegrated hold-open device

OFree-swing function on the active leaf OIntegrated hold-open device with smoke detector

OExternal smoke detector Door closer surface

Silver-coloured Stainless steel

Colour-coated

Special equipment

• 2 retractable bottom seals OClimate category III

OElectrical strike

ODoor viewer

OBlock lock OBolt contact

OMagnetic contact OCable channel

OConcealed cable transition OSecurity bolts

OKick plate (aluminium/stainless steel)

Standard On request Please fill in



50-2

2-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



Sound-Insulation Rw,P = 50 dBSound-Insulation Rw,P = 48 dB



O Burglar-Protection WK 2



Models



50-2.00

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1500-3000 1750-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1406-2906 1706-2953
Dir	Door leaf thickness	91
_	Solid door	0
Configuration	Style door (profile beads)	0
gura	Climate category II	•
onfi	Climate category III	0
Ö	Stress group E (4)	•

6	Rebated	0
Edge	Double-rebated	•
ш	with double jamb rebate	0
	Solid wall	0
S	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Fr	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



Standard On request



2-leaf door

Tender specifications

 $S_m - C5$

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 20.00 / 20.10

Approval

Approval No. 3305/8419

Optional function

- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

e	D.					Е	3F	₹-	W	ίc	dt	h	Х					. BR-height
e	D																	Throat opening

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
O Glazing Type 25 V
O Wooden elements ≥ F 30B

OSteel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Floor recess 30 mm Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- O Round-shaped frame
- O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
 O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width /. . . . mm
- O Projecting frame
- O Frame for reconstruction O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm
- O Solid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf thickness about 110 mm, meeting stiles double-rebated

- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Concealed solid wood edge band, 3-sided
- OColour-coated edge

Vision panel

Type of glass

Phonstop 31/45 GH (clear glass)
 OPhonstop 31/45 GH (patterned glass 504)

Configuration

- OStandard
- OFramed glazing
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0.8 mm
- OOn site coating/undercoating foil OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

• VX 7729/160, 3-d. • BSW 060-22 VX, 3-d.

O Additional 3rd hinge

• VX 7729/160 O BSW 060-22 VX

O Concealed hinges

O HEWI B9107.160 VX

O Additional 3rd hinge

O VIELER ER.TB.160.332.S

O 🕲

O VIELER ER.TB.160.332.S, 3-d.

O №

O Concealed hinges
O HEWI B9107.160 VX, 3-d.

hinge base 3D adjustable

Rebated / Double-rebated Unrebated for Rw,P = 42 dB • vx 7729/16

- Ovx 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB/32 dB ● VX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- OBSW 060-21 VX FD for Rw,P = 37 dB/32 dB • vx 7939/160
- OBSW 060-21 VX
- OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OAdditional 3rd hinge
- Hinge surface
- Plastic material Galvanised Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
 Panic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
 One-sided lever set
- OKnob-lever-set
- OFlush handle
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set Handle surface

 – Aluminium
- Stainless steel

Plastic material

Door closer Overhead door closer

according to DIN EN 1154

- GEZE TS 5500 IS / DORMA TS 93 GSR OGEZE TS 4000 IS
- OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operator

- according to DIN 18263
- On the active leaf - On the active and the inactive leaf OGEZE TSA 160 NT F-IS

- OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR

Floor-mounted door closer

- according to DIN EN 1154
- OGEZE BTS 550 IS OGEZE BTS 550 IS-G

- Additional options for door closers
 Ointegrated hold-open device
- OFree-swing function on the active leaf OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- 2 retractable bottom seals
- OElectrical strike
- ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition OSecurity bolts OKick plate (aluminium/stainless steel)



20 N

2-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



20.00



20.10

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1375-3000 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1281-2906 1703-3453
٦	Door leaf thickness	110
	Solid door	О
tion	Door with vision panel	О
Configuration	Style door (coffer, panel, profile beads)	O
Con	Climate category II	•
	Stress group E (4)	•

Edge	Double-rebated	0
Ed	with double jamb rebate	0
	Solid wall	0
Walls	Gasblock concrete wall	0
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
န္တ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i





2-leaf door

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door/-Flap Model 27.10 / 27.10 KL

Approval

Approval No. 3433/3433-2

Optional function

- O Sound-Insulation Rw,P = 42 dB
- OSound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

BR-width >	x BR-height
	Throat opening

Walls
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
O Glazing Type 25 V
OMender elements - FOOD

OSteel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 15 mm - without floor recess - Backbend 9 mm - Floor recess 30 mm

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm O Steel block frame

Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion / mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening

O Projecting frame O Fineline frame

O Sports hall frame

O Required face width /. . . . mm

OFrame for reconstruction O Fixed side panel

O Configuration in stainless steel

O 4-sided frame

O Sheet thickness 2 mm

OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm respectively 70/95 mm

Standard installation

Installation in hallways

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel O4-sided frame

Frame width 73/95 mm, meeting stiles rebated

Rebated (F)

Unrebated with jamb rebate (S)

Solid wood framed door, climate category II

Safety glass

OSolid wood framed style door

with panel

with coffer

with panel version II

OSolid wood framed door with round arch

O.....

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OVSG 8 mm (clear glass)

ODSG 7 mm

OPyrodur 30-10, 7 mm

OPhonstop 31/45 GH (clear glass)

Configuration

OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm door rebate dimension over 1100 mm with bottom frieze 195 mm

Owithout middle frieze, minimum frame widths side/top/bottom ≥ 105 mm

door rebate dimension over 1100 mm with bottom frieze 195 mm,

on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm ©...../..../ ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

Surfaces

Door leaf / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

Untreated

OOn site coating/undercoating foil

OColour-coated

O.....

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable Rebated Unrebated

Three-roll-hinges, 2 pieces, 160 mm,

VSX 7939/160, 3-d.

OVX 7939/160, 3-d.

OBSW 060-21 VX, 3-d.

OVIELER ER.TB.160.337.F. 3-d. OHEWI B8107,160 VX, 3-d. OAdditional 3rd hinge

0%

Wooden frames

Rebated

● VSX 7939/160 ○ VX 7939/160

OBSW 060-21 VX

VSX 7729/160, 3-d. O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S. 3-d. O Concealed hinges O HEWI B9107.160 VX, 3-d.

O Additional 3rd hinge

hinge base 3D adjustable (VHX) Unrebated

● VSX 7729/160 ○ VX 7729/160

O BSW 060-22 VX O VIELER ER.TB.160.332.S

O Concealed hinges O HEWI B9107.160 VX

O Additional 3rd hinge

OAdditional 3rd hinge Hinge surface

Galvanised Matt nickel-plated

OVIELER ER.TB.160.337.F

OHEWI B8107.160 VX

- Plastic material - Brass-coloured

Stainless steel Colour-coated

PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock

ONarrow style lock

OPanic lock, fixed knob on one side

OPanic lock, lever-lever

OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock

Fixed knob on one side

Lever-lever

Inactive leaf with one-sided lever

OTriple bolting

OCode card lock system

Forend surface

Galvanised

Stainless steel

Brass-plated

9 mm spindle

 FS-handles, plastic material, round-shaped. with short backplate, RAL 9005 black

OFS-Handles according to DIN 18273

- with short backplate

with rosette

with rectangular backplatewith long backplateOone-sided lever set

OKnob-lever-set

OPanic pushbar

OSecurity handle-set OCode card handle-set

Handle surface

– Aluminium

Stainless steel

Plastic material

Door closer

Overhead door closer

according to DIN EN 1154 ● GEZE TS 5500 IS / DORMA TS 93 GSR OGEZE TS 4000 IS

OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operator

according to DIN 18263

on the active leaf
OGEZE TSA 160 NT F-IS
OGEZE Slimdrive EMD F-IS
ODORMA ED 100 / 200 / 250 ESR

Floor-mounted door closer

according to DIN EN 1154

OGEZE BTS 550 IS

OGEZE BTS 550 IS-G

Additional options for door closers

OIntegrated hold-open device
OFree-swing function on the active leaf OIntegrated hold-open device with smoke detector

OExternal smoke detector

Door closer surface

Silver-coloured

Stainless steel Colour-coated

Special equipment

Retractable bottom seal

OElectrical strike OBlock lock

OBolt contact

OMagnetic contact OCable channel

OConcealed cable transition OSecurity bolts

OKick plate (aluminium/stainless steel)

Standard On request

210

Please fill in



27 N

2-leaf door

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models







Flap 27.10 KL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 1750-3750
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 1718-3718
	Door leaf thickness	73/95
tion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	O
Cor	Climate category II	•
Edge	Rebated	0
Ed	Unrebated with jamb rebate	0

	Solid wall	0
SIII	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
F	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



 Standard 	On request



27 N Slimline

2-leaf door

Tender specifications

 $S_m - C5$

Information

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 27.10 Slimline

Approval

Applied for approval

Optional function

O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall	(1)
O Gasblock concrete wall	(N
O Gypsum plasterboard wall	(
OF 30-Glazing Type 25 V	(
O Wooden elements > F 30B	

Wooden frames

OSteel elements ≥ F 30A

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Solid wooden frame, 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installationFixed side panel
- O4-sided frame

Frame width 73 mm, meeting stiles rebated

- Unrebated (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

- ESG 8 mm (clear glass) ESG 10 mm (clear glass) OVSG 10 mm (clear glass)

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 30/30/0 mm

- on request with bar ≥ 55 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm
- OOn middle frieze, side ≥ 75 mm
- for bottom frieze widths = 0 mm, stainless steel guard rail required
- ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated
- O.....

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Unrebated
- Ovx 7729/160 OBSW 060-22 VX
- OVIELER ER.TB.160.332.S OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Plastic material Brass-coloured
- Matt nickel-plated Stainless steel
- Colour-coated

- Narrow style lock
- OPZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate
- with long backplate
- One-sided lever set
- OKnob-lever-set
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer according to DIN EN 1154

OGEZE TŠ 5500 IS / DORMA TS 93 GSR

OGEZE TS 4000 IS OGEZE TS 5000 IS

ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operator

according to DIN 18263

- On the active leaf
- On the active and the inactive leaf
 GEZE TSA 160 NT F-IS
 GEZE Slimdrive EMD F-IS
- ODORMA ED 100 / 200 / 250 ESR

Floor-mounted door closer

according to DIN EN 1154

• GEZE BTS 550 IS-G

Additional options for door closers Ointegrated hold-open device

OFree-swing function on the active leaf

OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- Retractable bottom seal
- OElectrical strike
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel
 OConcealed cable transition
- OSecurity bolts



27 N Slimline

2-leaf door

Tender specifications

 S_m-C5

RS

Main function

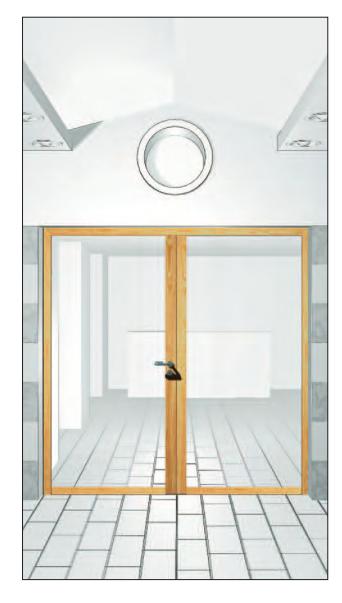


Smoke-Protection

Optional function



O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB



Models



25.10 SL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1375-2625 1750-2625
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1148-2398 1699-2449
Din	Door leaf thickness	73
ion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	0
Cor	Climate category II	•
Edge	Unrebated	•

Walls	Solid wall	0
	Gasblock concrete wall	0
N N	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
-rames	Solid wooden frame	0
Frar	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



Standard O On request



27 N GLT

2-leaf door, reversed

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 27.10 GLT

Approval

Approval No. 3433/3433-2

Optional function

O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
OF 30-Glazing Type 25 V	(F)
O Wooden elements ≥ F 30B	

Wooden frames

OSteel elements ≥ F 30A

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- Solid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel

Door leaf

Frame width 73/95 mm, meeting stiles rebated

- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

- ESG 8 mm (clear glass)VSG 8 mm (clear glass)
- ODSG 7 mm
- OPyrodur 30-10, 7 mm
- OPhonstop 31/45 GH (clear glass)

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm door rebate dimension over 1100 mm with bottom frieze 195 mm
- Owithout middle frieze, minimum frame widths
 - side/top/bottom \geq 105 mm door rebate dimension over 1100 mm with bottom frieze 195 mm,
- on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm
- ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

Door leaf / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated
- O.....

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VSX 7729/160
- Ovx 7729/160 OBSW 060-22 vx
- OVIELER ER.TB.160.332.S
- OConcealed hinges
 OHEWI B9107.160 VX
- OAdditional 3rd hinge
- O ®

Hinge surface

- Galvanised
 - Plastic material Matt nickel-plated - Brass-coloured
- Stainless steel

PZ-shot-bolt lock on both leafs

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-one-sided lever set according to DIN 18273 on both leafs
- with long backplate
- OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- O[©].....

Door closer

Overhead door closer according to DIN EN 1154

- GEZE TS 5500 / DORMA TS 93 GEZE TS 4000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closer according to DIN EN 1154

OGEZE BTS 550 F

Additional options for door closers Ointegrated hold-open device

- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector Door closer surface

Silver-coloured

- Stainless steel Colour-coated

Special equipment

- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

27 N GLT

2-leaf door, reversed

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



27.10 GLT



27 10 GLT

Performance profile

s (mm)	Basic dimension Basic dimension	BR-width BR-height	1461-2586 1793-2543
Dimensions (mm)	Clear passage Clear passage	LD-width LD-height	1311-2436 1718-2468
₽	Door leaf thickness		73/95
ion	Solid wood framed door		0
Configuration	Solid wood framed style door (coffer, panel, panel version II)		О
Cor	Climate category I	I	•

Edge	Unrebated with jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
8	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frame	Solid wooden frame	•

Information

For additional technical information please see appendix, indicated with i





Smoke-Protection-Doors



2-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with

RS-2 FORM-Smoke-Protection-Door Model 4.01 / 4.11 / 4.02 / 4.12

Approval No. 3436/3741-2

Optional function

● Sound-Insulation Rw,P = 32 dB

O Solid wall OGasblock concrete wall (M) Gypsum plasterboard wall (L) (F) O Glazing Type 25 V O Wooden elements ≥ F 30B O Steel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall: - Backbend 9 mm Gypsum plasterboard wall: - Backbend 15 mm

- Floor recess 30 mm

- without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion / mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
 O Sports hall frame
- O Fineline frame
- O Required face width /. . . . mm
- OFrame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O 4-sided frame
- O Sheet thickness 2 mm
- O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm

 Standard installation
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel O4-sided frame
- O 🕲

Door leaf thickness about 50 mm,

rebated meeting stiles with rabbet ledge on push side Rebated (F)

- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided 216

- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OVSG 8 mm (clear glass)
- ODSG 7 mm
- OPyrodur 30-10, 7 mm

Configuration

- OFramed glazing

- OAccording to DIN 68706 OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

- OTop panel
- Counter-rebated with rabbet ledge
- with transom
- OFanlight with transom and Safety glass same as vision panel

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Rebated
- VSX 7939/160, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- O Spring hinge FHX 7939/160, 3-d. (only inactive leaf)
- OAdditional 3rd hinge
- Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)
- Rebated ● VSX 7939/160
- Ovx 7939/160

O 🕲

- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX
- Ospring hinge FHX 7939/160 (only inactive leaf) OAdditional 3rd hinge
- Unrebated

Unrebated

● VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge

O BSW 060-22 VX. 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O Spring hinge FHX 7729/160, 3-d.

O HEWI B9107.160 VX, 3-d.

- VSX 7729/160 O VX 7729/160
- O BSW 060-22 VX
- O VIELER ER.TB.160.332.S O Concealed hinges
- O HEWI B9107.160 VX. O Spring hinge FHX 7729/160
- (only inactive leaf) O Additional 3rd hinge

- Hinge surface
- Galvanised - Plastic material Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette with rectangular backplate
- with long backplate
 One-sided lever set
- OKnob-lever-set OPanic pushbar
- OSecurity handle-set

OCode card handle-set

- Handle surface
- Aluminium
- Stainless steel Plastic material

Door closer

O⊚

- Overhead door closer
- according to DIN EN 1154
- GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS

OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR Automatic door operator

- according to DIN 18263
- on the active leaf
- OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR Floor-mounted door closer
- according to DIN EN 1154 OGEZE BTS 550 IS
- OGEZE BTS 550 IS-G
- Additional options for door closers
- OIntegrated hold-open device OFree-swing function on the active leaf
 OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface
- Silver-coloured Stainless steel
- Colour-coated
- Special equipment

Retractable bottom seal

- OClimate category III OElectrical strike
- ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Standard
 - On request
- Please fill in



4 N

2-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

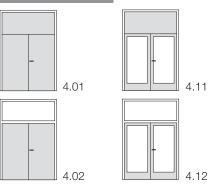
Optional function



Sound-Insulation Rw,P = 32 dB



Models



Performance profile

Basic dimension BR-width Basic dimension BR-height	875-2750 2000-3500			
Clear passage LD-width Clear passage LD-height Clear passage (door) height	811-2686 1968-3468 1718-2718			
Door leaf thickness	50			
Solid door	0			
Door with vision panel	0			
Style door (coffer, panel, profile beads)	О			
Climate category II	•			
Climate category III	0			
Stress group E (4)	•			
	Basic dimension BR-height Clear passage LD-width Clear passage LD-height Clear passage (door) height Door leaf thickness Solid door Door with vision panel Style door (coffer, panel, profile beads) Climate category II Climate category III			

4	Delected	0
Edge	Rebated	0
Ec	Unrebated	0
	Solid wall	0
s	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
Sé	Wooden wrap-around frame	О
Frames	Wooden block frame	0
	Solid wooden frame	О
	4-sided frame	0



Information





2-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 26.01 / 26.11 / 26.02 / 26.12

Approval

Approval No. 3421/3353-2

Optional function

●Sound-Insulation Rw,P = 32 dB OBurglar-Protection WK 2

Dimensions

														Tł	٦r	oa	ıt	Ċ	p	en	in	g	
VV	r																						

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
O Glazing Type 25 V
OWooden elements > F 30B

Steel frames

OSteel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm

- Backbend 15 mm - without floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

- Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion.

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening

O Sports hall frame

O Projecting frame

O Fineline frame

O Required face width /. . . . mm

O Frame for reconstruction

O Fixed side panel

O Configuration in stainless steel

O4-sided frame

OSheet thickness 2 mm

OBackbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

218

O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm respectively

70/95 mm Standard installation

Installation in hallways

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel

O4-sided frame

Door leaf

Door leaf thickness about 70 mm, meeting stiles rebated

Rebated (F)

Unrebated with jamb rebate (S)

Double-rebated (D)

Solid door, climate category II

OSolid door, climate category III

Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

with panel

with coffer

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge

OVeneer edge
OPlastic material edge

OColour-coated edge

O.....

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OVSG 8 mm (clear glass) ODSG 8 mm

OPyrodur 30-10, 7 mm OAllstop A3-15

Configuration **O**Standard

OFramed glazing

OAccording to DIN 68706 OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel size mm

ODecorative beads on glass

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Top panel

OTop panel

Counter-rebated with single rebate

OFanlight with transom and

Safety glass same as vision panel

Door leaf / Top panel / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated / Double-rebated Unrebated

VSX 7939/160, 3-d. Ovx 7939/160, 3-d.

OBSW 060-21 VX, 3-d.

OVIELER ER.TB.160.337.F. 3-d. OHEWI B8107.160 VX, 3-d.

OAdditional 3rd hinge

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated / Double-rebated Unrebated VSX 7939/160 Ovx 7939/160

OBSW 060-21 VX OVIELER ER.TB.160.337.E OHEWI B8107.160 VX OAdditional 3rd hinge

○◎

VSX 7729/160 O VX 7729/160

VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge

O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S. 3-d.

O 🕲

O HEWI B9107,160 VX, 3-d.

O BSW 060-22 VX OVIELER ER.TB.160.332.S O Concealed hinges

O HEWI B9107.160 VX O Additional 3rd hinge

Hinge surface

Galvanised Plastic material Matt nickel-plated - Brass-coloured

Stainless steel - Colour-coated

PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock

OPanic lock, fixed knob on one side

OPanic lock, lever-lever

OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock

Fixed knob on one side

Lever-lever

Inactive leaf with one-sided lever

OTriple bolting

OCode card lock system

Forend surface

Galvanised

Stainless steel

Brass-plated

Handles

9 mm spindle • FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black

OFS-Handles according to DIN 18273

with short backplate with rosette

with rectangular backplate

with long backplate
 One-sided lever set

OKnob-lever-set OPanic pushbar

OSecurity handle-set

OCode card handle-set

Handle surface - Aluminium

Stainless steel

Plastic material

Door closer

Overhead door closer

according to DIN EN 1154

• GEZE TS 5500 IS / DORMA TS 93 GSR

OGEZE TS 4000 IS

OGEZE TS 5000 IS ODORMA ITS 96 / GEZE Boxer GSR

Automatic door operator

according to DIN 18263

On the active leaf

On the active and the inactive leaf OGEZE TSA 160 NT F-IS OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR

Floor-mounted door closer according to DIN EN 1154

OGEZE BTS 550 IS OGEZE BTS 550 IS-G

Additional options for door closers OIntegrated hold-open device

OFree-swing function on the active leaf OIntegrated hold-open device with smoke detector

OExternal smoke detector Door closer surface

Silver-coloured

 Stainless steel Colour-coated

Special equipment Retractable bottom seal

OElectrical strike ODoor viewer

OBlock lock OBolt contact

OMagnetic contact
OCable channel

OConcealed cable transition OSecurity bolts

OKick plate (aluminium/stainless steel)

On request

Please fill in

Standard



26 N

2-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



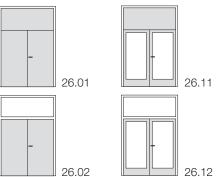
Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2



Models





(mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 2000-4000		
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	936-2936 1968-3968 1718-3468		
Dir	Door leaf thickness	70		
	Solid door	0		
Ē	Door with vision panel	0		
Configuration	Style door (coffer, panel, profile beads)	O		
onfi	Climate category II	•		
Ŏ	Climate category III	0		
	Stress group E (4)	•		

Super size: On request with a door leaf width of up to 2000 mm!



For additional technical information please see appendix, indicated with i



ш		
ш	Double-rebated	О
	Solid wall	0
Walls	Gasblock concrete wall	0
	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Solid wooden frame	О
	4-sided frame	0

Unrebated with jamb rebate

Rebated





26 N GLT

2-leaf door, reversed, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 26.02 GLT / 26.12 GLT

Approval

Approval No. 3421/3353-2

Optional function

● Sound-Insulation Rw,P = 32 dB

Dimensions

..... BR-width x BR-height 🕲 Throat opening

Walls

O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L) (F) OF 30-Glazing Type 25 V OWooden elements ≥ F 30B O Steel elements ≥ F 30A

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)
O Solid wooden frame, 70/73 mm

- Standard installation Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel

Door leaf

Door leaf thickness about 70 mm, meeting stiles rebated

- Unrebated with jamb rebate (S)
- Solid door, climate category
- OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided

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- OPU-edge
- OVeneer edge
 OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)VSG 8 mm (clear glass)
- ODSG 8 mm
- OPyrodur 30-10, 7 mm

Configuration

- OStandard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
 - OAluminium untreated/anodized
 - OStainless steel (porthole Ø 350 mm)

OFanlight with transom and Smoke-Protection-Glass

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Unrebated ● VSX 7729/160
- Ovx 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OConcealed hinges OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated - Stainless steel
- Brass-coloured Colour-coated

PZ-shot-bolt lock on both leafs

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-one-sided lever set according to DIN 18273 on both leafs
- with long backplate
- OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer according to DIN EN 1154

• GEZE TS 5500 / DORMA TS 93 • GEZE TS 4000

- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closer according to DIN EN 1154

- OGEZE BTS 550 F OGEZE BTS 550 F-G
- ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector Door closer surface

- Silver-coloured

- Stainless steel
- Colour-coated

Special equipment

ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)

- ODoor viewer
- OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



26 N GLT

2-leaf door, reversed, with top panel

Performance overview

 S_m -C5

RS

Main function

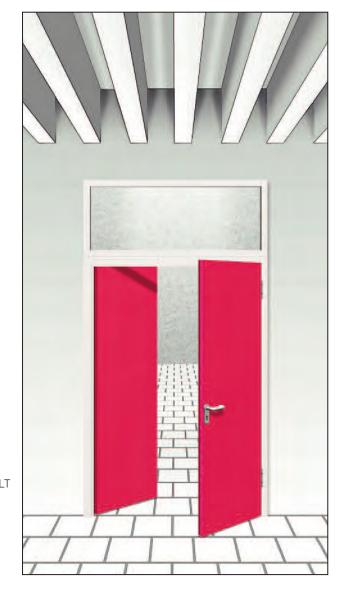


Smoke-Protection

Optional function



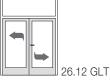
• Sound-Insulation Rw,P = 32 dB



Models



26.02 GLT



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1461-2586 1793-3543
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1311-2436 1968-3468 1718-2468
Ē	Door leaf thickness	70
	Solid door	0
_	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
onfi	Climate category II	•
Q	Climate category III	0
	Stress group E (4)	•

Edge	Unrebated with jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
Frame	Solid wooden frame	•







2-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 6.01 / 6.11 / 6.02 / 6.12

Approval No. 3613/3350-2

Optional function

- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- OBurglar-Protection WK 2

Dimensions

ᅠ	BR-width x	BR-height
ᅠ		Throat opening

- O Solid wall (M) (L) (F) O Gasblock concrete wall O Gypsum plasterboard wall O Glazing Type 25 V
- OWooden elements ≥ F 30B OSteel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall: Backbend 9 mm - Backbend 15 mm Backbenu 9 IIIII.Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation Installation in hallways
- O Round-shaped frame O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls

 Adapter fastening

 Trapezoid anchor fastening

- O Projecting frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- Q4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
 OWooden block frame, architrave 45/60 mm
 OSolid wooden frame, 70/73 mm respectively
- 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installationFrame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf thickness about 70 mm, meeting stiles double-rebated

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- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II Stress group E (4)

- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beadswith panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- **Edges** Solid wood batten white/red wood 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Phonstop 31/45 GH (clear glass)
 OPhonstop 31/45 GH (patterned glass 504)
- OAllstop A3-15
- Configuration
- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500, 650 mm
- OAs multiple glazed door OSpecial vision panel size . . ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
 OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated and double-rebated
- with transom
- OFanlight with transom and Phonstop-Glazing 31/45 GH

Surfaces

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

OVSX 7729/160, 3-d.

O VX 7729/160, 3-d.

● VSX 7729/160

O BSW 060-22 VX

O VIELER ER.TB.160.332.S

O Concealed hinges
O HEWI B9107.160 VX

Ovx 7729/160

O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S, 3-d.

O Concealed hinges
O HEWI B9107.160 VX, 3-d.

O Additional 3rd hinge

- Rebated / Double-rebated Unrebated
- for Rw,P = 42 dB
- VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d.
- for Rw,P = 37 dB
- VSX 7939/160, 3-d. OVX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
 OS.....

 Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)
- Rebated / Double-rebated | Unrebated | for Rw,P = 42 dB | vsx 7729/10 | vx 7739/160 FD | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | vx 7729/160 | OBSW 060-21 VX FD
- for Rw,P = 37 dB vsx 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB. 160.335.F

O[®]

- OHEWI B8107.160 VX OAdditional 3rd hinge
- O Additional 3rd hinge

- Hinge surface
- Galvanised Plastic material
- Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273 with short backplate
- with rosette
- with rectangular backplate
- with long backplate One-sided lever set
- OKnob-lever-set
- OPanic pushbar
- OSecurity handle-set
 OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

- Overhead door closer according to DIN EN 1154 GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS

ODORMA ITS 96 / GEZE Boxer GSR Automatic door operator

- according to DIN 18263
- On the active leaf On the active and the inactive leaf
- OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS
- ODORMA ED 100 / 200 / 250 ESR Floor-mounted door closer
- according to DIN EN 1154
 OGEZE BTS 550 IS
- OGEZE BTS 550 IS-G Additional options for door closers
- OIntegrated hold-open device OFree-swing function on the active leaf
- OIntegrated hold-open device with smoke detector

OExternal smoke detector Door closer surface

- Silver-coloured
- Stainless steel Colour-coated
- Special equipment
- Retractable bottom seal
- OClimate category III OElectrical strike ODoor viewer
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Standard
 - On request
- Please fill in



6 N

2-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



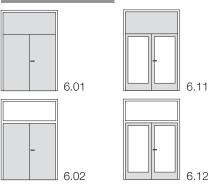
● Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB



O Burglar-Protection WK 2



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 2000-3500			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	936-2936 1968-3468 1718-2968			
Din	Door leaf thickness	70			
	Solid door	0			
ion	Door with vision panel	0			
Configuration	Style door (profile beads)	0			
Jeiju	Climate category II	•			
S	Climate category III	0			
	Stress group E (4)	•			

4)	Rebated	0
Edge	Unrebated with jamb rebate	0
ш	Double-rebated	0
	Solid wall	0
S	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
Sé	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



Standard O On request



6 N GLT

2-leaf door, reversed, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 6.02 GLT / 6.12 GLT

Approval

Approval No. 3613/3350-2

Optional function

● Sound-Insulation Rw,P = 37 dB

Dimensions

🖎 BR-width x BR-height 🕲 Throat opening

Walls

O Solid wall OGasblock concrete wall (M) OGypsum plasterboard wall (L) (F) OF 30-Glazing Type 25 V OWooden elements ≥ F 30B O Steel elements ≥ F 30A

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)
O Solid wooden frame, 70/73 mm respectively

- 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel

Door leaf thickness about 70 mm, meeting stiles double-rebated

- Unrebated with jamb rebate (S)
- Solid door, climate category II
- OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges
■ Solid wood batten, white/red wood, 3-sided

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- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Phonstop 31/45 GH (clear glass)
 OPhonstop 31/45 GH (patterned glass 504)

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door OSpecial vision panel size.
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

OFanlight with transom and fire protection glass made of Pyrostop-Phonstop laminated glass

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VSX 7729/160 VX 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OConcealed hinges
- OHEWI B9107.160 VX
- OAdditional 3rd hinge
- Hinge surface
- Galvanised
- Plastic material
- Stainless steel
- Matt nickel-plated Brass-coloured

PZ-shot-bolt lock on both leafs

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-one-sided lever set according to DIN 18273 on both leafs
 - with long backplate
- OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer

Overhead door closer

- according to DIN EN 1154 • GEZE TS 5500 / DORMA TS 93 • GEZE TS 4000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closer according to DIN EN 1154

- OGEZE BTS 550 F OGEZE BTS 550 F-G
- ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector

Door closer surface Silver-coloured

- Stainless steel
- Colour-coated

Special equipment

- Retractable bottom seal
- OClimate category III
- ODoor viewer OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



6 N GLT

2-leaf door, reversed, with top panel

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



■ Sound-Insulation Rw,P = 37 dB



Models



6.02 GLT

Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1461-2586 1793-3543
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1311-2436 1968-3468 1718-2468
Din	Door leaf thickness	70
	Solid door	0
ion	Door with vision panel	0
ırat	Style door (profile beads)	0
Configuration	Climate category II	•
Cor	Climate category III	0
	Stress group E (4)	•

Edge	Unrebated with jamb rebate	•
	Solid wall	0
Walls	Gasblock concrete wall	0
8	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frame	Solid wooden frame	•



Information







2-leaf door, with top panel

Tender specifications

- Plastic material

- Brass-coloured

- Colour-coated

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 20.01 / 20.11 / 20.02 / 20.12

Approval No. 3305/8419

Optional function

- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

Dimensions

	. BR-width x	BR-height
		Throat opening

- O Solid wall
- (M) (M) O Gasblock concrete wall (L) (F) O Gypsum plasterboard wall
- OGlazing Type 25 V OWooden elements ≥ F 30B
- O Steel elements ≥ F 30A

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall: - Backbend 15 mm

- Backbend 9 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame.
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion. . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- O Sports hall frame
- OProjecting frame
- O Required face width /. . . . mm O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- Q4-sided frame O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/75 mm O Solid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 110 mm, meeting stiles double-rebated

226

- Double-rebated (D)
- Unrebated with double jamb rebate (S)

- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Concealed solid wood edge band, 3-sided
- OColour-coated edge

Vision panel

Type of glass

- Phonstop 31/45 GH (clear glass)
 OPhonstop 31/45 GH (patterned glass 504)

Configuration

- OStandard
- OFramed glazing
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Top panel

- OTop panel
- Counter-rebated and double-rebated
- with transom
- OFanlight with transom and Safety glass same as vision panel

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable
- Double-rebated
- for Rw,P = 42 dB
- OVX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB/32 dB
- VX 7939/160, 3-d.
- OBSW 060-21 VX. 3-d.
- OVELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Double-rebated
- for Rw,P = 42 dB
- Ovx 7939/160 FD OBSW 060-21 VX FD for Rw,P = 37 dB/32 dB
- VX 7939/160 ORSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge

- Unrebated ● VX 7729/160
- O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges

Unrebated

VX 7729/160, 3-d.

O Concealed hinges

O Additional 3rd hinge

O BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S. 3-d.

O HEWI B9107.160 VX, 3-d.

- O HEWI B9107.160 VX
- O Additional 3rd hinge

Hinge surface

Galvanised

Stainless steel

Matt nickel-plated

- PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate with rosette
- with rectangular backplate
- with long backplate
 One-sided lever set
- OKnob-lever-set
- OPanic pushbar OSecurity handle-set

OCode card handle-set Handle surface

- Aluminium
- Stainless steel
- Plastic material

O७

Overhead door closer according to DIN EN 1154

- GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS
- OGEZE TS 5000 IS

ODORMA ITS 96 / GEZE Boxer Automatic door operator according to DIN 18263

- On the active leaf
- On the active and the inactive leaf OGEZE TSA 160 NT F-IS
- OGEZE Slimdrive EMD F-IS ODORMA ED 100 / 200 / 250 ESR Floor-mounted door closer according to EN 1154
- OGEZE BTS 550 IS
- OGEZE BTS 550 IS-G
- Additional options for door closers OIntegrated hold-open device
- OFree-swing function on the active leaf OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated
- Special equipment
- 2 retractable bottom seals OFlectrical strike
- ODoor viewer OBlock lock
- OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)
- Please fill in



20 N

2-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function

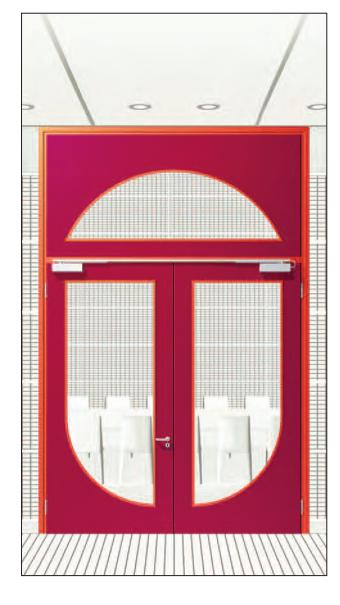


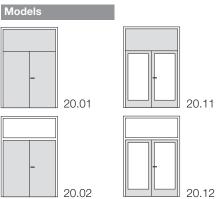
Smoke-Protection

Optional function



- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1375-3000 2000-5000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1281-2906 1968-4968 1703-3453
٦	Door leaf thickness	110
	Solid door	О
tion	Door with vision panel	О
Configuration	Style door (coffer, panel, profile beads)	О
Cor	Climate category II	•
	Stress group E (4)	•

Edge	Double-rebated	0
Ed	with double jamb rebate	0
	Solid wall	0
SE SE	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
	Steel frame	0
တ္ဆ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
	Solid wooden frame	0
	4-sided frame	0



Information





2-leaf door, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 27.11 / 27.12

Approval

Approval No. 3433/3433-2-DS/Ma

Optional function

- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

	BR-width x	BR-height
ᅠ		Throat opening

walls
O Solid wall
O Gasblock concrete wall
OGypsum plasterboard wall
O Glazing Type 25 VRS
OWooden elements ≥ F 30B

Steel frames

O Steel elements ≥ F 30A

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 15 mmwithout floor recess - Backbend 9 mm
- Floor recess 30 mm OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening (top panel)
- O Projecting frame O Sports hall frame

- O Fineline frame
- O Required face width /. . . . mm O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

228

- Wooden block frame, architrave 45/60 mmSolid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Frame width 73/95 mm, meeting stiles rebated

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Safety glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

- Type of glass

 ESG 8 mm (clear glass)
- OVSG 8 mm (clear glass)
- OPyrodur 30-10, 7 mm
- OPhonstop 31/45 GH (clear glass)

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm door rebate dimension over 1100 mm with bottom frieze 195 mm
- side/top/bottom ≥ 105 mm
- door rebate dimension over 1100 mm with bottom frieze 195 mm,
- on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm 🔊 / /
- ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

Top panel

- OTop panel
- Counter-rebated with single rebate
- with transom
- OFanlight with transom and Safety glass same as vision panel

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated Untreated
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated VSX 7939/160, 3-d.

Rebated

● VSX 7939/160

- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

- O VX 7729/160, 3-d. O BSW 060-22 VX. 3-d.

Unrebated

O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges

● VSX 7729/160, 3-d.

- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge

- Wooden frames
 Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)
 - Unrebated
 - VSX 7729/160 O VX 7729/160
- Ovx 7939/160 OBSW 060-21 VX O RSW 060-22 VX
- OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OAdditional 3rd hinge O.
- O VIELER ER.TB.160.332.S O Concealed hinges

O HEWI B9107 160 VX

O Additional 3rd hinge

- Hinge surface
 - Galvanised - Plastic material
 - Matt nickel-plated - Brass-coloured
 - Stainless steel - Colour-coated

PZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock

ONarrow style lock

OPanic lock, fixed knob on one side

OPanic lock, lever-lever

OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock

- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

9 mm spindle

- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette - with rectangular backplate
- with long backplate One-sided lever set
- OKnob-lever-set OPanic pushbar
- OSecurity handle-set

OCode card handle-set Handle surface

- Aluminium
- Stainless steel
- Plastic material

Door closer Overhead door closer

- according to DIN EN 1154
- GEZE TS 5500 IS / DORMA TS 93 GSR
- OGEZE TS 4000 IS OGEZE TS 5000 IS

ODORMA ITS 96 / GEZE Boxer GSR Automatic door operator

- according to DIN 18263
- on the active leaf
- OGEZE TSA 160 NT F-IS
 OGEZE Slimdrive EMD F-IS
 ODORMA ED 100 / 200 / 250 ESR

Floor-mounted door closer according to DIN EN 1154

OGEZE BTS 550 IS OGEZE 550 IS-G

- Additional options for door closers OIntegrated hold-open device
- OFree-swing function on the active leaf OIntegrated hold-open device with smoke detector

OExternal smoke detector

- Door closer surface Silver-coloured
- Stainless steel
- Colour-coated O[®].....
- Retractable bottom seal OElectrical strike
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel OConcealed cable transition

Special equipment

- OSecurity bolts
- OKick plate (aluminium/stainless steel)

Standard

On request

Please fill in



27 N

2-leaf door, with top panel

Performance overview

 S_m-C5

RS

Main function

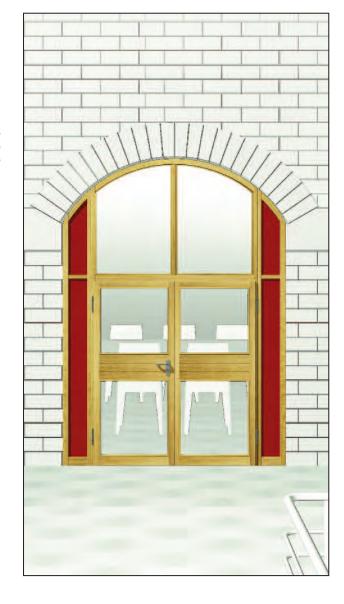


Smoke-Protection

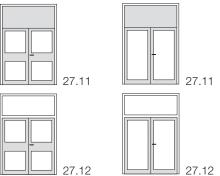
Optional function



- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 2000-5000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	936-2936 1968-4968 1718-3718
	Door leaf thickness	73/95
ion	Solid wood framed door	О
Configuration	Solid wood framed style door (coffer, panel, panel version II)	0
Cor	Climate category II	•
Edge	Rebated	0
Ed	Unrebated with jamb rebate	0

	Solid wall	0
<u>s</u>	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
န္တ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Ŗ	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



Standard O On request



27 N GLT

2-leaf door, reversed, with top panel

Tender specifications

For additional technical information please see appendix, indicated with



RS-2 FORM-Smoke-Protection-Door Model 27.12 GLT

Approval

Approval No. 3433/3433-2

Optional function

● Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

Dimensions

					Е	3F	₹-	W	/ic	dt	h	Х					. BR-height
\otimes																	Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
OF 30-Glazing Type 25 V
OWooden elements > F 30F

Wooden frames

OSteel elements ≥ F 30A

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- Solid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel

Door leaf

Frame width 73/95 mm, meeting stiles rebated

- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OVSG 8 mm (clear glass)
- ODSG 7 mm
- OPyrodur 30-10, 7 mm
- OPhonstop 31/45 GH (clear glass)

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm door rebate dimension over 1100 mm with bottom frieze 195 mm
- Owithout middle frieze, minimum frame widths
- side/top/bottom ≥ 105 mm door rebate dimension over 1100 mm with bottom frieze 195 mm,
- on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm ©...../..../..../..../..../..../
- ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

OFanlight with transom and fire protection glass

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated
- ○◎.....

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm. hinge base 3D adjustable (VHX) Unrebated

- VSX 7729/160
- Ovx 7729/160
- OBSW 060-23 VX
- OVIELER ER.TB.160.332.S
- OConcealed hinges
- OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
 - Plastic material Matt nickel-plated - Brass-coloured
- Stainless steel
- Colour-coated

PZ-shot-bolt lock on both leafs

Forend surface

Stainless steel

Handles

- 9 mm spindle
- OFS-one-sided lever set according to DIN 18273 on both leafs
- with long backplate
- OPanic pushbar

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- O[©].....

Door closer

Overhead door closer according to DIN EN 1154

- GEZE TS 5500 / DORMA TS 93 GEZE TS 4000
- OGEZE TS 5000
- ODORMA ITS 96 / GEZE Boxer

Floor-mounted door closer according to DIN EN 1154

- OGEZE BTS 550 F OGEZE BTS 550 F-G
- ODORMA BTS 80 F

Additional options for door closers

- OIntegrated hold-open device
- OFree-swing function
- OIntegrated hold-open device with smoke detector
- OExternal smoke detector Door closer surface

Silver-coloured

- Stainless steel
- Colour-coated

Special equipment

- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- ○Block lock
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)

27 N GLT

2-leaf door, reversed, with top panel

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



● Sound-Insulation Rw,P = 37 dB

O Sound-Insulation Rw,P = 32 dB



Models





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1461-2586 1793-2543
Dimensions	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1311-2436 1968-3468 1718-2468
ΘË	Door leaf thickness	73/95
ion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	О
Con	Climate category II	•

Edge	Unrebated with jamb rebate	•
	Solid wall	О
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
Frame	Solid wooden frame	•

Information









Fixed glazing

Tender specifications

For additional technical information please see appendix, indicated with



(M)

FORM-Smoke-Protection-Glazing Type 25 V

Optional function

- Smoke-Protection
 Sound-Insulation Rw,P = 50 dB
 Sound-Insulation Rw,P = 42 dB
 Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

🕲 BR-width x BR-height

Walls

- O Solid wall
- O Gasblock concrete wall OGypsum plasterboard wall
- O Classified wooden elements ≥ F 30
- O Covered steel elements ≥ F 30

Fixed glazing

Profile cross-section

- ≥ 55/73/95 mm
- One-sided glazing bead
- ESG 8 mm (clear glass)
- VSG 8 mm (clear glass)
- Pyrodur 30-10,7 mm
- Phonstop 28/40
- for Sound-Insulation Rw,P = 37 dB Phonstop 31/45 GH
- for Sound-Insulation Rw,P = 42 dB
- Panel
- Coffer
- Panel version II ○ Segmentation
- without partitioningHorizontal partitioning
- Vertical partitioning
- Cross partitioning

Surfaces

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil OColour-coated

Special equipment

- OCrash-Protection-Glazing (according to TRAV)
- OCorner posts
- OSupporting posts
- OWall joint posts
- OWall joint mouldings
- OPatched cross bars
- OActual cross bars

Smoke-Protection-Doors according to DIN 18095 with solid wooden frame

- in combination with RS-Glazing Type 25 V
- ORS-1, Type 3 N
- ORS-1, Type 13 N ORS-1, Type 16 N
- ORS-1, Type 5 N ORS-1, Type 35 N ORS-1, Type 10 N
- ORS-1, Type 25 N
- ORS-1, Type 25 N Slimline

- ORS-2, Type 4 N ORS-2, Type 26 N ORS-2, Type 26 N GLT

- ORS-2, Type 26 N GLT
 ORS-2, Type 6 N GLT
 ORS-2, Type 6 N GLT
 ORS-2, Type 27 N
 ORS-2, Type 27 N Slimline
- ORS-2, Type 27 N GLT

Segmentation examples

Segmentation 1 (on request with cross bars) with top panel







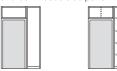


Segmentation 3 (on request with cross bars) with continuous top panel and side panel





Segmentation 4 (on request with cross bars) with top panel and continuous side panel



Segmentation 5 (on request with cross bars) with side panel on both sides





Segmentation 6 (on request with cross bars) with continuous top panel and side panel on both sides





- Segmentation 7 (on request with cross bars) with top panel and continuous side panel hinge and lock edge





Segmentation 8 (on request with cross bars)
Configuration according to drawing





Smoke-Protection-Glazing

25 V

Fixed glazing

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

Optional function



- O Sound-Insulation Rw,P = 50 dB
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

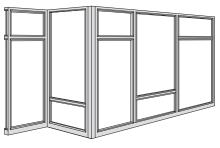
Example of use

Fixed glazing for internal areas

Depending on the pane size (max. 1300 x 2500 mm) the arrangement of the cross bars is possible in any layout, max. pane length 3000 mm with a max. glass surface of 1,8 m².

The single panes can be arranged vertically, on request either in portrait format or landscape

From a wall opening height of 3500 mm on vertical posts (40/100) have to be installed, due to static requirements.



Performance profile

(mu	Solid wall Basic dimension BR-width	unlimited	
s (r	Basic dimension BR-height	max. 5000	
Dimensions (mm)	Gypsum plasterboard wall Basic dimension BR-width Basic dimension BR-height	unlimited max. 4500	
ä	Profile cross-section	≥ 55/73/95	
uo	Glass	•	
urati	Panel	0	
Configuration	Coffer	0	
ပိ	Panel version II	0	
	Solid wall	0	
Walls	Gasblock concrete wall	0	
_	Gypsum plasterboard wall	0	

	RS-1	Type 3 N	0
	RS-1	Type 13 N	0
	RS-1	Type 16 N	0
	RS-1	Type 5 N	0
	RS-1	Type 35 N	0
set	RS-1	Type 50-1	0
loor le)	RS-1	Type 10 N	0
th d	RS-1	Type 17 N	0
wir oden	RS-1	Type 25 N	0
In combination with door set	RS-1	Type 25 N Slimline	0
oina solic	RS-2	Type 4 N	0
omk (in	RS-2	Type 14 N	0
u u	RS-2	Type 26 N/26 N GLT	0
	RS-2	Type 6 N/ 6 N GLT	0
	RS-2	Type 50-2	0
	RS-2	Type 20 N	0
	RS-2	Type 27 N/27 N GLT	0
	RS-2	Type 27 N Slimline	0

Standard O On request









25 V-DK

Openable glazing

Tender specifications

 $S_m - C5$

For additional technical information please see appendix, indicated with



FORM-openable-Smoke-Protection-Glazing Type 25V

Optional function

- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

Dimensions

🕲 BR-width x BR-height

O Solid wall	(M
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
OF 30-Glazing Type 25 V	
OWooden beam ≥ F 60B	
O Covered steel element ≥ F 60A	

Fixed glazing

Profile cross-section ≥ 55/73 mm

- One-sided glazing bead

OInfill

- Fire protection glass
- Pyrostop 30-10 (clear glass)
- Fire protection glass
 Pyrostop 30-12 (patterned glass 504)
- Fire protection glass
 Pyrostop/Phonstop 30-17
- Fire protection glass
- Contraflam 30-N2
- Fire protection glass
- Promat system glass 30
- Panel Coffer
- Panel version II

Surfaces

- O Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- O High pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- O Colour-coated

RS-Smoke-Protection-Doors with solid wooden frame in combination with RS-Glazing Type 25 V O RS-1, Type 3 N O RS-1, Type 13 N

- O RS-1, Type 16 N
- O RS-1, Type 5 N O RS-1, Type 25 N

- O RS-2, Type 4 N O RS-2, Type 14 N O RS-2, Type 26 N O RS-2, Type 26 N GLT
- O RS-2, Type 6 N O RS-2, Type 6 N GLT
- O RS-2, Type 27 N
- O RS-2, Type 27 N GLT

Segmentation examples

Segmentation 1 with top panel



Segmentation 2



Segmentation 3

with continuous top panel and side panel



Segmentation 4

with top panel and continuous side panel



Segmentation 5

with side panel on both sides



Segmentation 6

with continuous top panel and side panel on both sides



Segmentation 7

with top panel and continuous side panel on hinge and lock edge





Smoke-Protection-Glazing

25 V-DK

Openable glazing

Performance overview

 S_m-C5

RS

Main function



Smoke-Protection

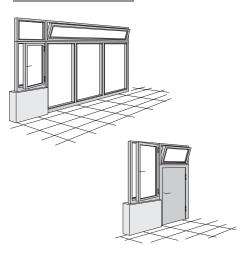
Optional function



O Sound-Insulation Rw,P = 37 dB

O Sound-Insulation Rw,P = 32 dB







Performance profile

ions ()	Basic dimension	1125 x 1500						
Dimensions (mm)	Badie aimendiem	2500 x 1000						
Δ	Profile cross-section	≥ 55/73						
Configuraton	Glass		•					
	Solid wall	0						
Walls	Gasblock concrete wa	0						
Wa	Gypsum plasterboard	0						
	Glazing Type 25 V	0						

	RS-1	Type 3 N	0
	RS-1	Type 13 N	0
	RS-1	Type 16 N	0
set	RS-1	Type 5 N	О
In combination with door set (in solid wooden frame)	RS-1	Type 25 N	0
mbination with doc	RS-2	Type 4 N	О
on v	RS-2	Type 14 N	0
inati	RS-2	Type 26 N	О
omb (in s	RS-2	Type 26 N GLT	0
ln c	RS-2	Type 6 N	О
	RS-2	Type 6 N GLT	0
	RS-2	Type 27 N	0
	RS-2	Type 27 N GLT	0









Sound-Insulation-Doors Content

Function	Configuration	Type	Page
SD 32	1-leaf door	1 N	242
SD 32		3 N	244
SD 32		16 N	246
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SD 42		35 N	250
SD 42		5 N	252
SD 48		17 N	254
SD 50		50-1	256
SD 42		10 N	258
SD 32		25 N	260
SD 32		25 N Slimline	262
SD 32	1-leaf door with top panel	3 N	264
SD 32		16 N	266
SD 37		13 N	268
SD 42		35 N	270
SD 42		5 N	272
SD 48		17 N	274
SD 42		10 N	276
SD 32		25 N	278
SD 32 SD 32 SD 37 SD 42 SD 50 SD 42 SD 32 SD 32	2-leaf door	4 N 26 N 14 N 6 N 50-2 20 N 27 N 27 N Slimline	280 282 284 286 288 290 292
SD 32	2-leaf door, with top panel	4 N	296
SD 32		26 N	298
SD 37		14 N	300
SD 45		6 N	302
SD 42		20 N	304
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SD 42	Fixed glazing	25 V	308





Regulations and requirements

DIN 4109

Since the DIN 4109 has been introduced as a technical building regulation in all German states, the minimum requirements regarding the sound insulation of doors between certain areas and rooms are binding.

CE label

With the introduction of product standards for interior doors (EN 14351-2, publication expected at the end of 2011) and exterior doors / windows EN 14351-1 (since 02-2010), also sound insulation elements have to be marked with the conformity label "CE". On the CE conformity certification the rated sound insulation value of the element, RW with the spectral adaptation values (C; Ctr) according to DIN EN 717-1, has to be specified, for example Rw = 32 dB (-1; -2).

The spectral adaptation values describe the change of the sound insulation value for special applications and the therefor typical sound spectras. Whereas C stands for the change of the sound insulation value for the simulation of typical domestic noise and Ctr for the change of the sound insulation value for the simulation of typical traffic noise. The sound insulation value of the element is calculated for example for predominantly domestic noise from Rw + C.

Attention!

The rated sound insulation value Rw according to DIN EN 717-1 is the inspection value after a test in a laboratory according to DIN EN ISO 140.

The corresponding DIN 4109 describes the value **Rw** as the sound insulation value required on site. The inspection value after a test in a laboratory according to DIN EN ISO 140 is known as **Rw,P**.

Rw according to DIN EN 717-1 = Rw,P according to DIN 4109

For the use of sound insulation elements in Germany the DIN 4109 still has to be observed.







Configuration options

SD Solid door

1-leaf door







1-leaf door, with top panel



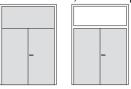
2-leaf door







2-leaf door, with top panel





1-leaf door





Flap

1-leaf door, with top panel

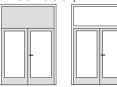


2-leaf door





2-leaf door, with top panel





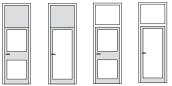
Configuration options

\$D Solid wood framed door

1-leaf door



1-leaf door, with top panel



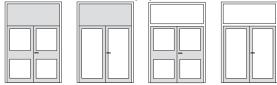
2-leaf door





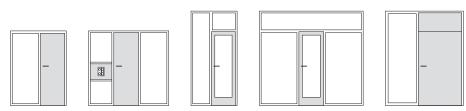


2-leaf door, with top panel



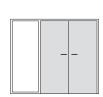
SD Fixed side panels

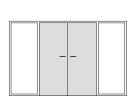
In combination with SD-1 Sound-Insulation-Door

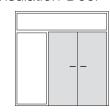


\$D Fixed side panels

In combination with SD-2 Sound-Insulation-Door









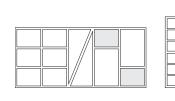


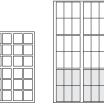
Sound-Insulation-Glazing

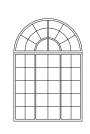
Sound-Insulation-Glazing

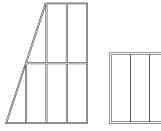
Configuration options

SD Fixed glazing





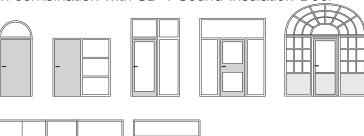






SD Fixed glazing

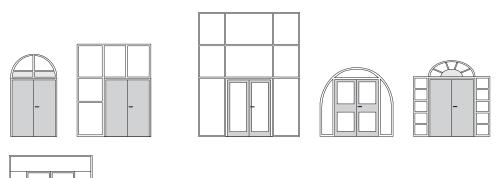
In combination with SD-1 Sound-Insulation-Door





SD Fixed glazing

In combination with SD-2 Sound-Insulation-Door







Tender specifications

SD 32

For additional technical information please see appendix, indicated with



SD 32-1 FORM-Sound-Insulation-Door Model 1.00 / 1.10

- O Sound-Insulation Rw,P = 37 dB Sound-Insulation Rw,P = 32 dB
- OBurglar-Protection WK 2

Approval

 Survey report No. 98 12 28.4, ABO Rosenheim

🕲 Throat opening

- O Solid wall O Gasblock concrete wall (M) O Gypsum plasterboard wall
- O Wooden elements OSteel elements

Standard rebate, galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige) OWooden wrap-around frame, architrave 60/60 mm OSEZ-Wooden frame, architrave 35/35 mm

Door leaf thickness about 42 mm

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration

- **O**Standard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350 mm

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized

Door leaf

- **O**Veneer
- Transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil

Steel frames

2-part hinges, 2 pieces, 100 mm, hinge base 2D adjustable

Unrebated Rebated ● V8037 WF

V8087 WF OVN8938/100 O VN8948/100

Three-roll-hinges, 2 pieces, 160 mm, on request hinge

base 3D adjustablele

Rebated Unrebated

● VN8938/160 Ovs8939/160

- VN8948/160 O VS8949/160
- OVSX7939/16 0 O VSX7729/160
- Ovx7939/160 O VX7729/160
- OBSW060-21 VX O BSW060-22 VX OHEWI B8107.160 VX O HEWI B9107,160 VX
- OAdditional 3rd hinge O Additional 3rd hinge

Wooden frames

Standard-Wooden frame

SEZ-Wooden frame

2-part hinges, 2 pieces, 100 mm, hinge base V3604 Rebated Unrebated

V4487 WF

V4437 WF

Standard-Wooden frame

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustablele (VHX)

Rebated

Unrebated ● VSX 7729/160

- VSX7939/160
- Ovx7939/160 O VX7729/160 Ovx7939/120
- Ovx7939/100
- O VX7729/120
- OBSW060-21 VX OHEWI B8107,160 VX
- O BSW060-22 VX O HEWI B9107,160 VX
- Hinge surface Galvanised
- Matt nickel-plated Stainless steel Plastic material

- Locks
- PZ-lock according to DIN 18251, backset 65 mm
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever

Forend surface

- Galvanised
- Stainless steel

Special equipment

- OClimate category III
- ODoor viewer
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)



Performance overview

SD 32

Main function



O Sound-Insulation Rw,P = 37 dB◆ Sound-Insulation Rw,P = 32 dB

Optional function



O Burglar-Protection WK 2

Models



1.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	500-1314 1750-2250		
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	436-1250 1718-2218		
٦	Door leaf thickness	42		
u	Solid door	0		
Configuration	Door with vision panel	0		
gur	Climate category II	•		
onfi	Climate category III	0		
ပ	Stress group S (3)	•		

Edge	Rebated	О
Ед	Unrebated	0
S	Solid wall	0
Walls	Gasblock concrete wall	0
^	Gypsum plasterboard wall	0
3S	Steel frame	0
Frames	Wooden wrap-around frame	0
	SEZ-Wooden frame	



Sound-Insulation-Doors

Information







Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-1 FORM-Sound-Insulation-Door Model 3.00 / 3.10

Sound-Insulation Rw,P = 32 dB

 Survey report No. G 02 05 03.1, ABO Rosenheim

Optional function

- OBurglar-Protection WK 2
- OBurglar-Protection WK 3 (M 3)
- OWet Room Door NT ORadiation-Protection
- O Bullet-Resistant M 3

Dimensions

1					E	31	۲-	W	/IC	tt	h	Х					. BR-height
0																	Throat opening
																	5

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
O Solid gypsum wall	(V)
O Glazing Type 25 V	(F)
O Wooden elements	

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm

- Backbend 15 mm

- Floor recess 30 mm

- without floor recess

O Steel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

O Steel block frame

Standard installation

Installation in hallways

O Round-shaped frame

OFace expansion

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame
O Frame for installation in existing walls

- Face screw fastening Adapter fastening

Trapezoid anchor fastening

O Projecting frame

OSports hall frame
ORequired face width / . . . mm

O Frame for reconstruction

O Fixed side panel

O Configuration in stainless steel

O4-sided frame

OSteel frame with slide anchor fastening

(solid gypsum wall)

O Sheet thickness 2 mm

OBackbend up to 25 mm

O Lead inlay in frame, max. of 4 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm

- Standard installation

- Installation in hallways

Installation in front of wall opening

Projecting installation O Frame for reconstruction

O Fixed side panel

O4-sided frame

Aluminium frames

Anodized or colour powder-coated,

3-sided special gasket black

OWrap-around frame

OBlock frame with quirk

O Round-shaped frame

Door leaf thickness about 50 mm

- Rebated (F)

Unrebated (S)

Unrebated with jamb rebate (S)

Solid door, climate category II

• Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

- with profile beads

with panel

with coffer

with frame-like and/or fielded additional

wood panelling OArched door

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge

OVeneer edge
OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OESG 8 mm (patterned glass 200)

OVSG 8 mm (clear glass)

ODSG 7 mm

Configuration

OStandard

OFramed glazing
OAccording to DIN 68706

OVision panel, 215/1015 mm

OPorthole Ø 350, 400, 500 and 650 mm OAs multiple glazed door

OSpecial vision panel size mm

ODecorative beads on glass

Glazing beads

OSolid wood veneered

OSolid wood OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

OVeneer

- Transparently coated

Stained/transparently coated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable

Rebated ● VS 8939

OVN 8938 OVSX 7939/160, 3-d. Ovx 7939/100, 3-d. Ovx 7939/120, 3-d. OVX 7939/160, 3-d.

OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d. OHFWI B8106.160 OHEWI B8107.160 VX, 3-d.

OAdditional 3rd hinge

○◎

Unrebated VS 8949 O VN 8948 OVSX 7729/160, 3-d.

O VX 7729/100, 3-d. O VX 7729/120, 3-d. O VX 7729/160, 3-d. O VX 7728-160-FORM

O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges O HEWI B9108.160

O HEWI B9107,160 VX, 3-d O Additional 3rd hinge O 🕲 Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated Unrebated

● VSX 7939/160 VSX 7729/160 Ovx 7939/100 Ovx 7729/100 Ovx 7939/120 Ovx 7729/120 Ovx 7939/160 O VX 7729/160

OBSW 060-21 VX Ovx 7728-160-FORM OVIELER ER.TB.160.337.F OBSW 060-22 VX OVIELER ER.TB.160.332.S OHEWI B8107.160 VX OAdditional 3rd hinge O Concealed hinges Ō®

O HEWI B9107.160 VX O Additional 3rd hinge

Hinge surface Plastic material Galvanised Matt nickel-plated - Brass-coloured Colour-coated

Locks

● Lock according to DIN 18251, class 3 with latch function, backset 65 mm,

prepared for profile cylinder OLock according to DIN 18251, class 4 OLock with special security equipment

OTriple bolting Forend surface

Stainless steel

Galvanised

Stainless steel - Brass-plated

Special equipment

 Retractable bottom seal OSill seal with aluminium threshold

OClimate category III
OLead inlay for Radiation-Protection up to 4 mm

OElectrical strike

ODoor viewer

OBlock lock OBolt contact

OMagnetic contact

OCable channel OConcealed cable transition

OSecurity bolts

OKick plate (aluminium/stainless steel)



3 N

1-leaf door

Performance overview

SD 32

Main function



Sound-Insulation Rw,P = 32 dB

Optional function



O Burglar-Protection WK 2 O Burglar-Protection WK 3 (M 3)



O Wet Room (NT)



O Radiation-Protection



O Bullet-Resistant M 3

Models



3.00





Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	500-1375 1750-2750		
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	436-1311 1718-2718		
۵	Door leaf thickness	50		
	Solid door	0		
<u>_</u>	Door with vision panel	0		
Configuration	Style door (coffer, panel, profile beads)	0		
onfi	Climate category II	•		
Ŏ	Climate category III	О		
	Stress group E (4)	•		

0	Rebated	0
Edge	Unrebated	0
"	Unrebated with jamb rebate	0
	Solid wall	0
, l	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
တ္ဆ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
ᇤ	Solid wooden frame	0
	Aluminium frame	0



Sound-Insulation-Doors

Information







Tender specifications

SD 32

Unrebated

Wooden frames

● VSX 7939/160

OBSW 060-21 VX

OHEWI B8107.160 VX

OAdditional 3rd hinge

О®

Hinge surface

Galvanised

OTriple bolting

Galvanised

- Brass-plated

ODoor viewer

OBlock lock

OBolt contact OMagnetic contact

OCable channel

OSecurity holts

Forend surface

Stainless steel

Special equipment

Retractable bottom seal

OConcealed cable transition

OKick plate (aluminium/stainless steel)

OSill seal with aluminium threshold

OLead inlay for Radiation-Protection up to 4 mm OElectrical strike

Locks

Matt nickel-plated

Stainless steel

Ovx 7939/160

Three-roll-hinges, 2 pieces, 160 mm,

OVIELER ER.TB.160.337.F OVIELER ER.TB.160.332.S

● Lock according to DIN 18251, class 3

with latch function, backset 65 mm, prepared for profile cylinder

OLock according to DIN 18251, class 4

OLock with special security equipment

VSX 7729/160

Ovx 7729/160

OBSW 060-22 VX

O Concealed hinges

O HEWI B9107.160 VX

O Additional 3rd hinge

Plastic material

- Brass-coloured

- Colour-coated

hinge base 3D adjustable (VHX)

Rebated/Double-rebated

Information

For additional technical information please see appendix, indicated with



SD 32-1 FORM-Sound-Insulation-Door Model 16.00 / 16.10

● Sound-Insulation Rw,P = 32 dB

Survey report No. G 02 05 03.7,

Optional function

- OBurglar-Protection WK 2
- OBurglar-Protection WK 3
- O Burglar-Protection WK 4 O Radiation-Protection

Dimensions

S. BR-width x BR-height 🕲 Throat opening

Walls

O Solid wall O Gasblock concrete wall (M)OGypsum plasterboard wall (L) (F) O Glazing Type 25 V O Wooden elements

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mm
 without floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls

 Adapter fastening

 Trapezoid anchor fastening

- O Projecting frame
- O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel O Configuration in stainless steel O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special Osolid wooden frame, architrave 45/60 mm
Osolid wooden frame, architrave 45/60 mm
Osolid wooden frame, 70/73 mm, respectively

- 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
 Frame for reconstruction
- O Fixed side panel
- O4-sided frame

246

Aluminium frames

Anodized or colour powder-coated,

- 3-sided special gasket black
- OWrap-around frame
- OBlock frame with quirk
- O Round-shaped frame

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
 Double-rebated (D)
- Solid door, climate category II
- OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- Arched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge OVeneer edge OPlastic material edge
- OColour-coated edge O.....

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm
- Configuration
- **O**Standard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass
- Glazing beads
- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm On site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated/Double-rebated

- VS 8939
- **O**VN 8938 OVSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d. OHEWI B8108.160
- OHEWI B8107 160 VX 3-d OAdditional 3rd hinge O®
- Unrebated ● VS 8949
- **O** VN 8948 O VSX 7729/160, 3-d.
- O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.
- OVIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
- O HEWI B9108,160 O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge ○◎.....
- Standard



16 N

1-leaf door

Performance overview

SD 32

Main function

Sound-Insulation Rw,P = 32 dB

Optional function



- O Burglar-Protection WK 2
- O Burglar-Protection WK 3 O Burglar-Protection WK 4



O Radiation-Protection





16.00





Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 1750-3500				
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1436 1718-3468				
٦	Door leaf thickness	70				
	Solid door	0				
<u>_</u>	Door with vision panel	0				
Configuration	Style door (coffer, panel, profile beads)	0				
onfi	Climate category II	•				
ű	Climate category III	0				
	Stress group E (4)	•				

Super size: On request with a door leaf width of up to 2000 mm!

Information

For additional technical information please see appendix, indicated with i

4)	Rebated	0
Edge	Unrebated with jamb rebate	О
ш	Double-rebated	0
	Solid wall	0
S	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
	Steel frame	О
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Ŧ	Solid wooden frame	0
	Aluminium frame	0



Sound-Insulation-Doors









Tender specifications

SD 37

Information

For additional technical information please see appendix, indicated with



SD 37-1 FORM-Sound-Insulation-Door Model 13.00 / 13.10

- O Sound-Insulation Rw,P = 42 dB
- Sound-Insulation Rw,P = 37 dB

Approval

- Survey report No. G 02 05 03.5 (37 dB), ABO Rosenheim
- O Survey report No. G 02 05 03.25 (42 dB), ABO Rosenheim

Optional function

- O Burglar-Protection WK 2
- O Radiation-Protection

Dimensions

D									Е	3F	₹-	W	/ic	tt	h	Χ					. BR-height
																					Throat opening
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_					

Walls

O Solid wall
Casblock concrete wall
OGypsum plasterboard wa
OGlazing Type 25 V
O Wooden elements

OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mm - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame. for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Sports hall frame
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls

 Adapter fastening

 Trapezoid anchor fastening

- OProjecting frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- Q4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm O.

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

248

- OWooden block frame, architrave 45/60 mm OSolid wooden frame, 70/73 mm
- Standard installation

Wooden frames

- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- OFixed side panel O4-sided frame

Aluminium frames

Anodized or colour powder-coated,

- 3-sided special gasket black
- OWrap-around frame
- OBlock frame with quirk
- O Round-shaped frame

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II*
- Stress group S (3)
- OStress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beadswith frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Optiphon 11/10 N (clear glass)
- OPhonstop 28/40 (clear glass)
- OPhonstop 28/40 (patterned glass 504)

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames**

Three-roll-hinges, 2 pieces, on request with 3D adjustable hinge base (VHX)

Rebated ● VS 8939 ○ VN 8938 OVSX 7939/160, 3-d.

Unrebated VS 8949

Ovx 7939/100, 3-d. Ovx 7939/120, 3-d. Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
OVIELER ER.TB.160.337.F, 3-d.

OHEWI B8108.160

OAdditional 3rd hinge

O VN 8948 O VSX 7729/160, 3-d.

O VX 7729/100, 3-d. O VX 7729/120, 3-d. O VX 7729/160, 3-d. O VX 7728-160-FORM O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S, 3-d. OHEWI B8107,160 VX, 3-d. O Concealed hinges

O HEWI B9108,160 O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

for door configuration Rw,P = 42 dB

- * only available in solid door configuration
- ** equipped with FD-hinge

Wooden frames**

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX)

- Rebated Unrebated ● VSX 7939/160 ● VSX 7729/160 Ovx 7939/100 Ovx 7729/100 Ovx 7939/120 Ovx 7729/120
- Ovx 7939/160 OBSW 060-21 VX Ovx 7729/160 Ovx 7728-160-FORM OVIELER ER.TB.160.335.F OBSW 060-22 VX OVIELER ER.TB.160.332.S OHEWI B8107.160 VX
- OAdditional 3rd hinge O Concealed hinges Ō® OHEWI B9107.160 VX O Additional 3rd hinge
- Hinge surface Plastic material Galvanised Matt nickel-plated - Brass-coloured
 - Colour-coated Stainless steel

Locks

● Lock according to DIN 18251, class 3 with latch function, backset 65 mm,

prepared for profile cylinder OLock according to DIN 18251, class 4 OLock with special security equipment

OTriple bolting Forend surface

- Galvanised
- Stainless steel
- Brass-plated
 - Special equipment Retractable bottom seal
- OClimate category III
- OLead inlay for Radiation-Protection up to 4 mm OElectrical strike
- ODoor viewer
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition OSecurity holts
- OKick plate (aluminium/stainless steel)

Standard On request



13 N

1-leaf door

Performance overview

SD 37

Main function



- O Sound-Insulation Rw,P = 42 dB
- Sound-Insulation Rw,P = 37 dB

Optional function



O Burglar-Protection WK 2



O Radiation-Protection



Models



13.00



Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	500-1375 1750-2750					
nensior	Clear passage LD-width Clear passage LD-height	436-1311 1718-2718					
Din	Door leaf thickness	50					
	Solid door*	0					
ion	Door with vision panel	0					
Configuration	Style door (profile beads)	0					
ηfig	Climate category II	•					
S	Climate category III	0					
	Stress group E (4)	•					

4	Rebated	0
Edge	Unrebated	0
	Unrebated with jamb rebate	О
	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
ရွ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
芷	Solid wooden frame	0
	Aluminium frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with



for door configuration Rw,P = 42 dB

* only available in solid door configuration



Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 42-1 FORM-Sound-Insulation-Door Model 35.00 / 35.10

● Sound-Insulation Rw,P = 42 dB

• Survey report No. G 99 12 03.2, ABO Rosenheim CE-label according to DIN EN 14351-1 (external doors), applied for approval

Optional function

- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB
- O Burglar-Protection WK 2
- OBurglar-Protection WK 3
- Climate sturdiness
 Climate category IV
- Protection against cold/heat insulation (solid door) $u = 1,38 \frac{W}{m^2 \cdot K}$ (SD 42)

 $u=1,31~\frac{W}{m^2\cdot K}$ (SD 37 / SD 32)

Seal impermeability

 $a < 1.0 \frac{m^3}{h \cdot m}$ because Pa ^{2/3}

Dimensions

0									BF	₹-	W	İC	lth		Χ					BF	₹-h	ei	ght		
																			 1	Γhr	oat	t	ope	ninç	g
W/	3	'n	J	i	i	ı	ı	ı		ı	ı	ı		ı		L									

vvalis
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wa
O Glazing Type 25 V
O Wooden elements
OSteel elements

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- Solid wooden frame, 70/95 mm,
- aluminium stop rail
- Standard installation
- Installation in hallways
 Installation in front of wall opening
- Projecting installation

Door leaf

Door leaf thickness about 70 mm

- Double-rebated (D)
- Solid door, climate category IV
- Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges
Solid wood batten, white/red wood, 3-sided

- OColour-coated edge

Vision panel

Type of glass

Sound-insulation glass combination of different functional glass, depending on the purpose

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size . . ODecorative beads on glass

Glazing beads

- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/HPL
- OColour-coated
- OColour-scumbled

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Double-rebated

● VX 7939/160 FD

OBSW 060-21 VX FD

OAdditional 3rd hinge O®

Hinge surface

- Galvanised
- Plastic material Brass-colouredColour-coated Matt nickel-plated
- Stainless steel

- Lock according to DIN 18251, class 3
- with latch function, backset 80 mm prepared for profile cylinder OLock according to DIN 18251, class 4
- OLock with special security equipment

OTriple bolting Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

- Retractable bottom seal
 Delectrical strike
- ODoor viewer
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



35 N

1-leaf door

Performance overview

SD 42

Main function



- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Optional function



- O Burglar-Protection WK 2
- O Burglar-Protection WK 3



 Climate sturdiness, protection against cold/ heat insulation

Note

Door element for external use; for not directly weather exposed locations.

Models



35.00





Performance profile

Information

Basic dimension BR-width Basic dimension BR-height	689-1314 1782-2282
Clear passage LD-width Clear passage LD-height	539-1164 1707-2207
Door leaf thickness	70
Solid door	0
Door with vision panel	0
Style door (profile beads)	0
Climate category IV	•
Stress group E (4)	•
	Basic dimension BR-height Clear passage LD-width LD-height Door leaf thickness Solid door Door with vision panel Style door (profile beads) Climate category IV

Edge	Double-rebated	•
	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frame	Solid wooden frame	•



Sound-Insulation-Doors





Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 42-1 FORM-Sound-Insulation-Door Model 5.00 / 5.10

● Sound-Insulation Rw,P = 42 dB

 Survey report No. G 02 05 03.3, ABO Rosenheim

Optional function

- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 37 dB
- O Burglar-Protection WK 2 O Burglar-Protection WK 3
- O Radiation-Protection

Dimensions

\otimes					Е	3F	₹-	W	/ic	dt	h	Х					. BR-height
																	Throat opening

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
OGlazing Type 25 V	(F)
O.Wooden elemente	

OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mmFloor recess 30 mm
- Backbend 15 mm without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
 Adapter fastening
 Trapezoid anchor fastening

- OProjecting frame
- O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm, respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel

O4-sided frame

Aluminium frames

Anodized or colour powder-coated,

- 3-sided special gasket black
- OWrap-around frame
- OBlock frame with quirk
- O Round-shaped frame

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
 OColour-coated edge

Vision panel

- Type of glass

 Phonstop 31/45 GH (clear glass)

 OPhonstop 31/45 GH (patterned glass 504)

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized OStainless steel (porthole Ø 350 mm)
- Surfaces

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

- Rebated/Double-rebated for Rw.P = 45/42 dB ● VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw.P = 37 dB
- VSX 7939/160, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX. 3-d. OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

- Unrebated VSX 7729/160, 3-d.
- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. OVIELER ER TR 160 332 S. 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated/Double-rebated Unrebated for Rw,P = 45/42 dB • vsx 7729/160 ● VX 7939/160 FD

Ovx 7939/160

- OBSW 060-21 VX FD for Rw,P = 37 dB● VSX 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107,160 VX
- OAdditional 3rd hinge
- Hinge surface Galvanised
 - Plastic material
- Matt nickel-plated
- Brass-coloured

● Lock according to DIN 18251, class 3 with latch function, backset 65 mm,

OTriple bolting

- Forend surface
- Stainless steel
- Brass-plated
- 2 retractable bottom seals
- OLead inlay for Radiation-Protection up to 4 mm OElectrical strike

- OBolt contact

- Ovx 7729/160
- O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges O HEWI B9107,160 VX O Additional 3rd hinge

Stainless steel

prepared for profile cylinder OLock according to DIN 18251, class 4 OLock with special security equipment

Galvanised

- Special equipment
- OClimate category III
- ODoor viewer
- OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts



Sound-Insulation-Doors

5 N

1-leaf door

Performance overview

SD 42

Main function



- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB

Optional function



- O Burglar-Protection WK 2 O Burglar-Protection WK 3
- O Radiation-Protection



Models



5.00



Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 1750-3000
nension	Clear passage LD-width Clear passage LD-height	561-1436 1718-2968
Din	Door leaf thickness	70
	Solid door	0
_	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
onfi	Climate category II	•
O	Climate category III	0
	Stress group E (4)	•

	Rebated	0
Edge	Unrebated with jamb rebate	0
"	Double-rebated	0
	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
ဖွ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
ᄩ	Solid wooden frame	0
	Aluminium frame	0



Information



Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 48-1 FORM-Sound-Insulation-Door Model 17.00

● Sound-Insulation Rw,P = 48 dB

• Survey report No. G 02 05 03.14, ABO Rosenheim

Optional function

- OBurglar-Protection WK 2
- OBurglar-Protection WK 3

Dimensions

	 		В	R-	W	idt	th	Х			BR-height
	 ٠.		٠.								. Throat opening

Walls

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall: - Backbend 9 mm Gypsum plasterboard wall:

Backbend 15 mmwithout floor recess

- Floor recess 30 mm OSteel wrap-around frame, for solid wall

O Steel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion / mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Projecting frame

O Required face width /. . . . mm

O Fixed side panel

O Configuration in stainless steel O 4-sided frame

O Sheet thickness 2 mm

OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/75 mm OSolid wooden frame, 70/73 mm

Standard installationInstallation in hallways

Installation in front of wall opening

Projecting installation

O Fixed side panel O4-sided frame

Door leaf

Door leaf thickness about 70 mm

Double-rebated

Solid door, climate category II

• Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

- with profile beads

- with frame-like and/or fielded additional wood panelling

OArched door

Edges

Solid wood batten, white/red wood, 3-sided
 OConcealed solid wood edge band, 2-sided

OPU-edge

OVeneer edge

OPlastic material edge

OColour-coated edge

Surfaces

Door leaf / Wooden frame

OVeneer

- Transparently coated

Stained/transparently coated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Double-rebated

● VX 7939/160 FD, 3-d.

OBSW 060-21 VX FD, 3-d.

OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Double-rebated

● VX 7939/160 FD

OBSW 060-21 VX FD

OAdditional 3rd hinge O №

Hinge surface

 Galvanised Matt nickel-plated - Brass-coloured

- Colour-coated Stainless steel

Locks

- Lock according to DIN 18251, class 3 with latch function, backset 80 mm, prepared for profile cylinde
- OLock according to DIN 18251, class 4 OLock with special security equipment

OTriple bolting Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

- 2 retractable bottom seals
- OClimate category III
- OElectrical strike
- ODoor viewer
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



1-leaf door

Performance overview

SD 48

Main function



Sound-Insulation Rw,P = 48 dB

Optional function



O Burglar-Protection WK 2

O Burglar-Protection WK 3



Models



17.00

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 1750-2500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	531-1220 1703-2453
Din	Door leaf thickness	70
u	Solid door	0
atio	Style door (profile beads)	0
Configuration	Climate category II	•
onfi	Climate category III	0
O	Stress group E (4)	•

Edge	Double-rebated	•
·s	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	О
	Steel frame	0
န္တ	Wooden wrap-around frame	О
Frames	Wooden block frame	0
ᇤ	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i







Tender specifications

SD 50

Information

For additional technical information please see appendix, indicated with



SD 50-1 FORM-Sound-Insulation-Door Model 50-1.00

Sound-Insulation Rw,P = 50 dB

Survey report No. G 02 05 03.50,

Optional function

- O Sound-Insulation Rw,P = 48 dB
- O Burglar-Protection WK 2
- O Burglar-Protection WK 3

Dimensions

					В	F	۱-v	٧i	dt	th	Х					. BR-height
(2)																Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wa
O Glazing Type 25 V
O Wooden elements

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mmwithout floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
 Installation in hallwork
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
 O Sports hall frame
- O Required face width /. . . . mm
- OFrame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm
- O Solid wooden frame, 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame
- ○◎

Door leaf

Door leaf thickness about 91 mm

- Double-rebated (D)
- Solid door, climate category II
- Stress group E (4)
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVeneer edge
 OPlastic material edge
- OColour-coated edge
- O.....

Surfaces

Door leaf / Wooden frame

- OVeneer
 - Transparently coated
 - Stained/transparently coated
 - Untreated
 - OHigh pressure laminate (HPL), 0,8 mm
 - On site coating/undercoating foil
 - OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable

- Double-rebated
- VX 7939/160-4 N FD, 3-d.
- OBSW 090-21 VX FD, 3-d. OAdditional 3rd hinge
- OAdditional 4th hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable (VHX)

- Double-rebated
- VX 7939/160 N FD-4
- OBSW 090-21 VX FD OAdditional 3rd hinge
- OAdditional 4th hinge

Hinge surface

- Galvanised Matt nickel-plated
 - Brass-coloured
- Stainless steel - Colour-coated

- Lock according to DIN 18251, class 3 with latch function, backset 80 mm, prepared for profile cylinde
- OLock according to DIN 18251, class 4 OLock with special security equipment OTriple bolting

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

- 2 retractable bottom seals
- OClimate category III
- OElectrical strike
- ODoor viewer
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)



50-1

1-leaf door

Performance overview

SD 50

Main function



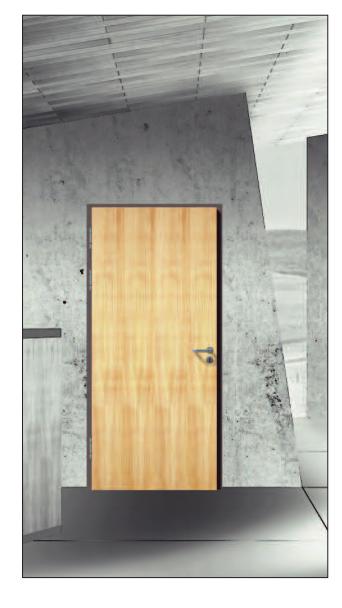
Sound-Insulation Rw,P = 50 dB O Sound-Insulation Rw,P = 48 dB

Optional function



O Burglar-Protection WK 2

O Burglar-Protection WK 3



Models



50-1.00

Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	875-1500 1750-3000			
ensior	Clear passage LD-width Clear passage LD-height	791-1405 1703-2953			
Dir	Door leaf thickness	91			
	Solid door	О			
Configuration	Style door (coffer, panel, profile beads)	0			
ıfigı	Climate category II	•			
Sol	Climate category III	0			
	Stress group E (4)	•			

Edge	Double-rebated	•
	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	О
nes	Wooden wrap-around frame	О
Frames	Wooden block frame	0
_	Solid wooden frame	0



Sound-Insulation-Doors



Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 45-1 FORM-Sound-Insulation-Door Model 10.00 / 10.10

● Sound-Insulation Rw,P = 42 dB

 Survey report No. 41 65 3 / 6, Müller BBM

Optional function

- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

🕲 Throat opening

O Solid wall (M)O Gasblock concrete wall (M) O Gypsum plasterboard wall (L) (F) OGlazing Type 25 V O Wooden elements

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mmwithout floor recess
- Floor recess 30 mm OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
 Installation in hallwork
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
 O Required face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O 4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm
- O Solid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 110 mm

- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Concealed solid wood edge band, 3-sided
- OColour-coated edge
- O.....

Vision panel

Type of glass

● Phonstop 37/49 GH (clear glass)

Configuration

- OStandard

- OFramed glazing
 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size . . ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

- Double-rebated for Rw,P = 45 dB / 42 dB
- OVX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB/32 dB

- VX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107,160 VX, 3-d.
- OAdditional 3rd hinge

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable (VHX)

- Double-rebated for Rw,P = 45 dB / 42 dB

 vx 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB / 32 dB VX 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OAdditional 3rd hinge

O◎......

- Unrebated VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
 O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge
- ○◎.....

- Unrebated
 - VX 7729/160 O BSW 060-22 VX
 - O VIELER ER.TB.160.332.S
 - O Concealed hinges
 O HEWI B9107.160 VX
 - O Additional 3rd hinge

0 №

- with latch function, backset 80 mm,
- prepared for profile cylinde OLock according to DIN 18251, class 4

- Brass-plated

- ODoor viewer
- OBolt contact

- OSecurity bolts

- Hinge surface
 - Plastic material
 - Galvanised Matt nickel-plated - Brass-coloured
 - Stainless steel - Colour-coated
- Lock according to DIN 18251, class 3
- OLock with special security equipment OTriple bolting
- Forend surface
- Galvanised
- Stainless steel
- Special equipment
- 2 retractable bottom seals
- OElectrical strike
- OBlock lock
- OMagnetic contact
- OCable channel OConcealed cable transition
- OKick plate (aluminium/stainless steel)



1-leaf door

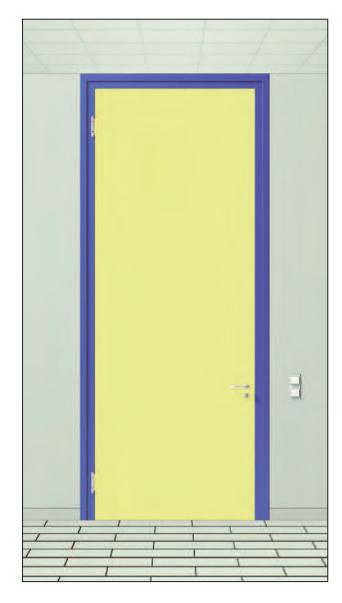
Performance overview

SD 42

Main function



- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models



10.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	780-1530 1765-3515
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	686-1436 1718-3468
۵	Door leaf thickness	110
	Solid door	0
ion	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
Cor	Climate category II	•
	Stress group E (4)	•

Edge	Double-rebated	О
В	with double jamb rebate	0
	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	О
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i







Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-1 FORM-Sound-Insulation-Door Model 25.10

Sound-Insulation Rw,P = 32 dB

• Survey report No. G 02 05 03.12, ABO Rosenheim

Optional function

O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB

Dimensions

🕲 Throat opening

Walls O Solid wall (M) (L) (F) O Gasblock concrete wall OGypsum plasterboard wall OGlazing Type 25 V O Wooden elements OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mmwithout floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, Sheet thickness 2 mm, 32/17 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fasteningTrapezoid anchor fastening
- OProjecting frame O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- OWooden block frame, architrave 45/60 mm OSolid wooden frame, 70/73 respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
 O Fixed side panel
- O4-sided frame

Door leaf

Frame width 73/95 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Safety glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II
- OSolid wood framed door with round arch

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OVSG 8 mm (clear glass) ODSG 7 mm
- OPyrodur 30-10, 7 mm
- OPhonstop 31/45 GH (clear glass)

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm door rebate dimension over 1100 mm with bottom frieze 195 mm
- side/top/bottom ≥ 105 mm door rebate dimension over 1100 mm with
 - bottom frieze 195 mm, on request with cross bar $\geq 70 < 150$ mm, on request with intermediate frieze $\geq 150 < 280$ mm
- ©...../..../..../
 ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated
- O.....

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8108.160 OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge Ο಄.....
- Unrebated VSX 7729/160, 3-d.
- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
 O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
- O HEWI B9108.160 O HEWI B9107,160 VX, 3-d.
- O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated Unrebated

- VSX 7939/160 VSX 7729/160 Ovx 7729/160 Ovx 7939/160
- OBSW 060-21 VX OBSW 060-22 VX OVIELER ER.TB.160.337.F OVIELER ER.TB.160.332.S
- OAdditional 3rd hinge
 - O Concealed hinges OHEWI B9107.160 VX O Additional 3rd hinge
- Hinge surface Galvanised
- Plastic material Matt nickel-plated - Brass-coloured
- Colour-coated Stainless steel

Locks

- Lock according to DIN 18251, class 3 with latch function, backset 65 mm
- prepared for profile cylinder OLock according to DIN 18251, class 4 OLock with special security equipment

OTriple bolting Forend surface

- Galvanised
- Stainless steel - Brass-plated
- Special equipment
- Retractable bottom seal
- OSill seal with aluminium threshold
- OElectrical strike OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



Sound-Insulation-Doors

25 N

1-leaf door

Performance overview

SD 32

Main function



- O Sound-Insulation Rw.P = 42 dB
- O Sound-Insulation Rw.P = 37 dB
- Sound-Insulation Rw,P = 32 dB



Models



25.10



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 1750-3750
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1436 1718-3718
٦	Door leaf thickness	73/95
tion	Solid wood framed door	•
Configuration	Solid wood framed style door (coffer, panel, panel version II)	О
Cor	Climate category II	•
Edge	Rebated	0
Ed	Unrebated with jamb rebate	О

	Solid wall	О
<u>s</u>	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
တ္ဆ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



Standard On request



25 N Slimline

1-leaf door

Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-1 FORM-Sound-Insulation-Door Model 25.10 Slimline

● Sound-Insulation Rw,P = 32 dB

• Survey report No. G 02 05 03.12, ABO Rosenheim

Optional function

O Sound-Insulation Rw,P = 37 dB

Dimensions

(2)	BR-width x	BR-height
		Throat opening

Walls
O Solid wall O Gasblock concrete wall O Gypsum plasterboard wa O F 30-Glazing Type 25 V O Wooden elements O Steel elements

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Solid wooden frame, 70/73 mm respectively
- 70/95 mm Standard installation
- Installation in hallways
 Installation in front of v Installation in front of wall opening
- Projecting installation
- O Fixed side panel
- O4-sided frame O [®]

Frame width 50 mm

- Unrebated
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

- ●ESG 8 mm (clear glass) ○ESG 10 mm (clear glass)
- OVSG 10 mm (clear glass) OOPTILAM Phon 13.8 L

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom \geq 30/30/0 mm
- Owithout middle frieze, minimum frame widths side/top/bottom ≥ 30/30/0 mm, on request with bar ≥ 55 < 150 mm, on request with
- intermediate frieze ≥ 150 < 280 mm for bottom frieze widths = 0 mm,
- stainless steel guard rail required ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated O.....

Hinges

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VX 7729/160
- OBSW 060-22 VX OVIELER ER.TB.160.332.S
- OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Plastic material Matt nickel-plated - Brass-coloured
- Stainless steel
- Colour-coated

- PZ-lock according to DIN 18250, backset 65 mm,
- ONarrow style lock
- OPanic lock, fixed knob on one side OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

- 9 mm spindle
- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosettewith rectangular backplate
- with long backplate
- OKnob-lever-set, fixed knob on one side
- OPanic pushbar
- OSecurity handle-set
- OCode card handle-set Handle surface

- Aluminium
- Stainless steel Plastic material

Special equipment

- Retractable bottom seal
- OElectrical strike
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts
- ○◎.....



25 N Slimline

1-leaf door

Tender specifications

SD 32

Main function



O Sound-Insulation Rw.P = 37 dB

Sound-Insulation Rw,P = 32 dB



Models



25.10 SL



25.10 SL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	750-1375 1750-2625
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	648-1250 1699-2449
	Door leaf thickness	50
tion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	О
Cor	Climate category II	•
Edge	Unrebated	•

	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	O
-rames	Solid wooden frame	0
Frar	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i







1-leaf door, with top panel

Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-1 FORM-Sound-Insulation-Door Model 3.01 / 3.11 / 3.02 / 3.12

• Sound-Insulation Rw,P = 32 dB

Survey report No. G 02 05 03.1,

Optional function

O Radiation-Protection (Model 3.01 / 3.11)

Dimensions

					Е	3F	₹-	٧	۷İ	dt	th	1	Х					. BR-height
																		Throat opening

vvalis
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
O Solid gypsum wall
O Glazing Type 25 V
O Wooden elements
O Steel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Backbend 15 mm
 without floor recess - Floor recess 30 mm

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

O Steel block frame

Standard installation Installation in hallways O Round-shaped frame

OFace expansion.

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

OFrame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening (top panel)

O Sports hall frame

O Projecting frame

O Required face width /. . . . mm

O Frame for reconstruction O Fixed side panel

O Configuration in stainless steel

O4-sided frame

O Sheet thickness 2 mm

OBackbend up to 25 mm

O Lead inlay in frame, max. of 4 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

O Solid wooden frame, 70/73 mm

Standard installation

Installation in hallways
Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel

O4-sided frame

Door leaf

Door leaf thickness about 50 mm

Rebated (F)

Unrebated (S)

Unrebated with jamb rebate (S)

Solid door, climate category IIStress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

with panel

with coffer

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OESG 8 mm (patterned glass 200)

OVSG 8 mm (clear glass)

ODSG 7 mm

Configuration

OStandard

OFramed glazing

OAccording to DIN 68706 OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel size mm

ODecorative beads on glass

Glazing beads

OSolid wood veneered OSolid wood

OAluminium untreated/anodized OStainless steel (porthole Ø 350 mm)

Top panel

OTop panel

Counter-rebated

with transom

OFanlight with transom and security glass

Door leaf / Top panel / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable

Rebated

● VS 8939

OVN 8938

Ovsx 7939/160, 3-d. Ovx 7939/100, 3-d. Ovx 7939/120, 3-d.

Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.

OVIELER ER.TB.160.337.F, 3-d. OHEWI B8108.160 OHEWI B8107,160 VX, 3-d.

OAdditional 3rd hinge

Unrebated

VS 8949 O VN 8948

O VSX 7729/160, 3-d. O VX 7729/100, 3-d.

O VX 7729/160, 3-d. O VX 7728-160-FORM

 \mathbf{O} VIELER ER.TB.160.332.S, 3-d. O Concealed hinges

O HEWI B9108.160 O HEWI B9107.160 VX, 3-d O Additional 3rd hinge O 🕲 Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated Unrebated ● VSX 7939/160 VSX 7729/160

Ovx 7939/100 Ovx 7729/100 Ovx 7939/120 Ovx 7729/120 Ovx 7729/160 Ovx 7728-160-FORM Ovx 7939/160 OBSW 060-21 VX

OVIELER ER.TB.160.337.F OBSW 060-22 VX OVIELER ER.TB.160.332.S OHEWI B8107.160 VX OAdditional 3rd hinge O Concealed hinges Ō® OHEWI B9107.160 VX

O Additional 3rd hinge

Hinge surface - Plastic material Galvanised

Matt nickel-plated - Brass-coloured Colour-coated Stainless steel

● Lock according to DIN 18251, class 3 with latch function, backset 65 mm,

prepared for profile cylinder OLock according to DIN 18251, class 4 OLock with special security equipment

OTriple bolting

Forend surface Galvanised

Stainless steel

Brass-plated

Special equipment Retractable bottom seal

OSill seal with aluminium threshold

OClimate category III

OLead inlay for Radiation-Protection up to 4 mm OElectrical strike

ODoor viewer

OBlock lock

OBolt contact

OMagnetic contact

OCable channel OConcealed cable transition

OSecurity bolts

OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

Performance overview

SD 32

Main function



Sound-Insulation Rw,P = 32 dB

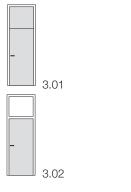
Optional function

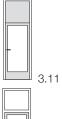


O Radiation-Protection (Model 3.01 / 3.11)



Models







Performance profile

<u> </u>	Basic dimension BR-width	500-1375			
mu)	Basic dimension BR-height	2000-3500			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	436-1311 1968-3468 1718-2468			
Dir	Door leaf thickness	50			
	Solid door	0			
_	Door with vision panel	0			
Configuration	Style door (coffer, panel, profile beads)	O			
Julie	Climate category II	•			
Ö	Climate category III	0			
	Stress group E (4)	•			

σ,	Rebated	0
Edge	Unrebated	0
	Unrebated with jamb rebate	0
	Solid wall	0
,,	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
န	Wooden wrap-around frame	0
Frames	Wooden block frame	0
<u>r</u>	Solid wooden frame	0
	Aluminium frame	О



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i



Standard O On request



1-leaf door, with top panel

Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-1 FORM-Sound-Insulation-Door Model 16.01 / 16.11 / 16.02 / 16.12

Sound-Insulation Rw,P = 32 dB

 Survey report No. G 02 05 03.7, ABO Rosenheim

Optional function

- O Radiation-Protection (Model 16.01 / 16.11)
- OBurglar-Protection WK 2
- OBurglar-Protection WK 3
- O Burglar-Protection WK 4

Dimensions

					Е	BF	₹-	W	/io	dt	h	Х					. BR-height
																	Throat opening

Walls

O Solid wall
OGasblock concrete wall
OGypsum plasterboard wal
OGlazing Type 25 V
O.Wooden elemente

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mm
 without floor recess
- Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- Steel wrap-around frame. for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening (top panel)
- O Projecting frame
 O Required face width / mm
- O Frame for reconstruction
- O Fixed side panel O Configuration in stainless steel
- Q4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm, respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II OSolid door, climate category III
- Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration

- **O**Standard
- OFramed glazing OAccording to DIN 68706
- OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated with single rebate
- with transom
- OFanlight with transom and sound-insulation glass

Door leaf / Top panel / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated/Double-rebated Unrebated

VS 8939

OVN 8938

OVSX 7939/160, 3-d. OVX 7939/160, 3-d. OBSW 060-21 VX, 3-d.

OVIELER ER.TB.160.337.F, 3-d. OHEWI B8108.160 OHEWI B8107.160 VX, 3-d.

- VS 8949 O VN 8948
- O VSX 7729/160, 3-d.
- O VX 7729/160, 3-d.
- \mathbf{O} VIELER ER.TB.160.332.S, 3-d. O Concealed hinges
- O HEWI B9108.160 O HEWI B9107.160 VX, 3-d.
- OAdditional 3rd hinge O. O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated/ Double-rebated Unrebated VSX 7729/160

● VSX 7939/160 Ovx 7939/160

- OBSW 060-22 VX
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
 - OVIELER ER.TB. 160.332.S O Concealed hinges
- OAdditional 3rd hinge O.
 - O HEWI B9107,160 VX O Additional 3rd hinge O №

Hinge surface

- Plastic material
- Galvanised Matt nickel-plated
- Brass-coloured

Locks

● Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder

OLock according to DIN 18251, class 4

OTriple bolting

Forend surface

- Galvanised
- Brass-plated

Special equipment

- Retractable bottom seal
- OSill seal with aluminium threshold
- OElectrical strike
- OBlock lock
- OCable channel
- OSecurity bolts

- Stainless steel
- Colour-coated

- OLock with special security equipment

Stainless steel

- OLead inlay for Radiation-Protection up to 4 mm
- ODoor viewer
- OBolt contact
- OMagnetic contact
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

Performance overview

SD 32

Main function



Sound-Insulation Rw,P = 32 dB

Optional function



O Radiation-Protection (Model 16.01 / 16.11)



- O Burglar-Protection WK 2 O Burglar-Protection WK 3
- O Burglar-Protection WK 4



Rebated

Solid wall

Steel frame

4-sided frame

Double-rebated

Unrebated with jamb rebate

Gasblock concrete wall

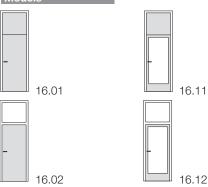
Glazing Type 25 V

Wooden block frame Solid wooden frame

Gypsum plasterboard wall

Wooden wrap-around frame

Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-4000			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-3968 1718-3468			
Dir	Door leaf thickness	70			
	Solid door	0			
u	Door with vision panel	0			
Configuration	Style door (coffer, panel, profile beads)	0			
onfi	Climate category II	•			
Ŏ	Climate category III	0			
	Stress group E (4)	•			

Super size: On request with a door leaf width of up to 2000 mm!



For additional technical information please see appendix, indicated with i

Standard	O On request

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Sound-Insulation-Doors





1-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 37-1 FORM-Sound-Insulation-Door Model 13.01 / 13.11 / 13.02 / 13.12 O Sound-Insulation Rw,P = 42 dB

Sound-Insulation Rw,P = 37 dB

Approval

- Survey report No. G 02 05 03.5 (37 dB), ABO Rosenheim
- O Survey report No. G 02 05 03.25 (42 dB), ABO Rosenheim

Optional function

O Radiation-Protection (Model 13.01 / 13.11)

🐿 Throat opening

- O Solid wall O Gasblock concrete wall (M) O Gypsum plasterboard wall (L) (F) OGlazing Type 25 V OWooden elements
- OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Gypsum plasterboard wall: - Backbend 15 mm

- Backbend 9 mm
- Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame. for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- . . . /. mm O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening (top panel)
- O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction O Fixed side panel
- OProjecting frame
- O Configuration in stainless steel
- Q4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

O Lead inlay in frame, max. of 4 mm

O.

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

268

- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- 04-sided frame
- O Frame for reconstruction
- O Fixed side panel

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
 Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
 OPlastic material edge
- OColour-coated edge
- O[®].....

Vision panel

Type of glass

- Optiphon 11/10 N (clear glass)
- OPhonstop 28/40 (clear glass)
- OPhonstop 28/40 (patterned glass 504)

Configuration

- ○Standard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size . .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated
- with transom
- OFanlight with transom and sound-insulation glass

Door leaf / Top panel / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Steel frames**

Three-roll-hinges, 2 pieces, on request with 3D adjustable hinge base

- VS 8939 OVN 8938 OVSX 7939/160, 3-d.
- Ovx 7939/100, 3-d.
- Ovx 7939/120, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d. OHEWI B8108.160 OHEWI B8107.160 VX, 3-d.

OAdditional 3rd hinge

- Unrebated
- VS 8949 O VN 8948
- O VSX 7729/160, 3-d. O VX 7729/100, 3-d. O VX 7729/120, 3-d.
- O VX 7729/160, 3-d. O VX 7728-160-FORM
- O BSW 060-22 VX, 3-d. OVIELER ER.TB. 160.332.S. 3-d.
- O Concealed hinges O HEWI B9108.160 O HEWI B9107, 160 VX, 3-d.
- O Additional 3rd hinge ○◎

for door configuration Rw,P = 42 dB

- * only available in solid door configuration ** equipped with FD-hinge

Wooden frames**

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX)

Rebated Unrebated ● VSX 7939/160 ● VSX 7729/160

- Ovx 7939/100 Ovx 7729/100 Ovx 7939/120 Ovx 7729/120 Ovx 7729/160 Ovx 7728-160-FORM Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F OBSW 060-22 VX
- OVIELER ER.TB.160.332.S OHEWI B8107.160 VX OAdditional 3rd hinge O Concealed hinges Ō® O HEWI B9107.160 VX
 - O Additional 3rd hinge
- Hinge surface Galvanised - Plastic material - Brass-coloured Matt nickel-plated

- Colour-coated

Locks

- Stainless steel

- Lock according to DIN 18251, class 3 with latch function, backset 65 mm,
- prepared for profile cylinder OLock according to DIN 18251, class 4 OLock with special security equipment

OTriple bolting

- Forend surface Galvanised
- Stainless steel
- Brass-plated
- Special equipment
- Retractable bottom seal OClimate category III
- OElectrical strike
- ODoor viewer
- OLead inlay for Radiation-Protection up to 4 mm
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

Performance overview

SD 37

Main function



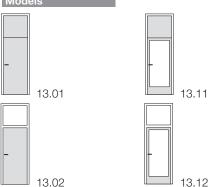
- O Sound-Insulation Rw,P = 42 dB
- Sound-Insulation Rw,P = 37 dB

Optional function



O Radiation-Protection (Model 13.01 / 13.11)







(mm)	Basic dimension BR-width Basic dimension BR-height	625-1375 2000-3500				
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	436-1311 1968-3468 1718-2718				
٦	Door leaf thickness	50				
	Solid door*	0				
Ē	Door with vision panel	0				
atio	Style door (profile beads)	0				
igur	Climate category II	•				
Configuration	Climate category III	0				
0	Stress group S (3)	•				
	Stress group E (4)	0				

0	Rebated	О
Edge	Unrebated	0
"	Unrebated with jamb rebate	0
	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
ပ္ဆ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
뇬	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

For additional technical information please see appendix, indicated with

for door configuration Rw,P = 42 dB

* only available in solid door configuration

 Standard 	 On request
- Otaliaala	On Toquosi



1-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 42-1 FORM-Sound-Insulation-Door Model 35.02 / 35.12

● Sound-Insulation Rw,P = 42 dB

• Survey report No. G 99 12 03.2, ABO Rosenheim

OCE-label according to DIN EN 14351-1 (external doors), applied for approval

Optional function

O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

O Burglar-Protection WK 2 OBurglar-Protection WK 3

Climate sturdiness
 Climate category IV

Protection against cold/heat insulation (solid door) $u = 1,38 \frac{W}{m^2 \cdot K}$ (SD 42)

 $u=1,31\;\frac{W}{m^2\cdot K}$ (SD 37 / SD 32)

Seal impermeability

 $a < 1.0 \; \frac{m^{\scriptscriptstyle 3}}{h \cdot m} \;\; \text{because Pa}^{^{\; 2/3}}$

🖎BR-width xBR-height 🕲 Throat opening

O Solid wall O Gasblock concrete wall (M) OGvpsum plasterboard wall (L) (F) OGlazing Type 25 V O Wooden elements

OSteel elements

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

Solid wooden frame, 70/95 mm,

aluminium stop rail

Standard installation

Installation in hallways

Installation in front of wall opening

Projecting installation

Door leaf

Door leaf thickness about 70 mm

Double-rebated (D)

O Solid door, climate category IV

• Stress group E (4)

O Door with holohedral additional wood panelling, one-/two-sided

O Style door

with profile beadswith from: " with frame-like and/or fielded additional wood panelling

O Door with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

O Colour-coated edge

Vision panel

Type of glass

OSound-insulation glass combination of different functional glass, depending on the purpose

Configuration

OStandard

OFramed glazing

OAccording to DIN 68706

OVision panel, 215/1015 mm

OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel size mm

ODecorative beads on glass

Glazing beads OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Top panel

OFanlight with transom and sound-insulation glass in combination with different functional glass, depending on the purpose

Door leaf / Top panel / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

On site coating/HPL

OColour-coated

OColour-scumbled

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Double-rebated for Rw,P = 42 dB

● VX 7939/160 FD

OBSW 060-21 VX FD

OAdditional 3rd hinge

O⊚......

Hinge surface

Galvanised

Plastic material

Matt nickel-plated Stainless steel

- Brass-coloured - Colour-coated

Locks

- Lock according to DIN 18251, class 3 with latch function, backset 80 mm prepared for profile cylinder
- OLock according to DIN 18251, class 4
- OLock with special security equipment

OTriple bolting Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

- Retractable bottom seal
- OElectrical strike (not with WK)
- ODoor viewer
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

Performance overview

SD 42

Main function



- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Optional function



- O Burglar-Protection WK 2 O Burglar-Protection WK 3
- Climate sturdiness, protection against cold/ heat insulation

Note

Door element for external use; for not directly weather exposed locations.



Models





35.12

Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	689-1314 2032-3032			
Dimensions	Clear passage LD-width Clear passage LD-height Clear passage (door) height	539-1164 1957-2957 1705-2205			
ਨੂੰ	Door leaf thickness	70			
_	Solid door	0			
atio	Door with vision panel	0			
Configuration	Style door (profile beads)	0			
onfi	Climate category IV	•			
	Stress group E (4)	•			

Edge	Double-rebated	•
	Solid wall	О
Walls	Gasblock concrete wall	0
8	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frame	Solid wooden frame	•



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i



Standard On request



1-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 42-1 FORM-Sound-Insulation-Door Model 5.01 / 5.11 / 5.02 / 5.12

Sound-Insulation Rw,P = 42 dB

 Survey report No. G 02 05 03.3, ABO Rosenheim

Optional function

- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 37 dB
- O Radiation-Protection (Model 5.01 / 5.11)
- O Burglar-Protection WK 2 O Burglar-Protection WK 3

Dimensions

1				. Ł	3F	₹-	W	/((tt	h	Х					. BR-height
																Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wa
O Glazing Type 25 V
O Wooden elements

OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mm - without floor recess
- Floor recess 30 mm OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls Adapter fastening
- Trapezoid anchor fastening (top panel) O Projecting frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Wooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm, respectively
- 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)

- Solid door, climate category II
 Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Phonstop 31/45 GH (clear glass) OPhonstop 31/45 GH (patterned glass 504)
- Configuration
- OStandard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

- OTop panel
- Counter-rebated (double-rebated)
- with transom
- OFanlight with transom and sound-insulation glass

Door leaf / Top panel / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated/Double-rebated

- for Rw,P = 45/42 dB ● VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB

 VSX 7939/160, 3-d. Ovx 7939/160, 3-d.

OAdditional 3rd hinge

- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge

Wooden frames

VSX 7939/160

Ovx 7939/160

OBSW 060-21 VX

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated/Double-rebated Unrebated for Rw,P = 45/42 dB

- VSX 7729/160 O VX 7729/160
- VX 7939/160 FD OBSW 060-21 VX FD for Rw,P = 37 dBO BSW 060-22 VX
 - O VIELER ER.TB.160.332.S
 - O Concealed hinges
 - O HEWI B9107.160 VX
 - O Additional 3rd hinge

OAdditional 3rd hinge Hinge surface

OVIELER ER.TB.160.337.F

OHEWI B8107,160 VX

- Galvanised - Plastic material
- Matt nickel-plated
 - Brass-coloured - Colour-coated

Stainless steel

- Lock according to DIN 18251, class 3
- with latch function, backset 65 mm, prepared for profile cylinder OLock according to DIN 18251, class 4
- OLock with special security equipment OTriple bolting

Forend surface

Locks

- Galvanised
- Stainless steel
- Special equipment
- OClimate category III
- ODoor viewer
- OBlock lock
- OCable channel
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

- Brass-plated
- 2 retractable bottom seals
- OLead inlay for Radiation-Protection up to 4 mm OElectrical strike
- OBolt contact
- OMagnetic contact
- OConcealed cable transition



1-leaf door, with top panel

Performance overview

SD 42

Main function



- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB

Optional function



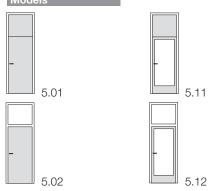
O Radiation-Protection (Model 5.01 / 5.11)



- O Burglar-Protection WK 2
- O Burglar-Protection WK 3



Models



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-3500			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-3468 1718-2968			
Ω	Door leaf thickness	70			
	Solid door	0			
L	Door with vision panel	0			
Configuration	Style door (coffer, panel, profile beads)	0			
onfi	Climate category II	•			
Ö	Climate category III	0			
	Stress group E (4)	•			

Edge	Rebated	0
	Unrebated with jamb rebate	0
ш	Double-rebated	0
	Solid wall	0
S	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors



1-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 48-1 FORM-Sound-Insulation-Door Model 17.01 / 17.02

● Sound-Insulation Rw,P = 47 dB

Survey report No. G 02 05 03.14,

Dimensions

..........BR-width xBR-height 🖎 Throat opening

O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall O Wooden elements

OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Backbend 15 mmwithout floor recess
- Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation Installation in hallways
- O Round-shaped frame
- OFace expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OProjecting frame
 ORequired face width / mm
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- O Backbend up to 25 mm
- ○◎

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/75 mm

- OSolid wooden frame, 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel O4-sided frame

Door leaf

Door leaf thickness about 70 mm

- Double-rebated (D)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge OVeneer edge
- OPlastic material edge
- OColour-coated edge

Top panel

- OTop panel
- Counter-rebated (double-rebated)
- with transom
- OFanlight with transom and sound-insulation glass

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

- Double-rebated
- VX 7939/160 FD, 3-d. OBSW 060-21 VX FD, 3-d.
- OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Double-rebated ● VX 7939/160 FD
- OBSW 060-21 VX FD
- OAdditional 3rd hinge

Hinge surface

Galvanised Brass-coloured

- Colour-coated

Matt nickel-plated Stainless steel

Locks

- Lock according to DIN 18251, class 3 with latch function, backset 80 mm, prepared for profile cylinder
- OLock according to DIN 18251, class 4 OLock with special security equipment

OTriple bolting Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

- 2 retractable bottom seals
- OClimate category III
- OElectrical strike
- ODoor viewer
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

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1-leaf door, with top panel

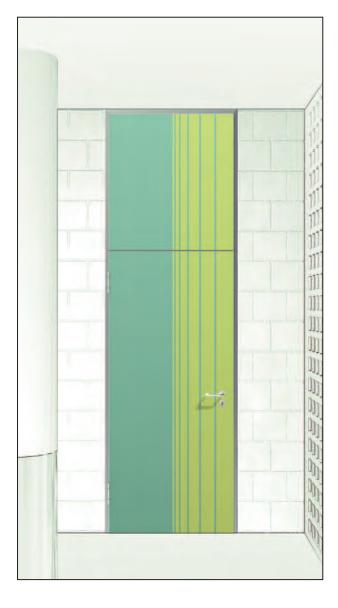
Performance overview

SD 48

Main function



Sound-Insulation Rw,P = 47 dB



Models



17.01



17.02

Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 2000-3500
	Clear passage LD-width Clear passage LD-height Clear passage (door) height	531-1220 1703-3453 1953-2453
٥	Door leaf thickness	70
	Solid door	О
Configuration	Style door (profile beads)	O
ıfigu	Climate category II	•
Cor	Climate category III	0
	Stress group E (4)	•

Edge	Double-rebated	•
0	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	О
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i



Standard O On request



1-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 45-1 FORM-Sound-Insulation-Door Model 10.01 / 10.11 / 10.02 / 10.12

Sound-Insulation Rw,P = 42 dB

 Survey report No. 41 65 3 / 6, Müller BBM

Optional function

- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

(D)	 	3R-width	X	BR-height
	 			Throat opening
				, ,

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
O Glazing Type 25 V
O.Woodon olomonto

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Backbend 15 mmwithout floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame.
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening (top panel)
- O Projecting frame
- O Required face width / . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm OSolid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 110 mm

- Double-rebated (D)
 - Unrebated with double jamb rebate (S)
 - Solid door, climate category II
 - ODoor with holohedral additional wood panelling, one-/two-sided
 - OStyle door
 - with profile beads
 - with panel up to Rw,P = 37 dB
 - with coffer up to Rw,P = 37 dB
 - with frame-like and/or fielded additional wood panelling
 - ODoor with vision panel

Edges

- Concealed solid wood edge band, 3-sided
- OColour-coated edge

Vision panel

Type of glass

Phonstop 37/49 GH (clear glass)

Configuration

- OStandard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Top panel

- OTop panel
- Counter-rebated (double-rebated)
- with transom
- OFanlight with transom and sound-insulation glass

Door leaf / Top panel / Wooden frame

- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Double-rebated

- VX 7939/160 FD, 3-d.

- OBSW 060-21 VX. 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

hinge base 3D adjustable (VHX)

● VX 7939/160

- OBSW 060-21 VX FD for Rw,P = $37 \, dB/32 \, dB$
- OAdditional 3rd hinge

- **O**Veneer
- Transparently coated

- for Rw,P = $45 \, dB/42 \, dB$
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB/32 dB
- VX 7939/160, 3-d.
- OVELER ER.TB.160.337.F, 3-d.
- Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, Double-rebated for Rw,P = 45 dB / 42 dB
- VX 7939/160 FD
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX

- Unrebated
- VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.
- O VIELER ER.TB. 160.332.S. 3-d. O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge
- 0.....
- Unrebated ● VX 7729/160 O BSW 060-22 VX
- O VIELER ER.TB.160.332.S O Concealed hinges O HEWI B9107.160 VX O Additional 3rd hinge

- Plastic material
 - Matt nickel-plated
- Stainless steel

- Lock according to DIN 18251, class 3 with latch function, backset 80 mm,
- OLock according to DIN 18251, class 4

OTriple bolting

- OBlock lock
- OMagnetic contact
- OConcealed cable transition

- Brass-coloured
 - Colour-coated

- prepared for profile cylinder
- OLock with special security equipment

Forend surface

- Galvanised
- Stainless steel
- Brass-plated
- Special equipment • 2 retractable bottom seals
- OElectrical strike
- ODoor viewer
- OBolt contact
- OCable channel
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

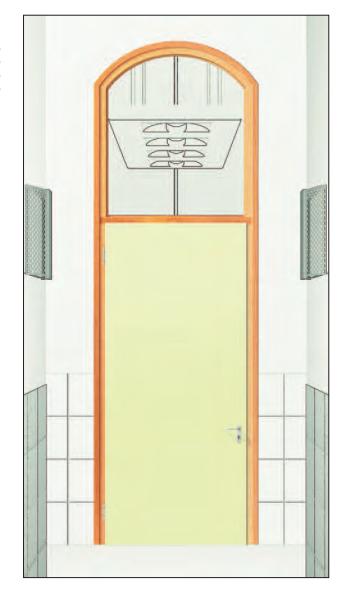
Performance overview

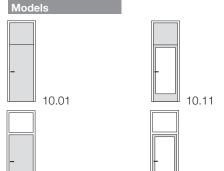
SD 42

Main function



- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB





Performance profile

10.02

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	780-1530 2000-5000
	Clear passage LD-width Clear passage LD-height Clear passage (door) height	686-1436 1953-4953 1703-3453
٩	Door leaf thickness	110
L	Solid door	0
atic	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
Ŏ	Climate category II	•

10.12

Edge	Double-rebated	0
	with double jamb rebate	0
	Solid wall	0
န္ဓ	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with





1-leaf door, with top panel

Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-1 FORM-Sound-Insulation-Door Model 25.11 / 25.12

Sound-Insulation Rw,P = 32 dB

Survey report No. G 02 05 03.12,

Optional function

O Sound-Insulation Rw,P = 42 dB

OSound-Insulation Rw,P = 37 dB

Dimensions

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L) O Glazing Type 25 V

O Wooden elements

O Steel elements

Steel frames

Galvanised and undercoated, sheet thickness 1.5 mm. 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Backbend 15 mmwithout floor recess

- Floor recess 30 mm

OSteel wrap-around frame, for solid wall

O Steel wrap-around frame,

for gypsum plasterboard wall O Corner frame. Sheet thickness 2 mm, 32/17 mm

O Steel block frame

Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion . .

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

OFrame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening (top panel)

O Sports hall frame

O Projecting frame
O Required face width / . . . mm

O Frame for reconstruction

O Fixed side panel O Configuration in stainless steel

O4-sided frame O Sheet thickness 2 mm

O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/75 mm O Solid wooden frame, 70/73 mm respectively 70/95 mm

Standard installation

Installation in hallways

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel

O4-sided frame 0....

Door leaf

Frame width 73/95 mm

Rebated (F)

Unrebated with jamb rebate (S)

Solid wood framed door, climate category II

- Safety glass

OSolid wood framed style door

with panel

with coffer

with panel version II

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OVSG 8 mm (clear glass)

ODSG 7 mm

OPhonstop 31/45 GH (clear glass)

Configuration

OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm door rebate dimension over 1100 mm with

bottom frieze 195 mm

side/top/bottom ≥ 105 mm door rebate dimension over 1100 mm with

bottom frieze 195 mm, on request with cross bar $\geq 70 < 150$ mm, on request with intermediate frieze ≥ 150 < 280 mm

ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

Top panel

OTop panel

Counter-rebated with single rebate

with transom

OFanlight with transom and security glass

Door leaf / Top panel / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

Untreated

OOn site coating/undercoating foil

OColour-coated

O.....

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated

● VSX 7939/160, 3-d. Ovx 7939/160, 3-d.

OAdditional 3rd hinge

OBSW 060-21 VX. 3-d.

OVIELER ER.TB.160.337.F, 3-d. OHEWI B8108.160 OHEWI B8107.160 VX, 3-d.

Ò.....

Unrebated

VSX 7729/160, 3-d. O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S. 3-d. O Concealed hinges

O HEWI B9108.160 O HEWI B9107,160 VX, 3-d. O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated Unrebated

● VSX 7939/160 VSX 7729/160 Ovx 7939/160 Ovx 7729/160 OBSW 060-21 VX O BSW 060-22 VX

OVIELER ER.TB.160.337.F OVIELER ER.TB.160.332.S OHEWI B8107.160 VX O Concealed hinges

OAdditional 3rd hinge O HEWI B9107.160 VX Ο◎ O Additional 3rd hinge 0.....

Hinge surface

 Plastic material Galvanised

Matt nickel-plated Stainless steel

- Brass-coloured - Colour-coated

Locks

● Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder

OLock according to DIN 18251, class 4 OLock with special security equipment OTriple bolting

Forend surface

Galvanised

Stainless steel Brass-plated

Special equipment

 Retractable bottom seal OSill seal with aluminium threshold

OElectrical strike

OBlock lock

OBolt contact

OMagnetic contact

OCable channel

OConcealed cable transition

OSecurity bolts

OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

Performance overview

SD 32

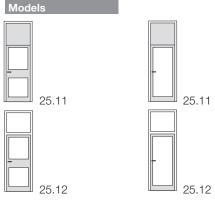
Main function



- \odot Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- Sound-Insulation Rw,P = 32 dB







Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-5000
	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-4968 1718-3718
۵	Door leaf thickness	73/95
tion	Solid wood framed door	•
Configuration	Solid wood framed style door (coffer, panel, panel version II)	O
So	Climate category II	•
Edge	Rebated	0
Ed	Unrebated with jamb rebate	0
	· · · · · · · · · · · · · · · · · · ·	

Walls	Solid wall	0
	Gasblock concrete wall	0
	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	О
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with



Standard On request



Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-2 FORM-Sound-Insulation-Door Model 4.00 / 4.10

● Sound-Insulation Rw,P = 32 dB

Survey report No. G 02 05 03.2,

Dimensions

..........BR-width xBR-height 🕲 Throat opening

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wal
O Solid gypsum wall
O Glazing Type 25 V
O Wooden elements

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall: - Backbend 15 mm

- Backbend 9 mm - Floor recess 30 mm

- without floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion / mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

OFrame for installation in existing walls

Face screw fastening Adapter fastening

Trapezoid anchor fastening

ORequired face width /. . . . mm

OProjecting frame

O Sports hall frame O Frame for reconstruction

O Fixed side panel

O Configuration in stainless steel

O 4-sided frame

O Sheet thickness 2 mm

OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm

Standard installation

Installation in hallways

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel

O4-sided frame

Door leaf

Door leaf thickness about 50 mm,

rebated meeting stiles with rabbet ledge on push side

Unrebated (S)

Solid door, climate category II

OSolid door, climate category III

Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

- with profile beads

with panel

with coffer

with frame-like and/or fielded additional

wood panelling OArched door

ODoor with vision panel

Solid wood batten, white/red wood, 3-sided
 OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge

OVeneer edge

OPlastic material edge

OColour-coated edge

○◎......

Vision panel

Type of glass

● ESG 8 mm (clear glass)
OESG 8 mm (patterned glass 200)

OVSG 8 mm (clear glass)

ODSG 7 mm

Configuration

OStandard

OFramed glazing
OAccording to DIN 68706
OVision panel, 215/1015 mm

OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel size .

ODecorative beads on glass Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

OVeneer

- Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Steel frames
Three-roll-hinges, 2 pieces, on request hinge base 3D adjustable

Rebated VSX 7939/160, 3-d.

Ovx 7939/100, 3-d. Ovx 7939/120, 3-d.

OAdditional 3rd hinge

Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.

Unrebated

VSX 7729/160, 3-d. O VX 7729/100, 3-d.

O VX 7729/120, 3-d. O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S, 3-d. O Concealed hinges
O HEWI B9107.160 VX, 3-d.

O Additional 3rd hinge

Three-roll-hinges, 2 pieces, on request hinge base 3D adjustable (VHX)

Rebated

Unrebated

● VSX 7939/160 VSX 7729/160 Ovx 7939/100 Ovx 7729/100 Ovx 7939/120 Ovx 7729/120

Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX

O VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S O Concealed hinges
O HEWI B9107.160 VX

OAdditional 3rd hinge 0..... O Additional 3rd hinge

Hinge surface

Galvanised

- Plastic material

Matt nickel-plated - Brass-coloured Stainless steel - Colour-coated

 Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder, inactive leaf with concealed shot-bolt lock

OLock according to DIN 18251, class 4 Olnactive leaf with shot-bolt lock

OTriple bolting

Forend surface

Galvanised Stainless steel

- Brass-plated

Special equipment Retractable bottom seal

OClimate category III

OElectrical strike

ODoor viewer OBlock lock

OBolt contact OMagnetic contact

OCable channel

OConcealed cable transition

OSecurity bolts OKick plate (aluminium/stainless steel)



2-leaf door

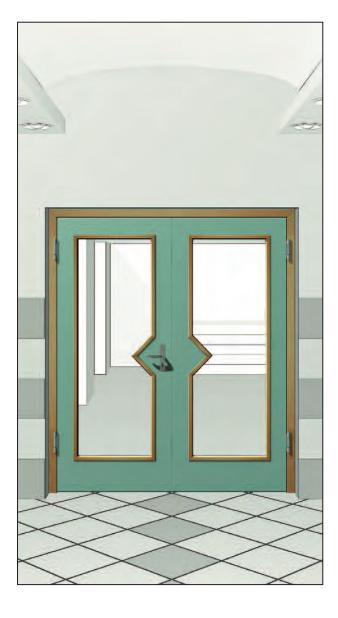
Performance overview

SD 32

Main function



Sound-Insulation Rw,P = 32 dB



Models





Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 1750-2750
	Clear passage LD-width Clear passage LD-height	811-2686 1718-2718
۵	Door leaf thickness	50
	Solid door	0
ے	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
jjuc	Climate category II	•
ŏ	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
띱	Unrebated	0
	Solid wall	0
, l	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	0
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with



Standard O On request



Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-2 FORM-Sound-Insulation-Door Model 26.00 / 26.10

● Sound-Insulation Rw,P = 32 dB

 Survey report No. G 02 05 03.8, ABO Rosenheim

Optional function

O Burglar-Protection WK 2

Dimensions

	BR-width x	BR-height
		Throat opening

Walls

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
O Glazing Type 25 V	(F
OM/	

) Wooden elements OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Floor recess 30 mm
- Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width /. . . . mm
- OProjecting frame
- O Sports hall frame
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
 OWooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm respectively
- 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm, meetingstiles with single rebate

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
 OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panelwith coffer
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel
- OReversed door set

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

O.Standard

- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door OSpecial vision panel size mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable

- Rebated/Double-rebated
- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 VX. 3-d.
- OVELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- Unrebated
- VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O BSW 060-22 VX 3-d
- OVIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges O HEWI B9107,160 VX. 3-d
- O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated/ Unrebated

● VSX 7939/160

- Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OAdditional 3rd hinge
- O.

Hinge surface

- Brass-coloured
- Matt nickel-plated Stainless steel

- Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder,
- OTriple bolting

Forend surface

- Stainless steel

- OBolt contact
- OMagnetic contact
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)

Double-rebated

- VSX 7729/160
- OBSW 060-22 VX
 OVIELER ER.TB.160.332.S O Concealed hinges
- O HEWI B9107,160 VX O Additional 3rd hinge 0.....
- Galvanised
- Plastic material
- Colour-coated

inactive leaf with concealed shot-bolt lock OLock according to DIN 18251, class 4 Olnactive leaf with shot-bolt lock

- Galvanised
- Brass-plated
- Special equipment Retractable bottom sealElectrical strike
- ODoor viewer
- OBlock lock
- OCable channel
- OSecurity holts



2-leaf door

Performance overview

SD 32

Main function

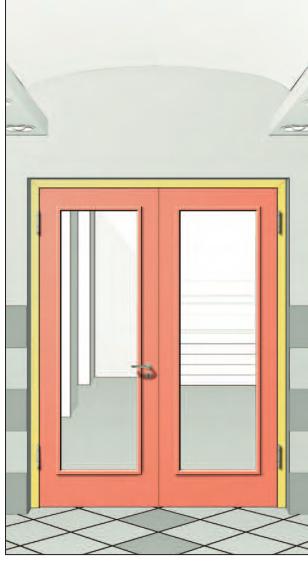


Sound-Insulation Rw,P = 32 dB

Optional function



O Burglar-Protection WK 2



Rebated

Solid wall

Steel frame

Frames

Double-rebated

Unrebated with jamb rebate

Gasblock concrete wall

Glazing Type 25 V

Wooden block frame

Solid wooden frame

4-sided frame

Gypsum plasterboard wall

Wooden wrap-around frame

Models



26.00

26.10

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 1718-3468
Oin	Door leaf thickness	70
	Solid door	0
_	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
onfi	Climate category II	•
ŭ	Climate category III	0
	Stress group E (4)	•

Super size: On request with a door leaf width of up to 2000 mm!

For additional technical information please see appendix, indicated with i Standard O On request

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Sound-Insulation-Doors



Tender specifications

SD 37

Information

For additional technical information please see appendix, indicated with



SD 37-2 FORM-Sound-Insulation-Door Model 14.00 / 14.10

Sound-Insulation RwP = 37 dB

• Survey report No. G 02 05 03.6, ABO Rosenheim

🕲 BR-width x BR-height Throat opening

- O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L) O Glazing Type 25 V (F)
- O Wooden elements OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
 - Backbend 15 mm
 without floor recess Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame.
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Face screw fastening
- Adapter fastening
 Trapezoid anchor fastening
- O Required face width /. . . . mm
- O Projecting frame
- O Frame for reconstruction
- OFixed side panel
- O Configuration in stainless steel
- O 4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- Wooden block frame, architrave 45/60 mm○ Solid wooden frame, 70/73 mm- Standard installation

- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 50 mm,

rebated meeting stiles with rabbet ledge on push side

- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
 Oboor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional
- wood panelling OArched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
 OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

- Optiphon 11/10 N (clear glass)
- OPhonstop 28/40 (clear glass)
- OPhonstop 28/40 (patterned glass 504)

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size . . ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames Three-roll-hinges, 2 pieces, hinge base 3D adjustable

Rebated

- VSX 7939/160, 3-d. Ovx 7939/100, 3-d.
- OVX 7939/120, 3-d. Ovx 7939/160, 3-d.

OAdditional 3rd hinge

O®

- OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107,160 VX. 3-d.
- Unrebated VSX 7729/160, 3-d.
- O VX 7729/100, 3-d.
- O VX 7729/120, 3-d. O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. \odot VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX)

Rebated

- VSX 7939/160 Ovx 7939/100 Ovx 7729/100
- Ovx 7939/120 O VX 7729/160 O BSW 060-22 VX Ovx 7939/160 OBSW 060-21 VX
- OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OAdditional 3rd hinge
- 0..... O Additional 3rd hinge

Hinge surface

- Galvanised
 - Brass-coloured
- Matt nickel-plated Stainless steel

- Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder,
- OLock according to DIN 18251, class 4
- Olnactive leaf with shot-bolt lock
- OTriple bolting
- Brass-plated

Special equipment

- Retractable bottom seal
- OElectrical strike
- OBlock lock
- OMagnetic contact
- OConcealed cable transition
- OSecurity bolts

- Unrebated VSX 7729/160
- Ovx 7729/120
- O VIELER ER.TB.160.332.S
- O Concealed hinges
 O HEWI B9107.160 VX

- Plastic material
- Colour-coated

- inactive leaf with concealed shot-bolt lock
- Forend surface Galvanised
- Stainless steel
- OClimate category III
- ODoor viewer
- OBolt contact
- OCable channel
- OKick plate (aluminium/stainless steel)



2-leaf door

Performance overview

SD 37

Main function



Sound-Insulation Rw,P = 37 dB



Models



14.00



14.10

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 1750-2750
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	811-2686 1718-2718
Din	Door leaf thickness	50
	Solid door	0
ion	Door with vision panel	0
urat	Style door (profile beads)	0
Configuration	Climate category II	•
S	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
	Unrebated	0
	Solid wall	0
<u></u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
ဖွ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
芷	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i



Standard On request



Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 42-2 FORM-Sound-Insulation-Door Model 6.00 / 6.10
Sound-Insulation Rw,P = 42 dB

 Survey report No. G 02 05 03.4, ABO Rosenheim

Optional function

- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 37 dB
- OBurglar-Protection WK 2

Dimensions

0		Throat opening
(D)	BR-width x	BR-height

Walls

wans
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wal
OGlazing Type 25 V
O Wooden elements
OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall: - Backbend 15 mm

- Backbend 9 mm

- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation Installation in hallways
- O Round-shaped frame
- OFace expansion
- O Decorative rebated frame, rebate depth mm
- O Quirk frame O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- O Required face width /. . . . mm
- O Projecting frame O Sports hall frame
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways
 Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame 0 ◎ №0

Door leaf

Door leaf thickness about 70 mm, meeting stiles double-rebated

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
 Stress group S (3)
- OStress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel
- OReversed door set

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge O.....

- Type of glass

 Phonstop 31/45 GH (clear glass)

 O Phonstop 31/45 GH (patterned glassglas 504)

Configuration

- **O**Standard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL) 0.8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

- Rebated/Double-rebated for Rw,P = 45/42 dB
 Ovx 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB

 VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Unrebated

- VSX 7729/160, 3-d. VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges
- O HEWI B9107.160 VX, 3-d O Additional 3rd hinge

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Double-rebated

- for Rw,P = 45/42 dB ● VX 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB
- VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised - Plastic material
- Matt nickel-plated Stainless steel
- Brass-coloured

Locks ● Lock according to DIN 18251, class 3 with latch function, backset 65 mm,

- OLock according to DIN 18251, class 4
- Olnactive leaf with shot-bolt lock
- OTriple bolting

Forend surface

- Galvanised Stainless steel
- Brass-plated

Special equipment

- OElectrical strike
- OBlock lock OBolt contact
- OSecurity bolts

Wooden frames

Rebated/ Unrebated

- VSX 7729/160
- Ovx 7729/160
- O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O HEWI B9107.160 VX
- O Additional 3rd hinge Ò.....

- Colour-coated

prepared for profile cylinder, inactive leaf with concealed shot-bolt lock

- 2 retractable bottom seals
- OClimate category III
- ODoor viewer
- OMagnetic contact OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)



2-leaf door

Performance overview

SD 42

Main function



- \odot Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB

Optional function



O Burglar-Protection WK 2



Models



6.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 1750-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 1718-2968
Dir	Door leaf thickness	70
	Solid door	0
_	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
onfi	Climate category II	•
Ö	Climate category III	0
	Stress group E (4)	•

4	Rebated	0
Edge	Unrebated with jamb rebate	0
ш	Double-rebated	0
	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
တ္ဆ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
ı,	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i





Tender specifications

SD 50

Information

For additional technical information please see appendix, indicated with



SD 50-2 FORM-Sound-Insulation-Door Model 50-2.00

● Sound-Insulation Rw,P = 50 dB

• Survey report No. G 02 05 03.53, ABO Rosenheim

Optional function

- O Sound-Insulation Rw.P = 48 dB
- OBurglar-Protection WK 2

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall O Gasblock concrete wall (M) O Gypsum plasterboard wall (L) (F) OGlazing Type 25 V OWooden elements

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mmFloor recess 30 mm Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,

for gypsum plasterboard wall O Corner frame, sheet thickness 2 mm, 32/15 mm

- O Steel block frame
 Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion. O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width /. . . . mm
- OProjecting frame
- O Sports hall frame
- O Frame for reconstruction O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm O Solid wooden frame, 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O4-sided frame
- 0◎ ...

Door leaf

Door leaf thickness about 91 mm, meeting stiles double-rebated

- Double-rebated (D)
- Solid door, climate category II
- Stress group E (4)
- OStyle door with profile beads
- with frame-like and/or fielded additional wood panelling

OReversed door set

Edges

- Solid wood batten, white/red wood, 3-sided
 Concealed solid wood edge band, 2-sided
 OVeneer edge
- OPlastic material edge
- OColour-coated edge

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adiustable

Double-rebated

- VX 7939/160 N FD-4, 3-d.
- OBSW 090-21 VX FD, 3-d.
- OAdditional 3rd hinge
- OAdditional 4th hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable (VHX)

- Double-rebated ● VX 7939/160-4 N FD
- OBSW 090-21 VX FD
- OAdditional 3rd hinge
- OAdditional 4th hinge

Galvanised

- Stainless steel
- Matt nickel-plated Brass-coloured

- Lock according to DIN 18251, class 3 with latch function, backset 80 mm, prepared for profile cylinder, inactive leaf with concealed shot-bolt lock
- OLock according to DIN 18251, class 4
- Olnactive leaf with shot-bolt lock
- OTriple bolting

Locks

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

- 2 retractable bottom seals
- OClimate category III
- OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



50-2

2-leaf door

Performance overview

SD 50

Main function

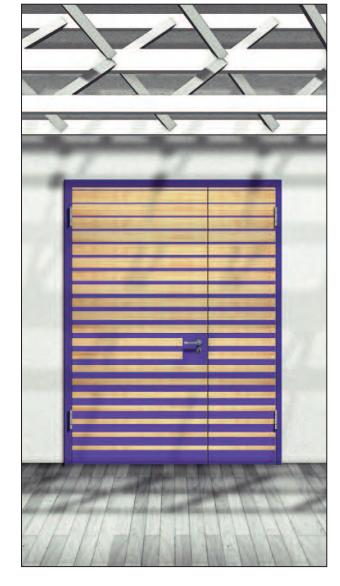


● Sound-Insulation Rw,P = 50 dB ○ Sound-Insulation Rw,P = 48 dB

Optional function



O Burglar-Protection WK 2



Models



50-2.00

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1500-3000 1750-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1406-2906 1703-2953
Dir	Door leaf thickness	91
u	Solid door	0
atio	Style door (profile beads)	0
Configuration	Climate category II	•
onfi	Climate category III	0
O	Stress group E (4)	•

Edge	Double-rebated	•
	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
ဖွ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with





Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 42-2 FORM-Sound-Insulation-Door Model 20.00 / 20.10

● Sound-Insulation Rw,P = 42 dB

Survey report No. 41 65 3 / 18, Müller BBM

Optional function

- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall O Gasblock concrete wall (M) O Gypsum plasterboard wall (L) (F) OGlazing Type 25 V OWooden elements OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mmFloor recess 30 mm Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

- O Steel block frame

 Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
 O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width /. . . . mm
- OProjecting frame
- O Frame for reconstruction
- O Fixed side panel
 O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- OWooden block frame, architrave 45/75 mm OSolid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 110 mm, meeting stiles double-rebated

- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
 with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Concealed solid wood edge band, 3-sided
- OColour-coated edge

Vision panel

Type of glass

Phonstop 37/49 GH (clear glass)

Configuration

- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass
- Glazing beads OSolid wood veneered
- OSolid wood

Surfaces

- Door leaf / Wooden frame **O**Veneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Double-rebated

- for Rw,P = 42 dB
- Ovx 7939/160 FD, 3-d. OBSW 060-21 VX FD, 3-d.
- for Rw,P = $37 \, dB / 32 \, dB$ ● VX 7939/160, 3-d.
- ORSW 060-21 VX 3-d OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.

OAdditional 3rd hinge

- VX 7729/160, 3-d. O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d.
 - O Concealed hinges

Unrebated

- O HEWI B9107.160 VX, 3-d.
 - O Additional 3rd hinge

- for Rw,P = 42 dB
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated
- Double-rebated
 - VX 7729/160
- VX 7939/160 FD O BSW 060-22 VX
- OBSW 060-21 VX FD OVIELER ER.TB.160 for Rw,P = $37/32 \, dB$ O Concealed hinges OVIELER ER.TB.160.332.S
- VX 7939/160 OHEWI B9107.160 VX O Additional 3rd hinge
- OBSW 060-21 VX OVIELER ER.TB.160.337.F O
- OHEWI B8107.160 VX

- Galvanised - Plastic material Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

- Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder, inactive leaf with concealed shot-bolt lock
- OLock according to DIN 18251, class 4
- Olnactive leaf with shot-bolt lock OTriple bolting
- Forend surface
- Galvanised
- Stainless steel - Brass-plated
- Special equipment
- 2 retractable bottom seals OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts OKick plate (aluminium/stainless steel)



2-leaf door

Performance overview

SD 42

Main function



- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB





Models



20.00



20.10

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1375-3000 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1281-2906 1703-3453
۵	Door leaf thickness	110
	Solid door	О
tion	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
Cor	Climate category II	•
	Stress group E (4)	•

Edge	Double-rebated	0
В	with double jamb rebate	О
	Solid wall	0
Walls	Gasblock concrete wall	О
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
ပ္ဆ	Wooden wrap-around frame	О
Frames	Wooden block frame	0
	Solid wooden frame	О
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i



Standard On request



Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-2 FORM-Sound-Insulation-Door Model 27.10

● Sound-Insulation Rw,P = 32 dB

Survey report No. 02 G 05 03.13,

Optional function

SD 37-2 FORM-Sound-Insulation-Door Model 27.10

O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB

Dimensions

					В	R	۱-۱	N	id	tŀ	า)	X					. BR-height
(2)														١.				Throat opening

Walls	
O Solid wall	(M)
O Gasblock concrete wall	(M)
OGypsum plasterboard wall	(L)
OGlazing Type 25 V	(F)
OWooden elements	
OSteel elements	

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

 Backbend 15 mm
 without floor recess Backbend 9 mm

- Floor recess 30 mm OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, Sheet thickness 2 mm, 32/17 mm

O Steel block frame

- Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion / mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

- Adapter fastening

Trapezoid anchor fastening

O Projecting frame

O Sports hall frame

O Required face width /. . . . mm

O Frame for reconstruction

O Fixed side panel O Configuration in stainless steel

O4-sided frame

OSheet thickness 2 mm

O Backbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

OWooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm respectively 70/95 mm

Standard installation

Installation in hallways

Installation in front of wall opening

Projecting installation

O Frame for reconstruction O Fixed side panel

O4-sided frame

Door leaf

Frame width 73/95 mm, meeting stiles rebated

- Rebated (F)

Unrebated with jamb rebate (S)

Solid wood framed door, climate category II

Safety glass

OSolid wood framed style door

with panel

with coffer

with panel version II

OReversed door set

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OVSG 8 mm (clear glass) ODSG 7 mm

OPhonstop 31/45 GH (clear glass)

Configuration

OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm door rebate dimension over 1100 mm with

bottom frieze 195 mm

Swithout middle frieze, minimum frame widths

side/top/bottom ≥ 105 mm

door rebate dimension over 1100 mm with

bottom frieze 195 mm,

on request with cross bar $\geq 70 < 150$ mm, on

request with intermediate frieze \geq 150 < 280 mm ♠...../..../..../...
ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

OVeneer

- Transparently coated

Stained/transparently coated

Untreated

OOn site coating/undercoating foil

OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

■ VSX 7939/160 3-d Ovx 7939/160, 3-d.

OBSW 060-21 VX, 3-d. OVIELER ER TR 160 337 F 3-d

OHEWI B8107.160 VX, 3-d.

OAdditional 3rd hinge O®..... Unrebated

■ VSX 7729/160 3-d

O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S. 3-d. O Concealed hinges

O HEWI B9107.160 VX, 3-d.

O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated

Unrebated

● VSX 7939/160 VSX 7729/160 Ovx 7939/160 Ovx 7729/160 OBSW 060-21 VX OBSW 060-22 VX

OVIELER ER.TB.160.337.F OVIELER ER.TB.160.332.S OHEWI B8107.160 VX O Concealed hinges

OAdditional 3rd hinge O HEWI B9107.160 VX Ο◎ O Additional 3rd hinge

Hinge surface Galvanised

Plastic material

Matt nickel-plated

- Brass-coloured

Stainless steel

- Colour-coated

Locks

● Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder

inactive leaf with concealed shot-bolt lock OLock according to DIN 18251, class 4

Olnactive leaf with shot-bolt lock OTriple bolting in the active leaf

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

Retractable bottom seal

OElectrical strike
OBlock lock

OBolt contact

OMagnetic contact OCable channel

OConcealed cable transition

OSecurity bolts



2-leaf door

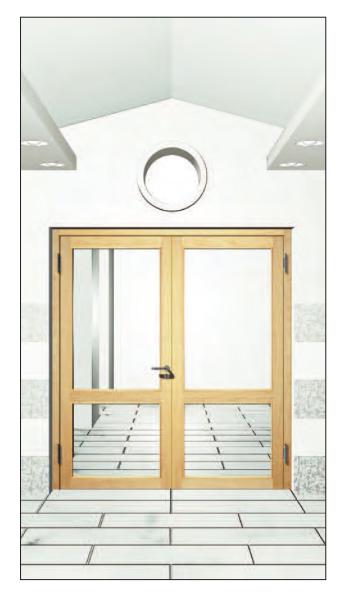
Performance overview

SD 32

Main function



- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- Sound-Insulation Rw,P = 32 dB



Models





Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 1750-3750
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 1718-3718
	Door leaf thickness	73/95
tion	Solid wood framed door	•
Configuration	Solid wood framed style door (coffer, panel, panel version II)	O
Cor	Climate category II	•
Edge	Rebated	0
Ed	Unrebated with jamb rebate	0

	Solid wall	О
S	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
တ္ဆ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
Щ.	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with [i]







27 N Slimline

2-leaf door

Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-2 FORM-Sound-Insulation-Door Model 27.10 Slimline

● Sound-Insulation Rw,P = 32 dB

• Survey report No. G 02 05 03.13, ABO Rosenheim

Optional function

O Sound-Insulation Rw,P = 37 dB

Dimensions

a	BR-width x	BR-height
a		Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wa
OF 30-Glazing Type 25 V
OWoodon olomonto

OSteel elements

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OSolid wooden frame, 70/95 mm
- Standard installation
- Installation in front of wall opening
- Projecting installation
- O Fixed side panel
- O4-sided frame

Installation in hallways

Door leaf

Frame width 73 mm, meeting stiles rebated

- Unrebated (S)
 - Solid wood framed door, climate category II
 - Fire protection glass
 - OSolid wood framed style door
 - with panel
 - with coffer
 - with panel version II

Vision panel

- Type of glass

 ●ESG 8 mm (clear glass)

 OESG 10 mm (clear glass)
- OVSG 10 mm (clear glass)
- OOPTILAM Phon 13.8 L

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 30/30/0 mm
- OOn middle frieze, side ≥ 75 mm
- **....**/..../ Owithout middle frieze, minimum frame widths
- side/top/bottom ≥30/30/0 mm, on request with bar \geq 55 < 150 mm, on request with intermediate frieze \geq 150 < 280 mm OOn middle frieze, side \geq 75 mm
-/..../ for bottom frieze widths = 0 mm, stainless steel guard rail required
- ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated
- O.....

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VX 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
 - Plastic material Matt nickel-plated - Brass-coloured
- Stainless steel
- Colour-coated

- Narrow style lock
- OPZ-lock according to DIN 18250, backset 65 mm, inactive leaf with concealed shot-bolt lock
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- Fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

9 mm spindle

- FS-handles, plastic material, round-shaped, with short backplate, RAL 9005 black
- OFS-Handles according to DIN 18273
- with short backplate
- with rosette
- with rectangular backplate with long backplate
- One-sided lever set
- OKnob-lever-set
- OPanic pushbar OSecurity handle-set
- OCode card handle-set

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Special equipment

- Retractable bottom seal
- OElectrical strike
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts



27 N Slimline

2-leaf door

Tender specifications

SD 32

Main function



- O Sound-Insulation Rw,P = 37 dB
- Sound-Insulation Rw,P = 32 dB



Models



27.10 SL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1375-2625 1750-2625
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	1148-2398 1699-2449
	Door leaf thickness	73
tion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	О
Cor	Climate category II	•
Edge	Unrebated	•

	Solid wall	0
Walls	Gasblock concrete wall	0
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	O
-rames	Solid wooden frame	0
Frai	4-sided frame	0



Sound-Insulation-Doors

For additional technical information please see appendix, indicated with i



Standard On request



2-leaf door, with top panel

Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-2 FORM-Sound-Insulation-Door Model 4.01 / 4.11 / 4.02 / 4.12 ● Sound-Insulation Rw,P = 32 dB

 Survey report No. G 02 05 03.2, ABO Rosenheim

Dimensions

...... Throat opening

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wal
O Solid gypsum wall
O Glazing Type 25 V
O.Wooden elements

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

Backbend 9 mm - Floor recess 30 mm Backbend 15 mmwithout floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

Standard installation

Installation in hallways

O Round-shaped frame

OFace expansion /. mm

O Decorative rebated frame, rebate depth mm

O Expansion joint frame

OFrame for installation in existing walls

Adapter fastening
Trapezoid anchor fastening (top panel)

O Projecting frame

O Sports hall frame

O Required face width /. . . . mm

O Frame for reconstruction

O Fixed side panel

O Configuration in stainless steel

O4-sided frame

OSheet thickness 2 mm

OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm

Standard installation
Installation in bellium

Installation in hallways

Installation in front of wall opening

Projecting installation

O Frame for reconstruction O Fixed side panel

O4-sided frame

Door leaf

Door leaf thickness about 50 mm,

rebated meeting stiles with rabbet ledge on push side

Unrebated (S)

Solid door, climate category II

 Stress group E (4)
 Oboor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

with panel

with coffer

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OESG 8 mm (patterned glass 200)

OVSG 8 mm (clear glass)

ODSG 7 mm

Configuration

OStandard

OFramed glazing
OAccording to DIN 68706
OVision panel, 215/1015 mm
OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel size mm

ODecorative beads on glass

Glazing beads

OSolid wood veneered OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Top panel

OTop panel

Counter-rebated with rabbet ledge

with transom

OFanlight with transom and security glass

Door leaf / Top panel / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Steel frames Three-roll-hinges, 2 pieces, on request

hinge base 3D adjustable

Rebated

VSX 7939/160, 3-d.

Ovx 7939/100, 3-d.

O®......

OVX 7939/120, 3-d. OVX 7939/160, 3-d.

OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX. 3-d. OAdditional 3rd hinge

Unrebated

VSX 7729/160, 3-d.

O VX 7729/120, 3-d.

O VX 7729/160, 3-d.

O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges

O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

0.....

Unrebated

Rebated ● VSX 7939/160 Ovx 7939/100

Ovx 7939/120 Ovx 7939/160 OBSW 060-21 VX

O VX 7729/160 O BSW 060-22 VX

OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OAdditional 3rd hinge Ō®

O Concealed hinges
O HEWI B9107.160 VX

O ◎

Hinge surface

- Plastic material

Matt nickel-plated

Stainless steel - Colour-coated

Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder

OLock according to DIN 18251, class 4 Olnactive leaf with shot-bolt lock

OTriple bolting

Galvanised

- Brass-plated

OClimate category III

ODoor viewer

OBlock lock

OMagnetic contact

OConcealed cable transition

Three-roll-hinges, 2 pieces, on request hinge base 3D adjustable (VHX)

VSX 7729/160 Ovx 7729/100 Ovx 7729/120

O VIELER ER.TB.160.332.S

Additional 3rd hinge

Galvanised

- Brass-coloured

inactive leaf with concealed shot-bolt lock

Forend surface

Stainless steel

Special equipment Retractable bottom seal

OElectrical strike

OBolt contact

OCable channel

OSecurity bolts OKick plate (aluminium/stainless steel)



2-leaf door, with top panel

Performance overview

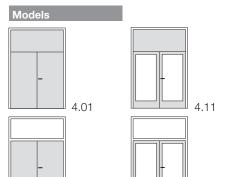
SD 32

Main function



Sound-Insulation Rw,P = 32 dB





Performance profile

4.02

(mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 2000-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	811-2686 1968-3468 1718-2718
Σį	Door leaf thickness	50
	Solid door	0
<u>_</u>	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
Julij	Climate category II	•
ŏ	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
Ed	Unrebated	O
	Solid wall	0
, n	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	О
	Glazing Type 25 V	0
	Steel frame	0
တ္တ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
Ŧ	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

For additional technical information please see appendix, indicated with i



4.12



2-leaf door, with top panel

Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



SD 32-2 FORM-Sound-Insulation-Door Model 26.01 / 26.11 / 26.02 / 26.12

● Sound-Insulation Rw,P = 32 dB

 Survey report No. G 02 05 03.8, ABO Rosenheim

Optional function

O Burglar-Protection WK 2

Dimensions

O Solid wall (M) O Gasblock concrete wall (M) (L) (F) O Gypsum plasterboard wall OGlazing Type 25 V

O Wooden elements OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall: - Backbend 15 mm

- Backbend 9 mm

- without floor recess
- Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion . . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening (top panel)
- O Projecting frame
- ORequired face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm respectively
- 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm, rebated meeting stiles with single rebate

- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
 OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel
- OReversed door set
- **Edges**

Solid wood batten, white/red wood, 3-sided

- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration

- **O**Standard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size . . ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

- OTop panel
- Counter-rebated with single rebate
- with transom
- OFanlight with transom and security glass

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm, on request

hinge base 3D adjustable Rebated/Double-rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107,160 VX, 3-d. OAdditional 3rd hinge O.
- Unrebated
- VSX 7729/160, 3-d.
- O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.
- OVIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
 O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Double-rebated

- VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OAdditional 3rd hinge O.
- - O 🕲
- Hinge surface
 - Plastic material
 - Brass-coloured

- with latch function, backset 65 mm, prepared for profile cylinder
- OTriple bolting

Forend surface

- Galvanised
- Stainless steel
- Brass-plated
- Retractable bottom sealElectrical strike
- ODoor viewer
- OBolt contact
- OSecurity holts
- OKick plate (aluminium/stainless steel)

Wooden frames

Unrebated

Rebated/

- VSX 7729/160
- OBSW 060-22 VX OVIELER ER.TB. 160.332.S O Concealed hinges
- O HEWI B9107,160 VX O Additional 3rd hinge

Galvanised Matt nickel-plated

- Colour-coated
- Stainless steel

Locks

● Lock according to DIN 18251, class 3

inactive leaf with concealed shot-bolt lock OLock according to DIN 18251, class 4 Olnactive leaf with shot-bolt lock

- Special equipment
- OBlock lock
- OMagnetic contact OCable channel
- OConcealed cable transition



Sound-Insulation-Doors

26 N

2-leaf door, with top panel

Performance overview

SD 32

Main function

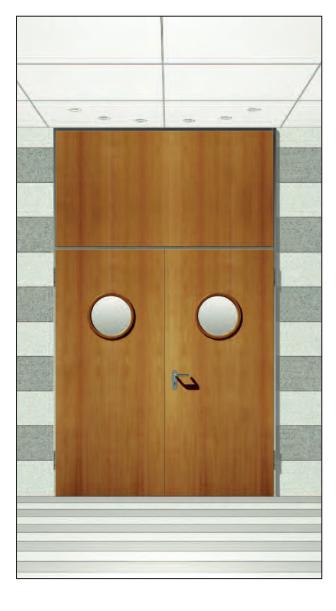


Sound-Insulation Rw,P = 32 dB

Optional function



O Burglar-Protection WK 2



Models 26.01 26.11 26.02 26.12

Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 2000-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	936-2936 1968-3468 1718-2968
٥	Door leaf thickness	70
	Solid door	0
_	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
onfi	Climate category II	•
ŏ	Climate category III	0
	Stress group E (4)	•

Super size: On request with a door leaf width of up to 2000 mm!

For additional technical information please see appendix, indicated with i Standard O On request

Rebated

Solid wall

Steel frame

Double-rebated

Unrebated with jamb rebate

Gasblock concrete wall

Glazing Type 25 V

Wooden block frame

Solid wooden frame

4-sided frame

Gypsum plasterboard wall

Wooden wrap-around frame





0

0

0

0

0

0

0

0

0

0

0



2-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 37-2 FORM-Sound-Insulation-Door Model 14.01 / 14.11 / 14.02 / 14.12

● Sound-Insulation Rw,P = 37 dB

 Survey report No. G 02 05 03.6, ABO Rosenheim

Dimensions

🕲 BR-width x BR-height Throat opening

O Gasblock concrete wall (M) OGypsum plasterboard wall (L) O Glazing Type 25 V (F) O Wooden elements

OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm Backbend 15 mm
 without floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

- Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion . .

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

OFrame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening (top panel) O Projecting frame

O Required face width / . . . mm
O Frame for reconstruction

O Fixed side panel

O Configuration in stainless steel

O4-sided frame

O Sheet thickness 2 mm

O Backbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

O Solid wooden frame, 70/73 mm

Standard installation

Installation in hallways
Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel O4-sided frame

Door leaf

Door leaf thickness about 50 mm,

rebated meeting stiles with rabbet ledge on push side

Unrebated (S)

Solid door, climate category II

Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

with frame-like and/or fielded additional

wood panelling

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge

OVeneer edge OPlastic material edge

OColour-coated edge

O.....

Vision panel

Type of glass

Optiphon 11/10 N (clear glass)

OPhonstop 28/40 (clear glass)

OPhonstop 28/40 (patterned glass 504)

Configuration

OStandard

OFramed glazing
OAccording to DIN 68706

OVision panel, 215/1015 mm

OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel size . . ODecorative beads on glass

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Top panel

OTop panel

Counter-rebated with rabbet ledge

with transom

OFanlight with transom and sound-insulation glass

Surfaces

Door leaf / Top panel / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable

Rebated

VSX 7939/160, 3-d.

Ovx 7939/100, 3-d. Ovx 7939/120, 3-d.

Ovx 7939/160, 3-d.

OBSW 060-21 VX, 3-d.
OVIELER ER.TB.160.337.F, 3-d.

OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

Unrebated

● VSX 7729/160, 3-d.

O VX 7729/100, 3-d.

O VX 7729/120, 3-d.

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

Ō®

OVIELER ER.TB.160.332.S. 3-d. O Concealed hinges

O HEWI B9107.160 VX, 3-d O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX) Rebated Unrebated

● VSX 7939/160 VSX 7729/160 Ovx 7939/100 Ovx 7939/120

Ovx 7729/100 Ovx 7729/120

O VX 7729/160 O BSW 060-22 VX Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX

O VIELER ER.TB.160.332.S O Concealed hinges
O HEWI B9107.160 VX

Additional 3rd hinge O ◎

Hinge surface

OAdditional 3rd hinge

Galvanised

- Plastic material

Matt nickel-plated - Brass-coloured Stainless steel - Colour-coated

 Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder, inactive leaf with concealed shot-bolt lock

OLock according to DIN 18251, class 4 Olnactive leaf with shot-bolt lock

OTriple bolting

Forend surface

Galvanised

Stainless steel - Brass-plated

Special equipment

 Retractable bottom seal OClimate category III

OElectrical strike

ODoor viewer OBlock lock

OBolt contact

OMagnetic contact OCable channel

OConcealed cable transition

OSecurity bolts OKick plate (aluminium/stainless steel)



2-leaf door, with top panel

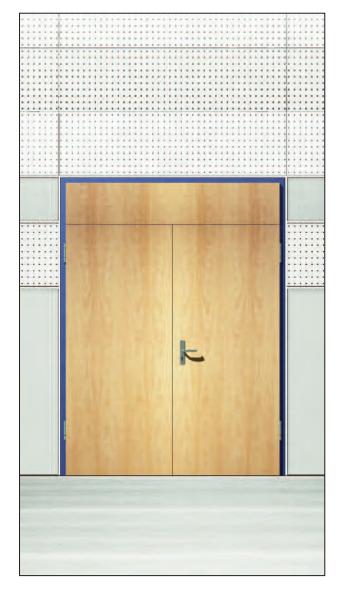
Performance overview

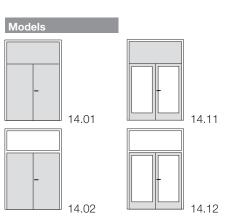
SD 37

Main function



Sound-Insulation Rw,P = 37 dB





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 2000-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	811-2686 1968-3468 1718-2718
Din	Door leaf thickness	50
	Solid door	O
ion	Door with vision panel	0
Configuration	Style door (profile beads)	О
Jfigi	Climate category II	•
S	Climate category III	О
	Stress group E (4)	•

Edge	Rebated	0
Ед	Unrebated	0
	Solid wall	0
Walls	Gasblock concrete wall	О
N N	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
ရွ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
뇹	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i







2-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 42-2 FORM-Sound-Insulation-Door Model 6.01 / 6.11 / 6.02 / 6.12

● Sound-Insulation Rw,P = 42 dB

 Survey report No. G 02 05 03.4, ABO Rosenheim

Optional function

- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 37 dB
- O Burglar-Protection WK 2

Dimensions

1					E	ś٢	۲-	W	/((at	n	Х					. BK-neignt
																	Throat opening

O Solid wall
OGasblock concrete wall
OGypsum plasterboard wa
OGlazing Type 25 V
OWooden elements

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey

(optional in black, white or brown)

Solid wall: - Backbend 9 mm Gypsum plasterboard wall: - Backbend 15 mm

- without floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame.
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening (top panel) O Projecting frame
 O Required face width /. . . . mm

- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- OWooden block frame, architrave 45/60 mm OSolid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm, meeting stiles double-rebated

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category IIStress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beadswith panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB with frame-like and/or fielded additional wood panelling
- ODoor with vision panel
- OReversed door set

Edges

● Solid wood batten, white/red wood, 3-sided OConcealed solid wood edge band, 2-sided

- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- О७.....

Vision panel

Type of glass

- Phonstop 31/45 GH (clear glass)
- OPhonstop 31/45 GH (patterned glassglas 504)

Configuration

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size . ODecorative beads on glass
- Glazing beads
- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

- Top panel OTop panel
- Counter-rebated and double-rebated
- OFanlight with transom and sound-insulation glass

Door leaf / Top panel / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated/Double-rebated for Rw,P = 45/42 dB

- VX 7939/160 FD, 3-d. OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB
- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge
- Unrebated
 - VSX 7729/160, 3-d.
 - O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. OVIELER ER.TB.160.332.S. 3-d.
- O Concealed hinges
- O HEWI B9107,160 VX, 3-d. O Additional 3rd hinge
- ○◎.....

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated/Double-rebated Unrebated for Rw,P = 45/42 dB • vsx 7729/160

- VX 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB
- VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX
- OVIELER ER.TB.160.337.F
- OHEWI B8107,160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated Stainless steel

- Colour-coated

Locks with latch function, backset 65 mm,

- inactive leaf with concealed shot-bolt lock OLock according to DIN 18251, class 4

OTriple bolting

- Forend surface
- Galvanised
- Brass-plated

- OClimate category III OElectrical strike
- ODoor viewer
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)

- Ovx 7729/160
- O BSW 060-22 VX O VIELER ER.TB.160.331.S
- O Concealed hinges
- O HEWI B9107,160 VX O Additional 3rd hinge
- O 🕲
- - Brass-coloured

● Lock according to DIN 18251, class 3 prepared for profile cylinder,

Olnactive leaf with shot-bolt lock

Stainless steel

- Special equipment
- 2 retractable bottom seals
- OBlock lock OBolt contact
- OSecurity bolts



Sound-Insulation-Doors

6 N

2-leaf door, with top panel

Performance overview

SD 42

Main function

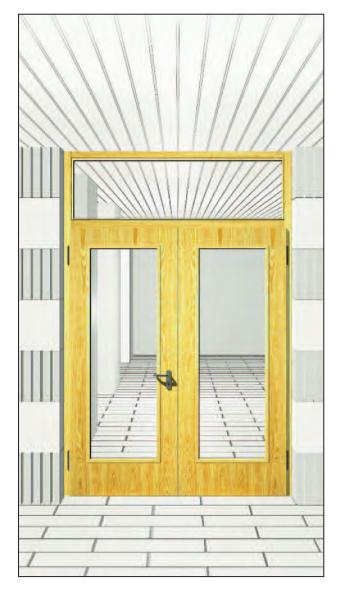


- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB

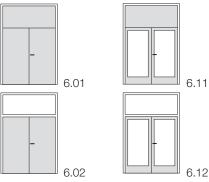
Optional function



O Burglar-Protection WK 2



Models





(mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 2000-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	936-2936 1968-3468 1718-2968
Din	Door leaf thickness	70
	Solid door	0
_	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	О
onfi	Climate category II	•
0	Climate category III	0
	Stress group E (4)	•

	Unrebated with jamb rebate	0
Edge	Rebated	0
"	Double-rebated	0
	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
	Steel frame	0
ပ္က	Wooden wrap-around frame	0
Frames	Wooden block frame	0
<u>r</u>	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i





2-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



SD 42-2 FORM-Sound-Insulation-Door Model 20.02 / 20.12

● Sound-Insulation Rw,P = 42 dB

 Survey report No. 47 65 3 / 18, Müller BBM

Optional function

OSound-Insulation Rw,P = 37 dB

O Sound-Insulation Rw,P = 32 dB

Dimensions

				Е	BF	₹-	W	/ic	dt	th	Х					. BR-h	ne	eight
																Throa	at	opening

Walle

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
OGlazing Type 25 V
OWooden elements
OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Floor recess 30 mm Backbend 15 mm
 without floor recess
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame.
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening (top panel)
- O Projecting frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm O Backbend up to 25 mm

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm OSolid wooden frame, 70/110 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Door leaf thickness about 110 mm, meeting stiles double-rebated

- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
 Oboor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
 with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

• Concealed solid wood edge band, 3-sided

OColour-coated edge

Vision panel

Type of glass

Phonstop 37/49 GH (clear glass)Configuration

- OStandard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Top panel

- OTop panel
- Counter-rebated and double-rebated
- with transom
- OFanlight with transom and sound-insulation glass

Surfaces

Door leaf / Top panel / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Double-rebated

for Rw,P = 42 dB● VX 7939/160 FD, 3-d.

OAdditional 3rd hinge

- OBSW 060-21 VX FD, 3-d.
- for Rw,P = 37 dB/32 dB■ VX 7939/160 3-d
- OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107 160 VX 3-d
- Unrebated
- VX 7729/160, 3-d. O BSW 060-22 VX 3-d
- OVIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges O HEWI B9107 160 VX 3-d
- O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Double-rebated Unrebated for Rw,P = 42 dB● VX 7729/160

- VX 7939/160 FD O BSW 060-22 VX OBSW 060-21 VX FD OVIELER ER.TB.160 for Rw,P = 37/32 dB O Concealed hinges OVIELER ER.TB.160.332.S
- VX 7939/160 O HEWI B9107.160 VX
- OBSW 060-21 VX O Additional 3rd hinge Ovieler er.tb.160.337.f O 🔊
- OHEWI B8107.160 VX
- OAdditional 3rd hinge

Hinge surface Galvanised Plastic material

Matt nickel-plated - Brass-coloured Stainless steel - Colour-coated

 Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder, inactive leaf with concealed shot-bolt lock

OLock according to DIN 18251, class 4 Olnactive leaf with shot-bolt lock

OTriple bolting

Forend surface

- Galvanised Stainless steel
- Brass-plated

Special equipment

- 2 retractable bottom seals
- OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



2-leaf door, with top panel

Performance overview

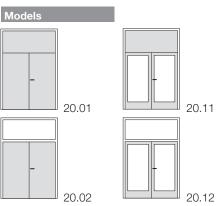
SD 42

Main function



- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1375-3000 2000-5000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1281-2906 1968-4953 1703-3453
Ē	Door leaf thickness	110
	Solid door	0
tion	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
Cor	Climate category II	•
	Stress group E (4)	•

a)	Double-rebated	0
<u> </u>	Double-repated	0
Edge	with double jamb rebate	0
	Solid wall	0
Walls	Gasblock concrete wall	О
Wa	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
ရွ	Wooden wrap-around frame	О
Frames	Wooden block frame	0
ᇤ	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i



Standard O On request



2-leaf door, with top panel

Tender specifications

SD 32

Information

For additional technical information please see appendix, indicated with



. BR-height

SD 32-2 FORM-Sound-Insulation-Door Model 27.11 / 27.12 O Sound-Insulation Rw,P = 32 dB

• Survey report No. G 02 05 03.13, ABO Rosenheim

Optional function

O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB

🐿 BR-width x

Dimensions

©	Throat opening
Walls	
O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wa	II (L)
O Glazing Type 25 V	(F)

OSteel elements Steel frames

O Wooden elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall OSteel wrap-around frame.
- for gypsum plasterboard wall
- O Corner frame, Sheet thickness 2 mm, 32/17 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame O Face expansion . .
- . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fasteningTrapezoid anchor fastening (top panel)
- OProjecting frame
- O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction O Fixed side panel
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- OWooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm respectively 95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Frame width 73/95 mm, meeting stiles rebated

- Rebated (F)
 - Unrebated with jamb rebate (S)
 - Solid wood framed door, climate category II
 - Safety glass
 - OSolid wood framed style door
 - with panel
 - with coffer
 - with panel version II
 - OReversed door set

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OVSG 8 mm (clear glass) ODSG 7 mm
- OPhonstop 31/45 GH (clear glass)

Configuration

OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm door rebate dimension over 1100 mm with bottom frieze 195 mm

- side/top/bottom ≥ 105 mm
- door rebate dimension over 1100 mm with
- bottom frieze 195 mm, on request with cross bar $\geq 70 < 150$ mm, on
- request with intermediate frieze ≥ 150 < 280 mm

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

- Top panel OTop panel
- Counter-rebated with single rebate
- with transom
- OFanlight with transom and security glass

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Rebated ● VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. ORSW 060-21 VX 3-d
- OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Unrebated

- VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O BSW 060-22 VX 3-d
- O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges O HEWI B9107 160 VX 3-d O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated Unrebated ● VSX 7939/160 VSX 7729/160
- Ovx 7939/160 Ovx 7729/160 OBSW 060-21 VX OBSW 060-22 VX
- OVIELER ER.TB.160.337.F OVIELER ER.TB.160.332.S OHEWI B8107.160 VX OAdditional 3rd hinge
 - O Concealed hinges O HEWI B9107.160 VX
- Ο◎ O Additional 3rd hinge 0.....
- Hinge surface
- Plastic material Galvanised Matt nickel-plated - Brass-coloured
 - Colour-coated Stainless steel

Locks

● Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder inactive leaf with concealed shot-bolt lock

- OLock according to DIN 18251, class 4 Olnactive leaf with shot-bolt lock
- OTriple bolting in the active leaf

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

- Retractable bottom seal
- OElectrical strike
 OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



2-leaf door, with top panel

Performance overview

SD 32

Main function



- O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



Models 27.11 27.11 27.12 27.12

Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 2000-5000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	936-2936 1968-4968 1718-3718
٦	Door leaf thickness	73/95
tion	Solid wood framed door	•
Configuration	Solid wood framed style door (coffer, panel, panel version II)	O
Cor	Climate category II	•
ge	Rebated	0
Edge	Unrebated with jamb rebate	О

	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
န	Wooden wrap-around frame	О
Frames	Wooden block frame	0
Ē	Solid wooden frame	0
	4-sided frame	0



Sound-Insulation-Doors

Information

For additional technical information please see appendix, indicated with i



Standard O On request



Fixed glazing

Tender specifications

For additional technical information please see appendix, indicated with



SD 42-1 FORM-Sound-Insulation-Door/ FORM-Sound-Insulation-Glazing Type 25 V

● Sound-Insulation Rw,P = 42 dB

• Survey report No. G 02 05 03.11, ABO Rosenheim

Optional function

- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB
- OBurglar-Protection WK 2
- O Burglar-Protection WK 3

Dimensions

🕲 BR-width x BR-height

- O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall
- O Wooden beams OWooden elements
- O Steel elements

Fixed glazing

Profile cross-section ≥ 55/73/95 mm

One-sided glazing bead

○ Infill

- Phonstop 31/45 GH (clear glass)
- Phonstop 31/45 GH (patterned glass 504)
- Coffer
- Panel version II

- Segmentationwithout partitioningHorizontal partitioning
- Horizontal partitioning
- Vertical partitioning
- Cross partitioning

Surfaces

- O Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- O High pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil Colour-coated

Special equipment

- O Crash-Protection-Glazing (according to TRAV)
 O Corner posts (angle 60-180°)
- O Supporting posts
- O Wall joint posts
- O Wall joint mouldings
- O Patched cross bars
- O Actual cross bars
- O Additional wood panelling

Combinations SD Sound-Insulation-Doors with solid wooden frame combination of SD-Glazing Type 25 V

- O SD 32-1, Type 3 N
- O SD 37-1, Type 13 N
- O SD 32-1, Type 16 N

- O SD 32-1, Type 16 N O SD 42-1, Type 5 N O SD 42-1, Type 35 N O SD 32-1, Type 25 N O SD 32-1, Type 25 N Slimline

- O SD 32-2, Type 4 N
 O SD 37-2, Type 14 N
 O SD 37-2, Type 14 N
 O SD 32-2, Type 26 N
 O SD 42-2, Type 6 N
 O SD 32-2, Type 27 N
 O SD 32-2, Type 27 N Slimline

Segmentation examples

Segmentation 1 (on request with cross bars) with top panel



Segmentation 2 (on request with cross bars) with side panel





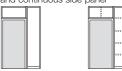
Segmentation 3 (on request with cross bars) with continuous

top panel and side panel



- Segmentation 4 (on request with cross bars) with top panel

and continuous side panel



Segmentation 5 (on request with cross bars) with side panel on both sides





Segmentation 6 (on request with cross bars) with continuous top panel and side panel on both sides





Segmentation 7 (on request with cross bars) with top panel and continuous side panel hinge





Segmentation 8 (on request with cross bars) Configuration according to drawing





25 V

Fixed glazing

Performance overview

SD 42

Main function



- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Optional function



O Burglar-Protection WK 2O Burglar-Protection WK 3

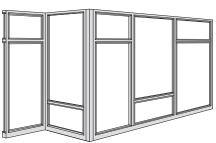
Example of use

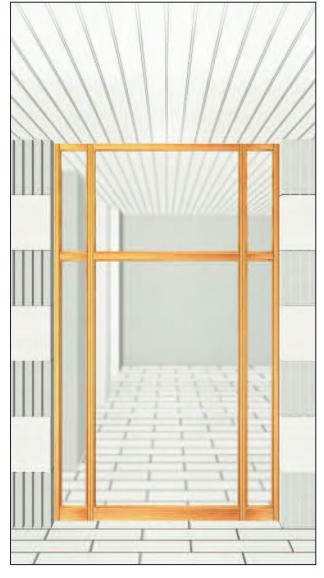
Fixed glazing for internal areas

Depending on the pane size (max. 1400 x 3500 mm) the arrangement of the cross bars is possible in any layout.

The single panes can be arranged vertically, on request either in portrait format or landscape format.

Due to static requirements additional posts and bars may be necessary.





Performance profile

Solid wall Basic dimension BR-width Basic dimension BR-height	unlimited max. 5000
Gypsum plasterboard wall Basic dimension BR-width Basic dimension BR-height	max. 4000 max. 4500
Profile cross-section	≥ 55/73/95
Glass	•
Panel	0
Coffer	0
Panel version II	0
Solid wall	О
Gasblock concrete wall	0
Gypsum plasterboard wall	0
	Basic dimension Basic dimension Basic dimension BR-height Basic dimension Basic dimension Basic dimension BR-width BR-height BR-height Profile cross-section Glass Panel Coffer Panel version II Solid wall Gasblock concrete wall

	SD 32-1	Type 3 N	0
	SD 37-1	Type 13 N	0
	SD 32-1	Type 16 N	0
set	SD 42-1	Type 5 N	0
door me)	SD 42-1	Type 35 N	0
/ith o	SD 32-1	Type 25 N	O
In combination with door (in solid wooden frame)	SD 32-1	Type 25 N Slimline	О
inati	SD 32-2	Type 4 N	О
omb s ui)	SD 37-2	Type 14 N	0
lu c	SD 32-2	Type 26 N	0
	SD 42-2	Type 6 N	0
	SD 32-2	Type 27 N	0
	SD 32-2	Type 27 N Slimline	0



Sound-Insulation-Glazing

Information

For additional technical information please see appendix, indicated with



Standard	O On request
• Stariuaru	O On request

Burglar-Protection-Doors Content

Function	Configuration	Type	Page
WK 2		1 N	314
WK 2 / WK 3		3 N	316
WK 2		13 N	318
WK 2 / WK 3		16 N	320
WK 4	1-leaf door	16 N	322
WK 2 / WK 3		5 N	324
WK 2 / WK 3		17 N	326
WK 2 / WK 3		50-1	328
WK 2 / WK 3		35 N	330
WK 2		3 N	332
WK 2		13 N	334
WK 2 / WK 3	d 1	16 N	336
WK 2 / WK 3	1-leaf door with top panel	5 N	338
WK 2		17 N	340
WK 2 / WK 3		35 N	342
WK 2 / WK 3		26 N	344
WK 2 / WK 3	2-leaf door	6 N	346
WK 2 / WK 3		50-2	348
WK2/WK3	O loof door with top is a sal	26 N	350
WK 2 / WK 3	2-leaf door with top panel	6 N	352
WK2/WK3	Fixed glazing	25 V	354



Burglar-Protection

According to DIN V ENV 1627

Regulations and requirements

DIN V ENV 1627

The DIN V ENV 1627 defines terms and test criterias for burglar protection construction elements. The classification is grouped assendingly in six steps from WK1-WK6. For the testing purposes a distinction is made in terms of attack side, push or pull side. The standard is valid for 1- and 2-leaf doors with optional side and/or top panels, as well as glazings. The desired Burglar-Protection is only guaranteed if the element is in a closed, bolted and locked state.

Burglar protection construction elements according to DIN V ENV 1627 are to be used where the unauthorised intrusion into a to protected room or area should be hindered by mechanical safeguarding. Electronic components such as for example bolt contacts or alarm glazings can enhance the Burglar-Protection additionally, but have no influence on the classification according to DIN V ENV 1627.

Schörghuber Burglar-Protection elements ar approved for the installation in masonry, concrete and gypsum plasterboard walls, whereat certain normative predefined minimum thicknesses apply:

	Masonry	Concrete	Gypsum plasterboard wall
WK2	115 mm	100 mm	100 mm
WK3	115 mm	120 mm	100 mm
WK4	240 mm	140 mm	

Burglar-Protection-Doors form a unit of frame, door leaf and the security fittings necessary for the door function.

The production of Burglar-Protection-Doors is realised by an independent inspection body, accredited by the certification body DIN CERTCO, according to the guidelines of the classification report. The fulfillment of the requirements at the time of delivery has to be proven by the attachment of a label on the intrusion hindering structural element (door, glazing) and the unrequested submission of the DIN CERTCO certificate.

DIN EN 1627

Presumably in 2011 the pre-norm DIN V ENV 1627 is replaced by the DIN EN 1627. The requirements compared to the pre-norm will change. In order to clarify the difference the classification steps have been renamed with RC1 – RC6. An automatic transfer of classifications according to the pre-norm DIN V ENV 1627 is not possible. Corresponding to a correlation table the certificates of elements approved and classified to the standards WK1 – WK6 are still valid certifications of intrusuion hindering structural elements. Certification reports according to DIN V 18103 with the classifications ET1 – ET3 can not be used anymore.

Independently of this Schörghuber Burglar-Protection-Doors are approved and certified according to the new and in the future valid DIN EN 1627.

CE label

With the introduction of product standards for interior doors (EN 14351-2, publication expected at the end of 2011) and Exterior doors / windows EN 14351-1 (since 02-2010), doors have to be marked with the conformity label "CE". On the CE conformity certification the producer verifies that the relevant element fulfills the performance characteristics according to the stated classifications at the time of delivery.





Burglar-Protection-Doors

Configuration options

WK Solid door

1-leaf door



1-leaf door, with top panel



2-leaf door



2-leaf door, with top panel





1-leaf door



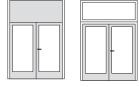
1-leaf door, with top panel



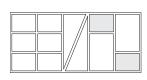
2-leaf door



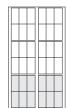
2-leaf door, with top panel

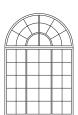


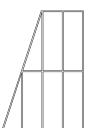
WK Fixed glazing













WK Fixed glazing

In combination with WK-1/WK-2 Burglar-Protection-Door



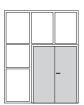














Tender specifications

For additional technical information please see appendix, indicated with



WK 2-1 FORM-Burglar-Protection door Model 1.00

Burglar-Protection WK 2

Approval

- DIN CERTCO Reg.-No.: in preparation attack direction
 - Push-side

Optional function

O Sound-Insulation Rw,P = 32 dB

BR-width x BR-height Throat opening

O Solid wall ≥ 115 mm O Concrete wall ≥ 100 mm

Standard rebate, galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm
- Backbend 15 mm - without floor recess
- O Steel wrap-around frame, for solid wall O Corner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🐿 / mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Required face width 🕲 . . . /. . . mm
- O Design in stainless steel
- O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O4-sided frame

Thickness of door leaf about 42 mm

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with vision panel
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Surfaces

Door leaf / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable Unrebated

VS 8949

0.....

O Additional 3rd hinge

- Rebated
- VS 8939
- VS 8939 VN 8938 VSX 7939/160, 3-d. VX 7939/160, 3-d. BSW 060-21 V, 3-d. VIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX. 3-d.
- OAdditional 3rd hinge
- O®

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated
- VSX 7939/160
- Ovx 7939/160 OBSW 060-21 vx OVIELER ER.TB. 160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge
- O®
- VSX 7729/160 VX 7729/160 DSW 060-22 VX
 - O VIELER ER.TB.160.332.S O HEWI B9107.160 VX O Additional 3rd hinge

Unrebated

Hinge surface - Galvanised

- Plastic material
- Matt nickel-plated Stainless steel
- Brass-coloured Colour-coated

○◎....

- Lock according to DIN 18251, class 4 with latch function, backset 65 mm, prepared for profile cylinder
- OPanic lock
- OSelf-bolting panic lock
 DORMA SVP 2 . . . up to 6 . . .
- OTriple bolting
- OTriple bolting with panic function Forend surface

- Galvanised Stainless steel
- Brass-plated

Handles

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Special equipment

- OClimate category III
- ODoor viewer
- ORetractable bottom seal
- standard for Sound-Insulation function OSecurity bolts
- OKick plate (aluminium/stainless steel)



Performance overview

RC2

WK 2

Main function



Burglar-Protection WK 2

Optional function



O Sound-Insulation Rw,P = 32 dB



Models



1.00

Performance profil

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1250 1750-2250
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1186 1718-2218
۵	Door leaf thickness	42
u	Solid door	0
Configuration	Style door (profile beads)	0
gur	Climate category II	•
onfi	Climate category III	0
S	Stress group E (4)	•

Edge	Rebated	О
В	Unrebated	0
Walls	Solid wall	•
	Steel frame	0
Frames	Wooden wrap-around frame	0
Frai	Wooden block frame	О
	4-sided frame	0
Attack direction	Push side	•



Burglar-Protection-Doors

For additional technical information please see appendix, indicated with i



Standard O On request



Tender specifications

For additional technical information please see appendix, indicated with



WK 2-1 FORM-Burglar-Protection-Door Model 3.00

Burglar-Protection WK 2

Approval

- DIN CERTCO Reg.-No.: 4T050
- Attack direction Push side
- O Pull side

Optional function

- OBurglar-Protection WK 3 (M 3)
- O Sound-Insulation Rw,P = 32 dB
- O Radiation-Protection
- O Bullet-Resistant M 3

Dimensions

BR-width xBR-heightThroat opening

O Masonry ≥ 100 mm O Concrete OGypsum plasterboard wall ≥ 100 mm OBurglar-Protection-Glazing Type 25 V

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

- Gypsum plasterboard wall:
- Backbend 9 mm Backbend 15 mm Without floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- O Steel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion . .
- O Decorative rebated frame, rebate depth mm O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- O Projecting frame
- O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Wooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame
- O 🕲

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

- VS 8939 **O**VN 8938
- OVSX 7939/160, 3-d. OVX 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F. 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- Rebated
- VSX 7939/160 Ovx 7939/160 OBSW 060-21 VX
- OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge
- O.
- VSX 7729/160
- O VX 7729/160

Unrebated

VS 8949

O VN 8948

O VSX 7729/160, 3-d. O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

O Additional 3rd hinge

O VIELER ER.TB.160.332.S, 3-d. O HEWI B9107.160 VX, 3-d.

- O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O HEWI B9107.160 VX
- O Additional 3rd hinge

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated Stainless steel
- Brass-coloured Colour-coated

RC2 / RC3 WK 2 / WK 3

Locks

- Lock according to DIN 18251, class 4 with latch function, backset 65 mm, prepared for profile cylinder
- OPanic lock
- OSelf-bolting panic lock DORMA SVP 2 . . . up to 6 . . .
- OTriple bolting
- OTriple bolting with panic function

Forend surface

- Galvanised
- Stainless steel Brass-plated

Handles

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Special equipment

- OClimate category III
 OLead inlay for Radiation-Protection up to 4 mm
- ODoor viewer
- OElectrical strike
- ORetractable bottom seal
- standard for Sound-Insulation function
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



1-leaf door

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



- Burglar-Protection WK 2
- O Burglar-Protection WK 3 (M 3)

Optional function



O Sound-Insulation Rw,P = 32 dB



O Radiation-Protection



O Bullet-Resistant M 3



Models



3.00

Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	625-1250 1750-2250
	Clear passage LD-width Clear passage LD-height	561-1186 1718-2218
	Door leaf thickness	50
Configuration	Solid door	0
	Style door (profile beads)	0
	Climate category II	•
	Climate category III	0
	Stress group E (4)	•

Edge		Rebated	0
		Jnrebated	0
Walls	-	Solid wall	•
		Gypsum plasterboard wall	О
		Glazing Type 25 V	0
S	-	Steel frame	O
	,	Wooden wrap-around frame	0
Frames	,	Wooden block frame	O
ᇤ		Solid wooden frame	0
		4-sided frame	0
Attack direction		Push side	•
		Pull side	0



Burglar-Protection-Doors

For additional technical information please see appendix, indicated with i



Standard On request



Tender specifications

Information

For additional technical information please see appendix, indicated with



WK 2-1 FORM-Burglar-Protection-Door Model 13.00

Burglar-Protection WK 2

- DIN CERTCO Reg.-No.: 4T050 Attack direction
 - Push side O Pull side

Optional function

- O Sound-Insulation Rw,P = 42 dB
- Sound-Insulation Rw,P = 37 dB
- O Radiation-Protection

Dimensions

Walls

≥ 115 mm O Concrete ≥ 100 mm OGypsum plasterboard wall ≥ 100 mm O Burglar-Protection-Glazing Type 25 V

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 15 mm
 without floor recess
- Backbend 9 mm Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame OFace expansion. . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening Trapezoid anchor fastening
- OProjecting frame
- O Sports hall frame
- O Required face width. . . . /. . . . mm
- O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

318

- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame
- ○◎ ...

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames*

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

● VS 8939 **O**VN 8938

OVSX 7939/160, 3-d. OVX 7939/160, 3-d.

OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F. 3-d.

OHEWI B8107.160 VX, 3-d.

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated

- VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX
- OAdditional 3rd hinge O.© . . .
- Unrebated ● VSX 7729/160
- O VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S
 - O HEWI B9107.160 VX O Additional 3rd hinge
- Hinge surface
- Galvanised
- Plastic material

Unrebated

VS 8949

O VN 8948

O VSX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

O Additional 3rd hinge

O VIELER ER.TB.160.332.S, 3-d. O HEWI B9107.160 VX, 3-d.

O 🕲

Matt nickel-plated Brass-coloured Stainless steel Colour-coated

Locks

- Lock according to DIN 18251, class 4 with latch function, backset 65 mm, prepared for profile cylinder
- OPanic lock
- OSelf-bolting panic lock DORMA SVP 2 . . . up to 6 . . .
- OTriple bolting
- OTriple bolting with panic function

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Special equipment

- Retractable bottom seal
- OClimate category III
 OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike
- ODoor viewer
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

for configuration Rw,P = 42 dB

equipped with FD-hinge



1-leaf door

Performance overview

RC2

WK 2

Main function



Burglar-Protection WK 2

Optional function



- Sound-Insulation Rw,P = 37 dB
 Sound-Insulation Rw,P = 42 dB

O Radiation-Protection



Models



13.00

Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	500-1250 1750-2250
	Clear passage LD-width Clear passage LD-height	436-1186 1718-2218
	Door leaf thickness	50
Configuration	Solid door	0
	Style door (profile beads)	0
	Climate category II	•
	Climate category III	0
	Stress group E (4)	•

<u>e</u>	Rebated	0
Edge	Unrebated	0
Walls	Solid wall	•
	Gypsum plasterboard wall	О
	Glazing Type 25 V	0
Frames	Steel frame	0
	Wooden wrap-around frame	0
	Wooden block frame	O
	Solid wooden frame	0
	4-sided frame	O
Attack direction	Push side	•
	Pull side	0



Burglar-Protection-Doors

Information

For additional technical information please see appendix, indicated with i





Tender specifications

For additional technical information please see appendix, indicated with

WK 2-1 / WK 3-1 FORM-Burglar-Protection-Door Model 16.00 / 16.10

Burglar-Protection WK 3

- DIN CERTCO Reg.-No.: 4T053 (WK 3) Attack direction
 - Push side
 - O Pull side
- ODIN CERTCO Reg.-No.: 4T051 (WK 2)
- Attack direction O Push side
- O Pull side

Optional function

- O Burglar-Protection WK 2
- O Sound-Insulation Rw,P = 32 dB O Radiation-Protection

Dimensions

BR-width xBR-height 🕲 Throat opening

- O Masonry > 115 mm
- ≥ 120 mm (WK 3) O Concrete ≥ 100 mm (WK 2)
- OGypsum plasterboard wall
- O Burglar-Protection-Glazing Type 25 V

Steel frames

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

- Gypsum plasterboard wall:
- Backbend 15 mm - Backbend 9 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion / mm
 O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
 O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm respectively
- 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O4-sided frame
- ○◎

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
- OSolid door, climate category III

 Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
 OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

- Allstop P6B-10 (clear glass)
 OAllstop P4A-10 (clear glass)

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated/Double-rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated/Double-rebated Unrebated ● VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX

Additional 3rd hinge

O Additional 3rd hinge

Unrebated

VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S. 3-d.

O HEWI B9107.160 VX, 3-d.

- VSX 7729/160 O VX 7729/160 O BSW 060-22 VX
- O VIELER ER.TB.160.332.S O HEWI B9107,160 VX O Additional 3rd hinge

RC2 / RC3 WK 2 / WK 3

Hinge surface

- Plastic material Galvanised
- Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

- OLock according to DIN 18251, class 4 (WK 2)

- Galvanised

Handles

OSecurity knob-lever set, long backplate,

Handle surface

- Aluminium
- Stainless steel Plastic material

- Security bolts

- ODoor viewer
- (standard for Sound-Insulation function)
- OBlock lock
- OMagnetic contact
- OCable channel
- OConcealed cable transition

- Triple bolting, backset 65 mm, prepared for profile cylinder
- OTriple bolting with panic function
- OPanic lock (WK 2)
 OSelf-bolting panic lock
 DORMA SVP 2 . . . up to 6 . . . (WK2)
- Forend surface

- Stainless steel
- Brass-plated
- one-sided fixed knob, class ES 1, ES 2 or ES 3

- OLead inlay for Radiation-Protection up to 4 mm
 OElectrical strike (WK 2)
- ORetractable bottom seal
- OSill seal with aluminium threshold
- OBolt contact
- OKick plate (aluminium/stainless steel)



1-leaf door

Performance overview

RC2/RC3 WK2/WK3

Main function



Burglar-Protection WK 3Burglar-Protection WK 2

Optional function



O Sound-Insulation Rw,P = 32 dB



O Radiation-Protection

Models



16.00



16.10



Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 1750-2500
	Clear passage LD-width Clear passage LD-height	561-1250 1718-2468
	Door leaf thickness	70
Configuration	Solid door	0
	Door with vision panel	0
	Style door (profile beads)	0
	Climate category II	•
	Climate category III	0
	Stress group E (4)	0

Edge	Rebated	0
	Unrebated with jamb rebate	О
ш	Double-rebated	0
Walls	Solid wall	•
	Gypsum plasterboard wall	0
>	Glazing Type 25 V	0
	Steel frame	0
Se	Wooden wrap-around frame	О
Frames	Wooden block frame	0
ᇿ	Solid wooden frame	0
	4-sided frame	0
Attack direction	Push side	•
	Pull side	0



Burglar-Protection-Doors

Information

For additional technical information please see appendix, indicated with



Standard On request



Tender specifications

Models

WK 4-1 FORM-Burglar-Protection-Door Model 16.00

Burglar-Protection WK 4

Approval

- DIN CERTCO Reg.-No.: 4T092 Attack direction
 - Push side

Optional function

- O Sound-Insulation Rw,P = 32 dB
- O Radiation-Protection

Dimensions

🕲 Throat opening

O Masonry ≥ 240 mm O Concrete ≥ 140 mm

Galvanised and undercoated, sheet thickness 2,0 mm, rebate width 30 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Backbend 9 mmFloor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OCorner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Face expansion . . .
- O Decorative rebated frame, rebate depth mm
- O Expansion joint frame
- O Frame for installation in existing walls
 Adapter fastening
 Trapezoid anchor fastening

- O Projecting frame
- O Required face width /. . . . mm
- OFrame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- O Backbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Rebate width 30 mm, 3-sided colour-coordinated circumferential special gasket grey (optional in black, white or brown)

- OSolid wooden frame, 75/90 mm
- Standard installation
 Installation in hallway Installation in hallways
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- OSolid door, climate category III
- Stress group E (4)

 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

Edges

- Veneer edge
- OColour-coated edge
- O.....

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated/Double-rebated

- VSX 7939/160, 3-d. OVX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX. 3-d.
- OAdditional 3rd hinge
 OS Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Unrebated

Rebated/Double-rebated

- VSX 7939/160
- Ovx 7939/160
- OBSW 060-21 VX
- OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX
- OAdditional 3rd hinge
- O
- Hinge surface
- Galvanised - Stainless steel
 - Matt nickel-plated
- VSX 7729/160

Unrebated

● VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

O Additional 3rd hinge

O ◎

OVIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX, 3-d.

- Ovx 7729/160
- O BSW 060-22 VX
- O VIELER ER.TB.160.332.S
- O HEWI B9107.160 VX
- O Additional 3rd hinge
- Plastic material - Brass-coloured - Colour-coated

Locks

Triple bolting, hook lock backset 80 mm prepared for profile cylinder

Forend surface

- Galvanised
- Stainless steel

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- ○◎.....

Special equipment

- Hinge edge safety device
- OLead inlay for Radiation-Protection up to 4 mm
- O Door viewer
- ORetractable bottom seal

(standard for Sound-Insulation function)

- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)



Burglar-Protection-Doors

16 N

1-leaf door

Performance overview

RC4 WK 4

Main function



Burglar-Protection WK 4

Optional function



O Sound-Insulation Rw,P = 32 dB



O Radiation-Protection



Models



16.00

Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	689-1306 1782-2280
	Clear passage LD-width Clear passage LD-height	539-1156 1707-2203
	Door leaf thickness	70
_	Solid door	0
atio	Style door (profile beads)	0
gur	Climate category II	•
Configuration	Climate category III	0
	Stress group E (4)	0

Edge	Rebated	0
	Unrebated with jamb rebate	О
Walls	Solid wall	•
Frames	Steel frame	0
	Solid wooden frame	0
	4-sided frame	О
Attack direction	Push side	•



Information

For additional technical information please see appendix, indicated with i



Standard O On request



Tender specifications

For additional technical information please see appendix, indicated with



WK 2-1 / WK 3-1 FORM-Burglar-Protection-Door Model 5.00 / 5.10

Burglar-Protection WK 3

Approval

- DIN CERTCO Reg.-No.: 4T053 (WK 3)
 - Attack direction
 - Push side
- O Pull side ODIN CERTCO Reg.-No.: 4T051 (WK 2)
- Attack direction
 - O Push side O Pull side

Optional function

- OBurglar-Protection WK 2
- O Sound-Insulation Rw,P = 45 dB

 Sound-Insulation Rw,P = 42 dB

 O Sound-Insulation Rw,P = 37 dB
- O Radiation-Protection

Dimensions

					Е	3F	₹-	W	/io	dt	h	Х					. BR-height
																	Throat opening

Walls

- O Masonry ≥ 115 mm
- ≥ 120 mm (WK 3) O Concrete
 - ≥ 100 mm (WK 2)
- O Gypsum plasterboard wall ∠ 100 mm
- O Burglar-Protection-Glazing Type 25 V

Steel frames

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm
- Backbend 15 mmwithout floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall O Corner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- O Backbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm respectively
- 70/95 mm
- Standard installation Installation in hallways
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)

- Solid door, climate category II
 Stress group E (4)
 Door with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O....

Vision panel

Type of glass

- Allstop P6B GH (clear glass)
- OAllstop P4A GH (clear glass)

Configuration

- OStandard OFramed glazing
- OAccording to DIN 68706 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Rebated/Double-rebated for Rw,P = 42/45 dB • VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB
- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX. 3-d. OAdditional 3rd hinge
- VSX 7729/160, 3-d.

Unrebated

- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
 O VIELER ER.TB.160.332.S, 3-d.
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge O 🕲

RC2 / RC3 WK 2 / WK 3

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

Rebated/ Double-rebated

- Ovx 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB
- VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX
- OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge

Hinge surface

- Galvanised - Plastic material
- Matt nickel-plated
 - Brass-coloured
 - Colour-coated

Locks

- Triple bolting, backset 65 mm,
- prepared for profile cylinder
- OSelf-bolting panic lock
- DORMA SVP 2 . . . up to 6 . . . (WK2)

- Galvanised
- Stainless steel Brass-plated

OSecurity knob-lever set, long backplate, one-sided fixed knob,

class ES 1, ES 2 or ES 3

- Aluminium Stainless steel
- Plastic material

- Special equipment

- ODoor viewer
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)

for Rw,P = 42 dB

- O BSW 060-22 VX O VIELER ER.TB.160.332.S O HEWI B9107.160 VX

VSX 7729/160

O VX 7729/160

- O Additional 3rd hinge

Stainless steel

- OTriple bolting with panic function
 OLock according to DIN 18251, class 4 (WK 2)
- OPanic lock (WK 2)

Forend surface

Handles

Handle surface

- Retractable bottom seal
- Security bolts OClimate category III
- OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike
- OBlock lock



1-leaf door

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



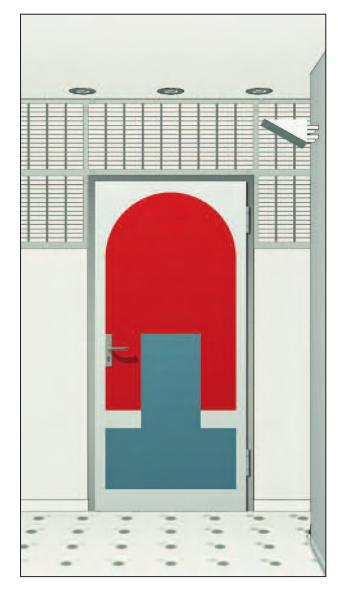
- Burglar-Protection WK 3 O Burglar-Protection WK 2
- Optional function



- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB



O Radiation-Protection



Models



5.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 1750-2500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1250 1718-2468
۵	Door leaf thickness	70
	Solid door	0
ion	Door with vision panel	0
Configuration	Style door (profile beads)	0
ηfig	Climate category II	•
S	Climate category III	0
	Stress group E (4)	•

(1)	Rebated	0
Edge	Unrebated with jamb rebate	0
ш	Double-rebated	0
S	Solid wall	•
Walls	Gypsum plasterboard wall	0
>	Glazing Type 25 V	0
	Steel frame	0
Se	Wooden wrap-around frame	0
Frames	Wooden block frame	0
ᇤ	Solid wooden frame	0
	4-sided frame	0
tack	Push side	•
Atta	Pull side	0



Burglar-Protection-Doors

Information

For additional technical information please see appendix, indicated with i







Tender specifications

For additional technical information please see appendix, indicated with



WK 2-1 / WK 3-1 FORM-Burglar-Protection-Door Model 5.00 / 5.10

Burglar-Protection WK 3

Approval

- DIN CERTCO Reg.-No.: 4T053 (WK 3) Attack direction
- Push side
- ODIN CERTCO Reg.-No.: 4T051 (WK 2)
 - Attack direction O Push side
 - O Pull side

Optional function

- O Burglar-Protection WK 2
- Sound-Insulation Rw,P = 48 dB
- O Radiation-Protection

Dimensions

					Е	3F	₹-	W	/io	dt	h	Х					. BR-height
																	Throat opening

Walls

- OMasonry ≥ 115 mm
- O Concrete ≥ 120 mm (WK 3)
 - ≥ 100 mm (WK 2)
- O Gypsum plasterboard wall

≥ 100 mm

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown), double-rebated

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mmFloor recess 30 mm - Backbend 15 mm - without floor recess
- O Steel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- O Steel block frame
- Standard installation Installation in hallways
- O Round-shaped frame
- O Face expansion .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls

 Adapter fastening

 Trapezoid anchor fastening

- O Projecting frame
- O Sports hall frame
- O Required face width /. . . . mm O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/75 mm O Solid wooden frame, 70/95 mm
- Standard installation
 Installation in hallways
 Installation in front of Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm

- Double-rebated (D)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge OVeneer edge
- OPlastic material edge
- OColour-coated edge
- О⊚.....

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

- Double-rebated
- VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d
- OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm,

- hinge base 3D adjustable (VHX)
- Double-rebated
- VX 7939/160 FD OBSW 060-21 VX FD
- OAdditional 3rd hinge Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated Stainless steel
- Brass-coloured Colour-coated

RC2 / RC3 WK 2 / WK 3

Locks

- Triple bolting, backset 80 mm prepared for profile cylinder
- OTriple bolting with panic function
- OLock according to DIN 18251, class 4 (WK 2)
- OPanic lock (WK 2)
- OSelf-bolting panic lock
 DORMA SVP 2 . . . up to 6 . . . (WK2)

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- O⊚.....

Special equipment

- Retractable bottom seal
- Security bolts
- OClimate category III
- OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike
- ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)



1-leaf door

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



 Burglar-Protection WK 3 O Burglar-Protection WK 2

Optional function



Sound-Insulation Rw,P = 48 dB



Radiation-Protection



Models



17.00

Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 1750-2250
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	531-1220 1703-2203
Dir	Door leaf thickness	70
_	Solid door	0
Configuration	Style door (profile beads)	0
gur	Climate category II	•
onfi	Climate category III	0
ပ	Stress group E (4)	•

Edge	Double-rebated	•
Walls	Solid wall	•
Wa	Gypsum plasterboard wall	0
	Steel frame	0
Se	Wooden wrap-around frame	0
Frames	Wooden block frame	0
ᇤ	Solid wooden frame (WK 2)	0
	4-sided frame	0
Attack lirection	Push side	•
Atta	Pull side	0



Burglar-Protection-Doors

For additional technical information please see appendix, indicated with i

Information

Standard O On request



Tender specifications

For additional technical information please see appendix, indicated with



WK 2-1 / WK 3-1 FORM-Burglar-Protection-Door Model 50-1.00

Burglar-Protection WK 3

Approval

- DIN CERTCO Reg.-No.: 4T053 (WK 3)
 - Attack direction
 - Push side O Pull side
- ODIN CERTCO Reg.-No.: 4T051 (WK 2)
- Attack direction
- O Push side O Pull side

Optional function

- OBurglar-Protection WK 2
- Sound-Insulation Rw,P = 50 dB
- O Sound-Insulation Rw,P = 48 dB
- O Radiation-Protection

Dimensions

					Е	3F	₹-	W	/io	dt	th	X	(. BR-height
																	Throat opening

Walls

- O Masonry
- ≥ 115 mm
- Concrete
- ≥ 120 mm (WK 3) ≥ 100 mm (WK 2)
- OGypsum plasterboard wall ≥ 100 mm

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall: - Backbend 15 mm
- Backbend 9 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
 O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening O Projecting frame
- O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/75 mm
- O Solid wooden frame, 70/95 mm Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame
- O 🕸

Door leaf

Door leaf thickness about 91 mm

- Rebated (F)
- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O. Stainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable

- Double-rebated
- Unrebated O VX7729/160-4 O BSW090-747/160, VX
- VX7939/160-4 FD ○BSW090-745/160 DF, VX OAdditional 3rd hinge OAdditional 4th hinge
- O Additional 3rd hinge O Additional 4th hinge O ®

Wooden frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable (VHX)

- Double-rebated
- VX7939/160-4 FD OBSW090-745/160 DF, VX
- Unrebated O VX7729/160-4 O BSW090-747/160, VX
- O Additional 3rd hinge OAdditional 3rd hinge O Additional 4th hinge OAdditional 4th hinge ○◎

Hinge surface

- Plastic material Galvanised
- Matt nickel-plated - Brass-coloured Stainless steel Colour-coated

RC2/RC3WK 2 / WK 3

Locks

- Triple bolting, backset 65 mm, prepared for profile cylinder
- OTriple bolting with panic function
- OLock according to DIN 18251, class 4 (WK 2)
- OPanic lock (WK 2)
- OSelf-bolting panic lock
 DORMA SVP 2 . . . up to 6 . . . (WK2)

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Special equipment

- 2 retractable bottom seals
- Security bolts
- OClimate category III
- OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike
- ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)



50-1

1-leaf door

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



 Burglar-Protection WK 3 O Burglar-Protection WK 2

Optional function



● Sound-Insulation Rw,P = 50 dB O Sound-Insulation Rw,P = 48 dB



Radiation-Protection



Models



50-1.00

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-1314 1750-2500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	781-1220 1703-2453
۵	Door leaf thickness	91
ء	Solid door	0
Configuration	Style door (profile beads)	0
igur	Climate category II	•
onf	Climate category III	0
0	Stress group E (4)	•

σ.	Rebated	0
Edge	Double-rebated	•
ш .	with double jamb rebate	0
Walls	Solid wall	•
×	Gypsum plasterboard wall	0
	Steel frame	0
န္တ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
ᇤ	Solid wooden frame	0
	4-sided frame	О
vttack rection	Push side	•
Atta	Pull side	0



Burglar-Protection-Doors

Information

For additional technical information please see appendix, indicated with i







Tender specifications

For additional technical information please see appendix, indicated with



WK 2-1 / WK 3-1 FORM-Burglar-Protection-Door Model 35.00 / 35.10

Burglar-Protection WK 3

Approval

- DIN CERTCO Reg.-No.: 4T053 (WK 3)
- Attack direction Push side
- O Pull side
- ODIN CERTCO Reg.-No.: 4T051 (WK 2)
- Attack direction
 - O Push side
 - O Pull side
- OCE-label according to DIN EN 14351-1 (external doors), applied for approval

Optional function

- O Burglar-Protection WK 2
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 32 dB
- Climate sturdiness Climate category IV
- Protection against cold/heat insulation (solid door) $u = 1,38 \frac{W}{m^2 \cdot K}$ (SD 42)

 - $u = 1,31 \frac{W}{m^2 \cdot K}$ (SD 37 / SD 32)
- Joint impermeability
 - $a < 1.0 \, \frac{m^3}{h \cdot m} \,$ because Pa $^{2/3}$

Dimensions

	BR-width x	BR-height
		Throat opening

Walls

- O Masonry ≥ 115 mm
- ≥ 120 mm (WK 3) O Concrete
 - ≥ 100 mm (WK 2)
- O Gypsum plasterboard wall ≥ 100 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) O Solid wooden frame, 70/95 mm,

- aluminium stop rail Standard installation
- Installation in front of wall opening
- Projecting installation
- O4-sided frame

- Door leaf thickness about 70 mm
- Double-rebated (D)
- Solid door, climate category IV
- Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OColour-coated edge

Vision panel

Type of glass

- Allstop Phonstop P6B GH / THS (clear glass) OCombination of burglar protection glass with
- different functional glasses, depending on the purpose

Configuration OStandard

- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size mm
 ODecorative beads on glass

Glazing beads

- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- **OVeneer**
- Transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating HPL 0500 A
- OColour-coated

Hinges

Wooden frames
Three-roll-hinges, 2 pieces, 160 mm,

- hinge base 3D adjustable
- Double-rebated for Rw,P = 42 dB
- VX 7939/160 FD
- OBSW 060-21 VX FD
- for Rw,P = 37 dB / 32 dB
- VX 7939/160
- OBSW 060-21 VX
- OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX
- OAdditional 3rd hinge O⊚.....

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated Stainless steel
- Brass-coloured - Colour-coated

RC2 / RC3 WK 2 / WK 3

Locks

- Triple bolting, backset 65 mm, prepared for profile cylinder
- OTriple bolting with panic function
- OLock according to DIN 18251, class 4 (WK 2)
- OPanic lock (WK 2)
- OSelf-bolting panic lock
 DORMA SVP 2 . . . up to 6 . . . (WK2)

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- Ο⊚.....

Special equipment

- Retractable bottom seal
- Security bolts OElectrical strike
- ODoor viewer
- OBlock lock OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)



Burglar-Protection-Doors

35 N

1-leaf door

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



Burglar-Protection WK 3Burglar-Protection WK 2

Optional function



- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



 Climate sturdiness, protection against cold/ heat insulation

Note

Door element for external use; for not directly weather exposed locations.



Models



35.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	681-1306 1778-2278
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	531-1156 1703-2203
Din	Door leaf thickness	70
u	Solid door	0
atio	Door with vision panel	0
Configuration	Style door (profile beads)	0
onfi	Climate category IV	•
0	Stress group E (4)	•

Edge	Double-rebated	•
Walls	Solid wall	•
	Gypsum plasterboard wall	О
Frame	Solid wooden frame	•
Attack direction	Push side	•
Atta direc	Pull side	0

Information

For additional technical information please see appendix, indicated with i







Tender specifications

Information

For additional technical information please see appendix, indicated with



WK 2-1 FORM-Burglar-Protection-Door Model 3.01 / 3.02

Burglar-Protection WK 2

Approval

- DIN CERTCO Reg.-No.: 4T050
- Attack direction
- Push side O Pull side

Optional function

- O Sound-Insulation Rw,P = 32 dB
- O Radiation-Protection
- O Bullet-Resistant M 3

Dimensions

🖎 BR-width x BR-height 🖎 Throat opening

- O Masonry ≥ 115 mm
- O Concrete ≥ 100 mm O Gypsum plasterboard wall
- ≥ 100 mm
- O Burglar-Protection-Glazing Type 25 V

Steel frames

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm Backbend 15 mmwithout floor recess
- Floor recess 30 mm OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame O Sports hall frame
- O Required face width /. . . . mm
- OFrame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- Standard installation
 Installation in later
- Installation in hallways
 Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Top panel

- OTop panel
- Counter-rebated
 OFanlight with transom and security glass
- OFanlight with security glass type 25V

Surfaces

Door leaf / Top panel / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

- VS 8939 **O**VN 8938
- OVSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX. 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- Rebated ● VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX
- OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX
- OAdditional 3rd hinge Ŏ®...

Galvanised

VSX 7729/160 O VX 7729/160

Unrebated

VS 8949

O VN 8948

O VSX 7729/160, 3-d.

O BSW 060-22 VX. 3-d.

O Additional 3rd hinge

O VIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX, 3-d.

○◎.....

O VX 7729/160, 3-d.

- O BSW 060-22 VX
- O VIELER ER.TB.160.332.S O HEWI B9107.160 VX
- O Additional 3rd hinge
- ○◎......
- Hinge surface
- Matt nickel-plated Stainless steel
- Plastic material - Brass-coloured Colour-coated

- Locks
- Lock according to DIN 18251, class 4 with latch function, backset 65 mm, prepared for profile cylinder
- OPanic lock
- OSelf-bolting panic lock DORMA SVP 2 . . . up to 6 . . .
- OTriple bolting
- OTriple bolting with panic function

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- Special equipment
- OClimate category III
 OLead inlay for Radiation-Protection up to 4 mm
 OElectrical strike

- ODoor viewer ORetractable bottom seal
- standard for Sound-Insulation function
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



Burglar-Protection-Doors

3 N

1-leaf door, with top panel

Performance overview

RC2 WK 2

Main function



Burglar-Protection WK 2

Optional function



O Sound-Insulation Rw,P = 32 dB



O Radiation-Protection



Models





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1250 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1186 1968-3468 1718-2218
Dir	Door leaf thickness	70
L	Solid door	0
Configuration	Style door (profile beads)	0
igur	Climate category II	•
onf	Climate category III	0
O	Stress group E (4)	•

Edge	Rebated	0
Ед	Unrebated	О
S	Solid wall	•
Walls	Gypsum plasterboard wall	0
۸	Glazing Type 25 V	0
	Steel frame	O
Frames	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	O
Attack lirection	Push side	•
Atta direc	Pull side	0



For additional technical information please see appendix, indicated with i







Tender specifications

Information

For additional technical information please see appendix, indicated with



WK 2-1 FORM-Burglar-Protection-Door Models 13.01 / 13.02

Burglar-Protection WK 2

Approval

- DIN CERTCO Reg.-No.: 4T050
- Attack direction
- Push side O Pull side

Optional function

- Sound-Insulation Rw,P = 37 dB
- O Radiation-Protection
- O Bullet-Resistant M 3

Dimensions

🖎 BR-width x BR-height 🖎 Throat opening

- O Masonry ≥ 115 mm
- O Concrete ≥ 100 mm O Gypsum plasterboard wall
- ≥ 100 mm O Burglar-Protection-Glazing Type 25 V

Steel frames

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm
- Floor recess 30 mm
- Backbend 15 mmwithout floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame OFace expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame O Sports hall frame
- O Required face width /. . . . mm
- OFrame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm
- Standard installation
 Installation in later
- Installation in hallways
 Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Top panel

- OTop panel
- Counter-rebated
 OFanlight with transom and security glass
- OFanlight with security glass type 25V

Surfaces

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

- VS 8939
- **O**VN 8938
- OVSX 7939/160, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 VX. 3-d.
- OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- Rebated ● VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX
- OHEWI B8107.160 VX

Hinge surface

Galvanised

Stainless steel

- OVIELER ER.TB.160.337.F OAdditional 3rd hinge Ŏ®...
- O VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S O HEWI B9107.160 VX
 - - O Additional 3rd hinge 0 №

Unrebated

VS 8949

O VN 8948

O VSX 7729/160, 3-d.

O BSW 060-22 VX. 3-d.

O Additional 3rd hinge

VSX 7729/160

O VIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX, 3-d.

○◎.....

O VX 7729/160, 3-d.

Matt nickel-plated - Brass-coloured - Colour-coated

- Plastic material

- Locks
- Lock according to DIN 18251, class 4 with latch function, backset 65 mm, prepared for profile cylinder
- OPanic lock
- OSelf-bolting panic lock DORMA SVP 2 . . . up to 6 . . .
- OTriple bolting
- OTriple bolting with panic function

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

- Handle surface Aluminium
- Stainless steel
- Plastic material
- Special equipment
- OClimate category III
 OLead inlay for Radiation-Protection up to 4 mm
 OElectrical strike

- ODoor viewer ORetractable bottom seal
- standard for Sound-Insulation function
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

Performance overview

RC2 WK 2

Main function



Burglar-Protection WK 2

Optional function



Sound-Insulation Rw,P = 37 dB



O Radiation-Protection





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	500-1250 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	436-1186 1968-3468 1718-2218
Ģ	Door leaf thickness	70
ء	Solid door	О
atio	Style door (profile beads)	0
igur	Climate category II	•
Configuration	Climate category III	0
Lo	Stress group E (4)	•

Edge	Rebated	0
Ed	Unrebated	О
S	Solid wall	•
Walls	Gypsum plasterboard wall	О
>	Glazing Type 25 V	0
Frames	Steel frame	О
	Wooden wrap-around frame	0
	Wooden block frame	О
	Solid wooden frame	0
	4-sided frame	О
Attack lirection	Push side	•
Atta direc	Pull side	0



Burglar-Protection-Doors

For additional technical information please see appendix, indicated with i



Standard On request



Tender specifications

For additional technical information please see appendix, indicated with



WK 2-1 / WK 3-1 FORM-Burglar-Protection-Door Model 16.01 / 16.11 / 16.02 / 16.12

Burglar-Protection WK 3

- DIN CERTCO Reg.-No.: 4T053 (WK 3)
- Attack direction
- Push side O Pull side
- ODIN CERTCO Reg.-No.: 4T051 (WK 2)
 - Attack direction O Push side
 - O Pull side

Optional function

- OBurglar-Protection WK 2
- O Sound-Insulation Rw,P = 32 dB
- O Radiation-Protection

Dimensions

🖎 BR-width x BR-height

- ≥ 115 mm
- O Concrete ≥ 100 mm
- OGypsum plasterboard wall ≥ 100 mm
- O Burglar-Protection-Glazing Type 25 V

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm Backbend 15 mm Without floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- OProjecting frame
- O Sports hall frame
- O Required face width.
- O Frame for reconstruction O Configuration in stainless steel
- O 4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

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- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm, respectively
- 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O 4-sided frame
- 0 ◎

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Allstop P6B-10 (clear glass)
- OAllstop P4A-10 (clear glass)

Configuration

- **O**Standard OFramed glazing
- OAccording to DIN 68706 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated
- OFanlight with transom and security glass (WK 2)
- OFanlight with security glass type 25V (WK 3)

Door leaf / Top panel / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated/Double-rebated ● VSX 7939/160, 3-d.

- Ovx 7939/160, 3-d. OBSW 060-21 VX. 3-d.
- OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- Unrebated ● VSX 7729/160, 3-d.
- O VX 7729/160, 3-d.
- O BSW 060-22 VX. 3-d.
- OVIELER ER.TB.160.332.S, 3-d.
- O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

RC2/RC3WK 2 / WK 3

Wooden frames

OBSW 060-21 VX

OVIELER ER.TB.160.337.F

OHEWI B8107.160 VX

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated/Double-rebated Unrebated

- VSX 7939/160 VSX 7729/160 Ovx 7939/160
 - O VX 7729/160
 - O BSW 060-22 VX

 - O VIELER ER.TB.160.332.S O HEWI B9107.160 VX
 - O Additional 3rd hinge ○◎....

OAdditional 3rd hinge Hinge surface

- Galvanised - Plastic material
- Matt nickel-plated - Brass-coloured - Colour-coated Stainless steel

O®

- Triple bolting, backset 65 mm, prepared for profile cylinder OTriple bolting with panic function
- OLock according to DIN 18251, class 4 (WK 2)
- OPanic lock (WK 2)
- OSelf-bolting panic lock
 DORMA SVP 2 . . . up to 6 . . . (WK 2)

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Handles OSecurity knob-lever set, long backplate, one-sided fixed knob

class ES 1, ES 2 or ES 3 Handle surface

- Aluminium Stainless steel
- Plastic material

O.

- Special equipment
- Security bolts OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike ODoor viewer
- ORetractable bottom seal (standard for Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel

- OConcealed cable transition OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



- Burglar-Protection WK 3 O Burglar-Protection WK 2
- Optional function



O Sound-Insulation Rw,P = 32 dB



O Radiation-Protection



Models









Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1250 1968-3468 1718-2468
Ωį	Door leaf thickness	70
	Solid door	0
<u>.oi</u>	Door with vision panel	0
Configuration	Style door (profile beads)	0
) fig	Climate category II	•
ပ်	Climate category III	0
	Stress group E (4)	•

	Rebated	О
Edge	Unrebated with jamb rebate	О
"	Double-rebated	О
S	Solid wall	•
Walls	Gypsum plasterboard wall	0
>	Glazing Type 25 V	0
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
뇬	Solid wooden frame	0
	4-sided frame	0
ttack ection	Push side	•
Atta	Pull side	0



Burglar-Protection-Doors

Information

For additional technical information please see appendix, indicated with i





Tender specifications

For additional technical information please see appendix, indicated with



WK 2-1 / WK 3-1 FORM-Burglar-Protection-Door Model 5.01 / 5.11 / 5.02 / 5.12

Burglar-Protection WK 3

Approval

- DIN CERTCO Reg.-No.: 4T053 (WK 3)
- Attack direction
- Push side
- O Pull side ODIN CERTCO Reg.-No.: 4T051 (WK 2)
- Attack direction O Push side
- O Pull side

Optional function

- OBurglar-Protection WK 2
- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37dB O Radiation-Protection

Dimensions

	BR-w	idth x	BR-height
			Throat opening

Walls

- O Masonry ≥ 115 mm O Concrete ≥ 100 mm
- OGypsum plasterboard wall ≥ 100 mm
- O Burglar-Protection-Glazing Type 25 V

Steel frames

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm Floor recess 30 mm Backbend 15 mm
 without floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- O Steel block frame
- Standard installation
 Installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion.
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
- O Sports hall frame
- O Required face width / . . . mm O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- OWooden block frame, architrave 45/60 mm OSolid wooden frame, 70/73 mm

- Standard installation
 Installation in hallways
 Installation in front of wall opening
- Projecting installation O Frame for reconstruction
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)

- Solid door, climate category II
 Stress group E (4)
 Door with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

- Allstop P6B GH (clear glass)
- OAllstop P4A GH (clear glass)

Configuration

- **O**Standard OFramed glazing
- OAccording to DIN 68706 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated
- OFanlight with transom and security glass (WK 2)
- OFanlight with security glass type 25V (WK 3)

Door leaf / Top panel / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0.8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated/Double-rebated

- for Rw.P = 42/45 dB • VX 7939/160 FD, 3-d.
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB
- VSX 7939/160, 3-d. Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OAdditional 3rd hinge
- OVIELER ER.TB.160.337.F. 3-d. OHEWI B8107.160 VX, 3-d.

Unrebated

- VSX 7729/160, 3-d.
- O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.
- \mathbf{O} VIELER ER.TB.160.332.S, 3-d.
- O HEWI B9107.160 VX. 3-d. O Additional 3rd hinge
- O 🗞

RC2 / RC3 WK 2 / WK 3

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated/ Unrebated

Double-rebated

- for Rw,P = 42 dB ● VX 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB
- VSX 7939/160
- Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OHEWI B8107.160 VX OAdditional 3rd hinge

Hinge surface

Locks

- Galvanised - Plastic material
- Matt nickel-plated
 - Brass-coloured - Colour-coated

VSX 7729/160

O VX 7729/160

O BSW 060-22 VX O VIELER ER.TB.160.332.S

O HEWI B9107.160 VX

O Additional 3rd hinge

Stainless steel

- Triple bolting, backset 65 mm,
- prepared for profile cylinder OTriple bolting with panic function
 OLock according to DIN 18251, class 4 (WK 2)
- OPanic lock (WK 2)
- OSelf-bolting panic lock DORMA SVP 2 . . . up to 6 . . . (WK 2)

Forend surface

- Galvanised
- Stainless steel
- Brass-plated
- Handles OSecurity knob-lever set, long backplate, one-sided fixed knob,

class ES 1, ES 2 or ES 3

- Handle surface Aluminium
- Stainless steel
- Plastic material

- Special equipment
- Retractable bottom seal
- Security bolts OClimate category III
- OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



- Burglar-Protection WK 3
- O Burglar-Protection WK 2

Optional function

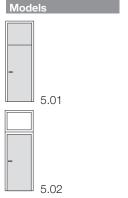


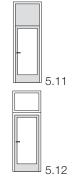
- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB



O Radiation-Protection







Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1250 1968-3468 1718-2468
Ģ	Door leaf thickness	70
	Solid door	0
loi	Door with vision panel	0
Configuration	Style door (profile beads)	0
) Jiju	Climate category II	•
Col	Climate category III	О
	Stress group E (4)	•

σ,	Rebated	0
Edge	Unrebated with jamb rebate	О
	Double-rebated	0
S	Solid wall	•
Walls	Gypsum plasterboard wall	0
>	Glazing Type 25 V	О
	Steel frame	0
တ္တ	Wooden wrap-around frame	О
Frames	Wooden block frame	0
ᇤ	Solid wooden frame	О
	4-sided frame	0
Attack lirection	Push side	•
Att	Pull side	0



Burglar-Protection-Doors

Information

For additional technical information please see appendix, indicated with i





Tender specifications

Information

For additional technical information please see appendix, indicated with



WK 2-1 FORM-Burglar-Protection-Door Model 17.02

Burglar-Protection WK 2

Approval

- DIN CERTCO Reg.-No.: 4T051
- Attack direction Push side
- O Pull side

Optional function

- Sound-Insulation Rw,P = 48 dB
- O Radiation-Protection

Dimensions

- O Masonry ≥ 115 mm
- O Concrete ≥ 100 mm

O Gypsum plasterboard wall ≥ 100 mm

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown), double-rebated

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm Backbend 9 mm
 Floor recess 30 mm
 Backbend 15 mm
 without floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening OProjecting frame
- O Sports hall frame
- O Required face width.
- O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)

- OWooden wrap-around frame, architrave 60/60 mm
- OWooden block frame, architrave 45/75 mm O Solid wooden frame, 70/95 mm, double-rebated
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O4-sided frame

Door leaf

Door leaf thickness about 70 mm

- Double-rebated (D)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Top panel

OFanlight 25 V and in combination with burglar protection glass with different functional glass, depending on purpose

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

- Double-rebated VX 7939/160 FD, 3-d
- OBSW 060-21 VX FD, 3-d.
- OAdditional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Double-rebated ● VX 7939/160 FD
- OBSW 060-21 VX FD
- OAdditional 3rd hinge
- ŏ®

Hinge surface

- Galvanised
- Plastic material Matt nickel-plated - Brass-coloured
- Stainless steel
- Colour-coated

- Lock according to DIN 18251, class 4 with latch function, backset 80 mm prepared for profile cylinder
- OPanic lock
- OSelf-bolting panic lock
- DORMA SVP 2 . . . up to 6 . . . OTriple bolting
- OTriple bolting with panic function

Forend surface

- Galvanised
- Stainless steel Brass-plated

- Handles
- OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material

O⊚..... Special equipment

- Retractable bottom seal
- OClimate category III
- OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

340



1-leaf door, with top panel

Performance overview

RC2 WK 2

Main function



Burglar-Protection WK 2

Optional function



Sound-Insulation Rw,P = 48 dB



O Radiation-Protection



Models



17.02

Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1314 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1250 1968-3468 1718-2203
٦	Door leaf thickness	70
_	Solid door	0
atio	Style door (profile beads)	0
Configuration	Climate category II	•
onfi	Climate category III	0
ပ	Stress group E (4)	•

Edge	Double-rebated	•
Walls	Solid wall	•
Wa	Gypsum plasterboard wall	0
	Steel frame	0
ရွ	Wooden wrap-around frame	О
Frames	Wooden block frame	0
正	Solid wooden frame	0
	4-sided frame	0
Attack irection	Push side	•
Atta	Pull side	0



Burglar-Protection-Doors

Information

For additional technical information please see appendix, indicated with i



Standard On request



Tender specifications

Information

For additional technical information please see appendix, indicated with



WK 2-1 / WK 3-1 FORM-Burglar-Protection-Door Model 35.02 / 35.12

Burglar-Protection WK 3

- DIN CERTCO Reg.-No.: 4T053 (WK 3) Attack direction
- Push side
- O Pull side
- ODIN CERTCO Reg.-No.: 4T051 (WK 2)
 - Attack direction O Push side
 - O Pull side
- OCE-label according to DIN EN 14351-1 (external doors), applied for approval

Optional function

- O Burglar-Protection WK 2
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB
- Climate sturdiness
- Climate category IV
- Protection against cold/heat insulation (solid door) $u = 1,38 \frac{W}{m^2 \cdot K}$ (SD 42)

- $u = 1,31 \, \frac{W}{m^2 \cdot K}$ (SD 37 / SD 32)
- Joint impermeability

 $a < 1,0 \frac{m^3}{h \cdot m}$ because Pa ^{2/3}

🕲 BR-width x BR-height 🕲 Throat opening

Walls

- O Masonry ≥ 115 mm
- ≥ 120 mm (WK 3) O Concrete
 - ≥ 100 mm (WK 2)
- ≥ 100 mm O Gypsum plasterboard wall

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)
O Solid wooden frame, 70/95 mm,

- aluminium stop rail
- Standard installation
- Installation in front of wall opening
- Projecting installation

Door leaf thickness about 70 mm

- Double-rebated (D)
- Solid door, climate category IV
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OColour-coated edge

Vision panel

Type of glass

- Allstop Phonstop P6B GH / THS (clear glass)
- OCombination of burglar protection glass with different functional glasses, depending on purpose

Configuration

- **OStandard**
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass
- Glazing beads
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

OFanlight 25 V and in combination with burglar protection glass with different functional glass, depending on purpose

Door leaf / Wooden frame

- **OVeneer**
- Transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating HPL 0500 A
- OColour-coated

Hinges

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

- Rebated
- for Rw,P = 42 dB● VX 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB / 32 dB
- VX 7939/160
- OBSW 060-21 VX
- OVIELER ER.TB.160.337.F
- OSIMONS FUK 160.4.xx VX
- OHEWI B8107,160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Plastic material
- Stainless steel
- Matt nickel-plated Brass-coloured

Locks

- Triple bolting, backset 80 mm prepared for profile cylinder
- OTriple bolting with panic function

RC2/RC3

OLock according to DIN 18251, class 4 (WK 2)

WK 2 / WK 3

- OPanic lock (WK 2)
- OSelf-bolting panic lock
 DORMA SVP 2 . . . up to 6 . . . (WK 2)

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material
- Ο⊚......

Special equipment

- Retractable bottom seal
- Security bolts
- OElectrical strike
- ODoor viewer OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



Burglar-Protection WK 3 O Burglar-Protection WK 2

Optional function



- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB



 Climate sturdiness, protection against cold/ heat insulation

Note

Door element for external use; for not directly weather exposed locations.



Models







Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	689-1314 2032-3032
Dimensions	Clear passage LD-width Clear passage LD-height Clear passage (door) height	539-1164 1957-2957 1707-2207
i i	Door leaf thickness	70
_	Solid door	0
atio	Door with vision panel	0
Configuration	Style door (profile beads)	0
onfi	Climate category IV	•
	Stress group E (4)	•

Edge	Double-rebated	•
Walls	Solid wall	•
	Gypsum plasterboard wall	О
Frame	Solid wooden frame	•
Attack direction	Push side	•
	Pull side	0



Burglar-Protection-Doors

For additional technical information please see appendix, indicated with i

Information







Tender specifications

For additional technical information please see appendix, indicated with



WK 2-2 / WK 3-2 FORM-Burglar-Protection-Door Model 26.00 / 26.10

Burglar-Protection WK 2

- DIN CERTCO Reg.-No.: 4T052 (WK 2)
 - Attack direction
 - Push side O Pull side
- ODIN CERTCO Reg.-No.: 4T093 (WK 3)
- Attack direction Push side
- O Pull side

Optional function

- OBurglar-Protection WK 3
- O Sound-Insulation Rw,P = 32 dB
- O Radiation-Protection

Dimensions

🖎 BR-width x BR-height

- ≥ 115 mm
- O Concrete ≥ 100 mm
- OGypsum plasterboard wall ≥ 100 mm
- O Burglar-Protection-Glazing Type 25 V

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm Backbend 15 mm Without floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- OProjecting frame
- O Sports hall frame
- O Required face width.
- O Frame for reconstruction
- O Configuration in stainless steel
- O 4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

344

- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm, respectively
- 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O 4-sided frame
- О७

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
- OSolid door, climate category III • Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O....

Vision panel

Type of glass

- Allstop P4A-10 (clear glass)
 OAllstop P6B-10 (clear glass)

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Top panel / Wooden frame

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated/Double-rebated

- VSX 7939/160, 3-d.

- Ovx 7939/160, 3-d.
- OBSW 060-21 VX. 3-d. OVELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- Wooden frames
- Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)
- VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OAdditional 3rd hinge
- Rebated/Double-rebated Unrebated VSX 7729/160

Unrebated

VSX 7729/160, 3-d.

 \bigcirc VX 7729/160, 3-d.

O BSW 060-22 VX. 3-d.

O Additional 3rd hinge O № . .

OVIELER ER.TB.160.332.S, 3-d.

O HEWI B9107.160 VX, 3-d.

- O VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O HEWI B9107.160 VX O Additional 3rd hinge O 🕲 . .

Hinge surface

O‱

- Galvanised Plastic material Matt nickel-plated Brass-coloured
- Stainless steel
- Colour-coated

RC2/RC3WK 2 / WK 3

Locks

- Triple bolting, backset 65 mm, prepared for profile cylinder
- OTriple bolting with panic function

- Brass-plated

OSecurity knob-lever set, long backplate,

Handle surface

- Stainless steel

Special equipment

- Security bolts
 OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike (WK 2)
- ODoor viewer
- ORetractable bottom seal
- OBlock lock
- OMagnetic contact

- inactive leaf with concealed shot-bolt lock
- ODORMA M-SVP 2000

Forend surface

- Galvanised
- Stainless steel
- Handles

one-sided fixed knob, class ES 1, ES 2 or ES 3

- Aluminium
- Plastic material

- (standard for Sound-Insulation function)
- OBolt contact
- OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)



2-leaf door

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



 Burglar-Protection WK 2 O Burglar-Protection WK 3

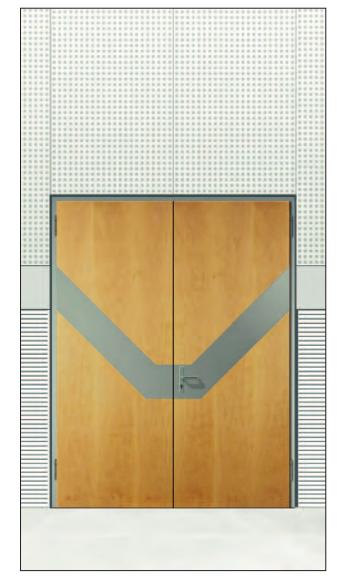
Optional function



O Sound-Insulation Rw,P = 32 dB



O Radiation-Protection



Models



26.00



26.10

Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	1250-2500 2000-2500
	Clear passage LD-width Clear passage LD-height	1186-2436 1968-2468
۵	Door leaf thickness	70
	Solid door	0
ion	Door with vision panel	0
Configuration	Style door (profile beads)	0
Jigir	Climate category II	•
Cor	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
	Unrebated with jamb rebate	0
	Double-rebated	0
"	Solid wall	•
Walls	Gypsum plasterboard wall	0
۸	Glazing Type 25 V	О
S	Steel frame	0
	Wooden wrap-around frame	О
Frames	Wooden block frame	О
Fr	Solid wooden frame	О
	4-sided frame	0
Attack direction	Push side	•
	Pull side	0



Burglar-Protection-Doors

Information

For additional technical information please see appendix, indicated with i



Standard O On request



Tender specifications

Information

For additional technical information please see appendix, indicated with



WK 2-2 / WK 3-2 FORM-Burglar-Protection-Door Model 6.00 / 6.10

Burglar-Protection WK 2

- DIN CERTCO Reg.-No.: 4T052 (WK 2)
 - Attack direction Push side
- O Pull side
- ODIN CERTCO Reg.-No.: 4T093 (WK 3)
 - Attack direction Push side
 - O Pull side

Optional function

- OBurglar-Protection WK 3
- OSound-Insulation Rw,P = 45 dB (WK 2)
 OSound-Insulation Rw,P = 42 dB (WK 2)
 OSound-Insulation Rw,P = 37 dB (WK 2, WK 3)

- O Radiation-Protection

Dimensions

	BR-width >	x BR-height
		Throat opening

Walls

- Masonry > 115 mm O Concrete ≥ 100 mm
- OGypsum plasterboard wall ≥ 100 mm
- OBurglar-Protection-Glazing Type 25 V

Steel frames

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall O Corner frame, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion / mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm, meeting stiles double-rebated

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
 Stress group E (4)
- ODoor with holohedral additional wood panelling,
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
 OPlastic material edge
- OColour-coated edge
- O.

Vision panel

Type of glass

- Allstop P4A GH (clear glass)
 OAllstop P6B GH (clear glass)
- Configuration
- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size . .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable Rebated/Double-rebated

- for Rw,P = 45/42 dB● VX 7939/160 FD
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB
- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107,160 VX, 3-d.
- OAdditional 3rd hinge
- Unrebated
- VSX 7729/160, 3-d.
- \bigcirc VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
 O VIELER ER.TB.160.332.S, 3-d.
- O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

- Rebated/Double-rebated for Rw,P = 45/42 dB ● vsx 7729/160
- VX 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB

RC2 / RC3

WK 2 / WK 3

- VSX 7939/160
- Ovx 7939/160 OBSW 060-21 VX
- OVIELER ER.TB.160.337.F
- OHEWI B8107,160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised - Matt nickel-plated - Brass-coloured
- Stainless steel

- Locks Triple bolting, backset 65 mm, prepared for profile cylinder, inactive leaf with concealed shot-bolt lock
- OTriple bolting with panic function ODORMA M-SVP 2000

- Galvanised
- Stainless steel - Brass-plated
- Handles
 - OSecurity handle-set
- class ES 1, ES 2 or ES 3 Knob-lever-set, fixed knob on one side

- Stainless steel

- Retractable bottom seal
- OClimate category III OLead inlay for Radiation-Protection up to 4 mm

- OMagnetic contact
- OCable channel
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

Wooden frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable (VHX) Unrebated

- O BSW 060-22 VX
- O VIELER ER.TB.160.332.S
- O HEWI B9107.160 VX O SIMONS STUK 160.4.xx VX
- O Additional 3rd hinge

- Plastic material

 - Colour-coated

- Forend surface

- with long backplate

- Handle surface
- Aluminium
- Plastic material
- Special equipment

- OElectrical strike
- ODoor viewer
- OBolt contact
- OConcealed cable transition



Burglar-Protection-Doors

6 N

2-leaf door

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



- Burglar-Protection WK 2
- O Burglar-Protection WK 3

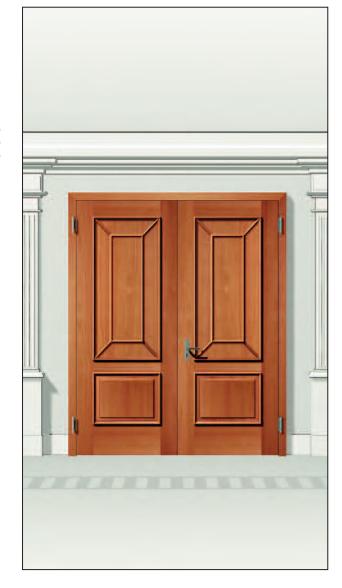
Optional function



- O Sound-Insulation Rw,P = 45 dB
- Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB



O Radiation-Protection



Models







Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	1250-2500 2000-2500
	Clear passage LD-width Clear passage LD-height	1186-2436 1968-2468
٦	Door leaf thickness	70
	Solid door	0
ion	Door with vision panel	0
Configuration	Style door (profile beads)	О
- Julian	Climate category II	•
Col	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	О
	Unrebated with jamb rebate	О
	Double-rebated	О
S	Solid wall	•
Walls	Gypsum plasterboard wall	0
>	Glazing Type 25 V	0
	Steel frame	0
တ္တ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
ᇤ	Solid wooden frame	0
	4-sided frame	0
tack	Push side	•
Atta	Pull side	0



Information

For additional technical information please see appendix, indicated with i



Standard O On request



Tender specifications

For additional technical information please see appendix, indicated with



WK 2-2 / WK 3-2 FORM-Burglar-Protection-Door Model 50-2.00

Burglar-Protection WK 2

- DIN CERTCO Reg.-No.: 4T052 (WK 2)
- Attack direction
- Push side O Pull side
- ODIN CERTCO Reg.-No.: 4T093 (WK 3)
- Attack direction
- Push side O Pull side

Optional function

- OBurglar-Protection WK 3
- O Sound-Insulation Rw,P = 50 dB
- O Sound-Insulation Rw,P = 48 dB
- O Radiation-Protection

Dimensions

🕲 Throat opening

- O Masonry ≥ 115 mm O Concrete ≥ 100 mm
- O Gypsum plasterboard wall ≥ 100 mm

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm Backbend 15 mm Without floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- OSteel block frame
- Standard installationInstallation in hallway Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- OProjecting frame O Sports hall frame
- O Required face width .
- O Frame for reconstruction
- O Configuration in stainless steel O4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- OWooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm, respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O 4-sided frame
- О७

Door leaf

Door leaf thickness about 91 mm, meeting stiles double-rebated

- Rebated (F)
- Double-rebated (D)
- Unrebated with double jamb rebate (S)
- Solid door, climate category II
 Stress group E (4)
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided OConcealed solid wood edge band, 2-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable

- Double-rebated
- VX7939/160-4 FD
- OBSW090-745/160 DF, VX OAdditional 3rd hinge
- OAdditional 4th hinge Õ®...

O Additional 4th hinge

Wooden frames Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable (VHX)

- Double-rebated
- VX7939/160-4 FD OBSW090-745/160 DF, VX Additional 3rd hinge
- OAdditional 4th hinge Ŏ®....
- Unrebated ● VX7729/160-4

Unrebated

VX7729/160-4

O BSW090-747/160, VX

O Additional 3rd hinge

- O BSW090-747/160, VX

Hinge surface

- Galvanised
 - Matt nickel-plated - Brass-coloured Stainless steel Colour-coated
- 0 №

- Additional 3rd hinge Additional 4th hinge

- Locks Triple bolting, backset 65 mm, prepared for profile cylinder inactive leaf with concealed shot-bolt lock

WK 2 / WK 3

OTriple bolting with panic function

RC2 / RC3

ODORMA M-SVP 2000

- Forend surface Galvanised
- Stainless steel
- Brass-plated

Handles

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1, ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material

Special equipment

- Security boltsRetractable bottom seal
- (standard for Sound-Insulation function) OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike (WK 2)
- ODoor viewer
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)



Burglar-Protection-Doors

50-2

2-leaf door

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



Burglar-Protection WK 2Burglar-Protection WK 3

Optional function



- Sound-Insulation Rw,P = 50 dB (WK 2)
- O Sound-Insulation Rw,P = 48 dB (WK 2, WK 3)



O Radiation-Protection



Models



50-2.00

Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	1500-2500 1750-2500
	Clear passage LD-width Clear passage LD-height	1406-2406 1703-2453
	Door leaf thickness	91
_	Solid door	0
Configuration	Style door (profile beads)	0
gar	Climate category II	•
onf	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
Ed	Double-rebated	•
	with double jamb rebate	0
Walls	Solid wall	•
N N	Gypsum plasterboard wall	0
	Steel frame	0
န္တ	Wooden wrap-around frame	0
Frames	Wooden block frame	О
ᇤ	Solid wooden frame	0
	4-sided frame	О
vttack rection	Push side	•
Atta	Pull side	0



Information

For additional technical information please see appendix, indicated with







Tender specifications

For additional technical information please see appendix, indicated with



WK 2-2 / WK 3-2 FORM-Burglar-Protection-Door Model 26.01 / 26.11 / 26.02 / 26.12

Burglar-Protection WK 2

- DIN CERTCO Reg.-No.: 4T052 (WK 2)
- Push side O Pull side
- ODIN CERTCO Reg.-No.: 4T093 (WK 3)
 - Attack direction
 - Push side O Pull side

Optional function

- OBurglar-Protection WK 3
- O Sound-Insulation Rw,P = 32 dB
- O Radiation-Protection

Dimensions

🖎 BR-width x BR-height

- ≥ 115 mm
- O Concrete ≥ 100 mm
- OGypsum plasterboard wall
- O Burglar-Protection-Glazing Type 25 V

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

≥ 100 mm

- Backbend 9 mm Backbend 15 mm Without floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- OProjecting frame
- O Sports hall frame
- O Required face width .
- O Frame for reconstruction
- O Configuration in stainless steel
- O 4-sided frame
- OBackbend up to 23 mm
- O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige) O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm, respectively
- 70/95 mm
- Standard installation
- Installation in hallways Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O 4-sided frame
- 0 ◎

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

- Allstop P4A-10 (clear glass)
 OAllstop P6B-10 (clear glass)

Configuration

- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size . .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated (WK 2)
- OFanlight with transom and security glass (WK 2)
- OFanlight with security glass type 25V (WK 3)

Surfaces

Door leaf / Top panel / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated/Double-rebated

- VSX 7939/160, 3-d.
- OVX 7939/160 3-d
- OBSW 060-21 VX, 3-d.
- OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107,160 VX, 3-d.
- OAdditional 3rd hinge
- Unrebated
- VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d. O HEWI B9107,160 VX, 3-d.
- O Additional 3rd hinge

RC2/RC3WK 2 / WK 3

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Rebated/Double-rebated Unrebated

- VSX 7939/160 VSX 7729/160
- Ovx 7939/160 OBSW 060-21 VX
- OVIELER ER.TB.160.337.F
- O VX 7729/160 O BSW 060-22 VX

 - O VIELER ER.TB.160.332.S O HEWI B9107.160 VX
 - O Additional 3rd hinge ○◎....

OAdditional 3rd hinge O® Hinge surface

OHEWI B8107.160 VX

- Galvanised
- Matt nickel-plated
- Plastic material
- Stainless steel
- Brass-coloured - Colour-coated

- Triple bolting, backset 65 mm, prepared for profile cylinder
- inactive leaf with concealed shot-bolt lock OTriple bolting with panic function
- ODORMA M-SVP 2000

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

OSecurity knob-lever set, long backplate, one-sided fixed knob, class ES 1. ES 2 or ES 3

Handle surface

- Aluminium
- Stainless steel
- Plastic material O.....
- Special equipment
- OElectrical strike (WK 2)
- ORetractable bottom seal
- OBlock lock
- OMagnetic contact
- OCable channel
- OConcealed cable transition

0 №

Security bolts

- OLead inlay for Radiation-Protection up to 4 mm
- ODoor viewer
- (standard for Sound-Insulation function)
- OBolt contact
- OKick plate (aluminium/stainless steel)



2-leaf door, with top panel

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



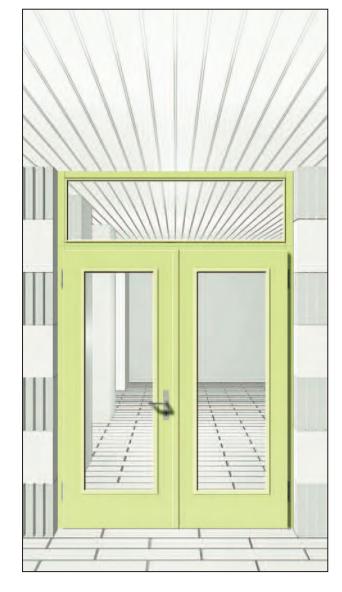
- Burglar-Protection WK 2 O Burglar-Protection WK 3
- Optional function



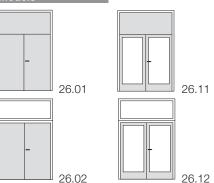
O Sound-Insulation Rw,P = 32 dB



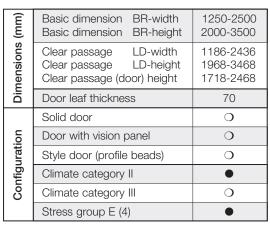
O Radiation-Protection



Models







a)	Rebated	0
Edge	Unrebated with jamb rebate	0
	Double-rebated	0
S	Solid wall	•
Walls	Gypsum plasterboard wall	0
>	Glazing Type 25 V	0
	Steel frame	0
Se	Wooden wrap-around frame	0
Frames	Wooden block frame	0
ļ <u>r</u>	Solid wooden frame	0
	4-sided frame	0
ttack	Push side	•
Atta	Pull side	0



Burglar-Protection-Doors

Information

For additional technical information please see appendix, indicated with i





Tender specifications

For additional technical information please see appendix, indicated with



WK 2-2 / WK 3-2 FORM-Burglar-Protection-Door Model 6.01 / 6.11 / 6.02 / 6.12

Burglar-Protection WK 2

- DIN CERTCO Reg.-No.: 4T052 (WK 2)
 - Attack direction Push side
- O Pull side
- ODIN CERTCO Reg.-No.: 4T093 (WK 3)
 - Attack direction
- Push side
- O Pull side

Optional function

- OBurglar-Protection WK 3

- O Sound-Insulation Rw,P = 45 dB (WK 2)
 O Sound-Insulation Rw,P = 42 dB (WK 2)
 O Sound-Insulation Rw,P = 37 dB (WK 2, WK 3)
- O Radiation-Protection

Dimensions

1	 . BR-width x	BR-height
	 	Throat opening

Walls

- > 115 mm O Masonry
- ≥ 100 mm O Concrete OGypsum plasterboard wall
- ≥ 100 mm O Burglar-Protection-Glazing Type 25 V

Steel frames

Galvanised and undercoated, sheet thickness 2,0 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm - Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- O Corner frame, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame O Sports hall frame
- O Required face width /. . . . mm
- O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OBackbend up to 23 mm O Lead inlay in frame

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O4-sided frame

Door leaf

Door leaf thickness about 70 mm, meeting stiles double-rebated

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
 Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- О७.....

Vision panel

Type of glass

- Allstop P4A GH (clear glass)
 OAllstop P6B GH (clear glass)
- Configuration
- OStandard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size .
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated (WK 2)
- OFanlight with transom and security glass (WK 2)
- OFanlight with security glass type 25V (WK 3)

Surfaces

Door leaf / Top panel / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated/Double-rebated

- for Rw,P = 45/42 dB ● VX 7939/160 FD
- OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB
- VSX 7939/160 3-d Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d. OVIELER ER TR 160 337 F. 3-d.
- OHEWI B8107.160 VX. 3-d. OAdditional 3rd hinge

○◎

Unrebated

- VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d. O HEWI B9107,160 VX, 3-d,
- O Additional 3rd hinge

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

WK 2 / WK 3

RC2 / RC3

Rebated/Double-rebated for Rw,P = 45/42 dB ● vsx 7729/160

- VX 7939/160 FD
- OBSW 060-21 VX FD for Rw,P = 37 dB
- VSX 7939/160
- Ovx 7939/160 O Additional 3rd hinge
- OBSW 060-21 VX
- OVIELER ER.TB.160.337.F OHEWI B8107,160 VX OAdditional 3rd hinge

Hinge surface

- Galvanised
- Matt nickel-plated Brass-coloured

- Locks Triple bolting, backset 65 mm, prepared for profile cylinder,
- OTriple bolting with panic function ODORMA M-SVP 2000

- Galvanised
- Brass-plated

- class ES 1, ES 2 or ES 3
- Aluminium
- Stainless steel

O.....

- (standard for Sound-Insulation function)
- OLead inlay for Radiation-Protection up to 4 mm
- OElectrical strike (WK 2)
- ODoor viewer
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OKick plate (aluminium/stainless steel)

Wooden frames

Unrebated

- O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O HEWI B9107.160 VX
- O SIMONS STUK 160.4.xx VX

- Plastic material
- Stainless steel - Colour-coated

inactive leaf with concealed shot-bolt lock

Forend surface

- Stainless steel
- OSecurity knob-lever set, long backplate,

Handle surface

Plastic material

one-sided fixed knob.

- Special equipment
- Security bolts Retractable bottom seal

- OConcealed cable transition



2-leaf door, with top panel

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



- Burglar-Protection WK 2 O Burglar-Protection WK 3
- Optional function



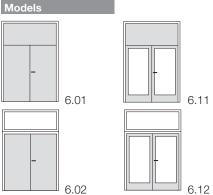
- O Sound-Insulation Rw,P = 45 dB (WK 2)
- Sound-Insulation Rw,P = 42 dB (WK 2)
- O Sound-Insulation Rw,P = 37 dB (WK 2, WK 3)



O Radiation-Protection







Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	1250-2500 2000-3500
	Clear passage LD-width Clear passage LD-height Clear passage (door) height	1186-2436 1968-3468 1718-2468
į	Door leaf thickness	70
	Solid door	0
<u>.o</u>	Door with vision panel	0
Configuration	Style door (profile beads)	0
)fig	Climate category II	•
ပ္ပ	Climate category III	0
	Stress group E (4)	•

Edge	Rebated	0
	Unrebated with jamb rebate	0
	Double-rebated	0
S	Solid wall	•
Walls	Gypsum plasterboard wall	0
>	Glazing Type 25 V	0
	Steel frame	0
Se	Wooden wrap-around frame	О
Frames	Wooden block frame	О
ᇿ	Solid wooden frame	0
	4-sided frame	0
ttack	Push side	•
Atta	Pull side	0



Burglar-Protection-Doors

Information

For additional technical information please see appendix, indicated with i





Fixed glazing

Tender specifications

Information

For additional technical information please see appendix, indicated with



WK 2 / WK 3 FORM-Burglar-Protection-Glazing Type 25 V

Burglar-Protection WK 3

DIN CERTCO Reg.-No.: 5A002 (WK 3)
 DIN CERTCO Reg.-No.: 5A001 (WK 2)

- O Burglar-Protection WK 2
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

Dimensions

Walls

O Solid wall

O Gypsum plasterboard wall

(M)

Fixed glazing

Profile cross-section

- ≥ 55/73/95 mm
- One-sided glazing bead

○ Infill

- ALLSTOP P4A-10
- -ALLSTOP P4A GH (WK 2) -ALLSTOP P6B-10 (WK 3)
- ALLSTOP P6B GH (WK 3)
- Coffer
- Panel version II

○ Segmentation

- without partitioning
- Horizontal partitioning Vertical partitioning
- Cross partitioning

Surfaces

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Special equipment

- OCorner posts
- OSupporting posts
- OWall joint posts
- OWall joint mouldings OPatched cross bars
- OActual cross bars
- 🐿

In combination with

Burglar-Protection-Doors according to DIN_V_ON_V_1627 with solid wooden frame in combination with Burglar-Protection-Glazing Type 25 V

OWK 2-1 Type 3 N OWK 2-1 Type 13 N OWK 2/3-1 Type 16 N

OWK 2/3-1 Type 5 N

OWK 2/3-2 Type 26 N OWK 2/3-2 Type 6 N

RC2 / RC3 WK 2 / WK 3

Segmentation examples

Segmentation 1 (on request with cross bars) with top panel



Segmentation 2 (on request with cross bars) with side panel





Segmentation 3 (on request with cross bars) with continuous top panel and side panel





Segmentation 4 (on request with cross bars) with top panel and continuous side panel





Segmentation 5 (on request with cross bars) with side panel on both sides





Segmentation 6 (on request with cross bars) with continuous top paneland side panel on both sides





Segmentation 7 (on request with cross bars) with top panel and continuous side panel hinge





Segmentation 8 (on request with cross bars) Configuration according to drawing









25 V

Fixed glazing

Performance overview

RC2 / RC3 WK 2 / WK 3

Main function



Burglar-Protection WK 3Burglar-Protection WK 2

Optional function



- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 32 dB

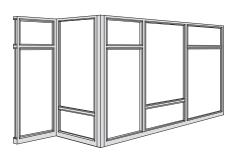
Example of use

Fixed glazing for internal areas

Depending on the pane size (max. 1500 x 3500 mm) and static requirements the arrangement of the bars is possible in any layout.

The single panes can be arranged vertically, on request either in portrait format or landscape format.

From a wall opening height of 3500 mm on vertical posts (40/100) have to be installed, due to static requirements.





Performance profile

Dimensions (mm)	Solid wall Basic dimension BR-width Basic dimension BR-height	unlimited max. 5000
	Gypsum plasterboard wall Basic dimension BR-width Basic dimension BR-height	unlimited max. 5000
	Profile cross-section	≥ 55/73/95
Configuration	Glass	•
	Panel	0
	Coffer	О
	Panel version II	0
Walls	Solid wall	0
	Gasblock concrete wall	0
	Gypsum plasterboard wall	0

In combination with door set (in solid wooden frame)	WK 2-1	Type 3 N	0
	WK 2-1	Type 13 N	О
	WK 2/3-1	Type 16 N	0
	WK 2/3-1	Type 5 N	О
	WK 2/3-2	Type 26 N	0
	WK 2/3-2	Type 6 N	0



Burglar-Protection-Glazing

Information

For additional technical information please see appendix, indicated with







Radiation-Protection-Doors

Content

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		16 N	364
		5 N	366
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		13 N	372
		16 N	374
		5 N	376
		4 N	378
20	2-leaf door	14 N	380
PB		26 N	382
		6 N	384
		50-2	386





Radiation-Protection-Function

According to DIN 6834

Regulations and requirements

DIN 6834 Radiation-Protection-Doors

Radiation-Protection-Door sets with lead inlay are used in order to block x-rays, gamma rays and electron beam rays, predominantly in medically used rooms, for example for diagnostics and therapy rooms.

The Radiation-Protection is achieved by including a lead inlay in the door leaf structure. The thickness of the lead inlay (in mm) is defined by the so called lead equivalent value according to DIN 6845. The lead equivalent value of a door is determined by the sum of the thickness of the two lead inlays in the door leaf.

The required lead equivalent value of a Radiation-Protection-Door is determined by the radiation protection plan according to DIN 6812, 6846 or 6847 for the construction of the according facility. The Radiation-Protection value of the door has to match the lead equivalent value required to shield the radiation on site.

Function

Neither the fittings nor the special equipment must interfer with the doors function or lower the lead equivalent value. The use of lead glazings as vision panel and intercommunication glazing is according to DIN 6841 possible. According to DIN 6834 surface defects of the lead inlay, in the area of the handles and the keyhole drilling, are allowed as long as they are less than 2 mm of the lead equivalent. If the lead equivalent value is 2 mm or more every Radiation-Protection-Door must be equipped with a special lock with shifted follower and cylinder drilling. In general Radiation-Protection-Doors are requested with a lead equivalent value of up to 4 mm.

The radiation barrier of the door must not be disrupted by any angular radiation in the area of the door rebate and the wall connection.

Installation

The cavities between the steel frame and the wall has to be filled either dry, by padding with wooden bars and lead strips or wet by filling the cavities with radiation protection mortar.

CE label

With the introduction of product standards for interior doors (EN 14351-2, publication expected at the end of 2011) and Exterior doors / windows EN 14351-1 (since 02-2010), doors have to be marked with the conformity label "CE". On the CE conformity certification the producer verifies that the relevant element fulfills the performance characteristics according to the stated classifi-cations at the time of delivery.





Radiation-Protection-Doors

Configuration options

PB Solid door

1-leaf door



1-leaf door, with top panel



PB Door with vision panel

1-leaf door



1-leaf door, with top panel



PB Solid door

2-leaf door



PB Door with vision panel

2-leaf door







Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-1 FORM-Radiation-Protection-Door Model 3.00 / 3.10

- Radiation-Protection Lead equivalent value
- 1,0 mm
- O1,5 mm
- O2,0 mm
- **O**3,0 mm **Q**4.0 mm

Optional function

- O Sound-Insulation Rw,P = 32 dB O Burglar-Protection WK 2

Dimensions

					Е	3F	₹-	W	/i	dt	h	Х					. BR-height
(2)																	Throat opening

Walls

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
O Wooden elements	

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey

(optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm Backbend 15 mmwithout floor recess - Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Face screw fasteningAdapter fastening
- Trapezoid anchor fastening
- O Required face width . . . O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Aluminium frames

Anodized or colour powder-coated,

- 3-sided special gasket black
- OWrap-around frame
- OBlock frame with quirk O Round-shaped frame

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Solid door, climate category if
 Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- О७.....

Vision panel

Type of glass

Radiation protection glass (clear glass)

Configuration

- OVision panel, 215/1015 mm
- OPorthole Ø 350 mm
- OLA 300 x 300 mm
- OLA 400 x 400 mm
- OSpecial vision panel size mm Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

- VSX 7939/160 3-d Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.

- OVIELER ER TR 160 337 F 3-d OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge
- Unrebated ■ VSX 7729/160 3-d
- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S. 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge 0

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

Locks

- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlay
- OElectrical strike
- ODoor viewer ORetractable bottom seal (standard for Sound-Insulation function)
- Sill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

Performance overview

Main function



- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2

Models



3.00



3.10



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	500-1375 625-2750
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	436-1311 593-2718
Öi	Door leaf thickness	50
_	Solid door	0
atio	Door with vision panel	0
gura	Style door (profile beads)	0
Configuration	Climate category II	•
O	Stress group E (4)	•

σ,	Rebated	0
Edge	Unrebated	0
"	Unrebated with jamb rebate	0
s	Solid wall	0
Walls	Gasblock concrete wall	0
_	Gypsum plasterboard wall	О
SS	Steel frame	0
Frames	Aluminium frame	0
ᇤ	4-sided frame	0



Radiation-Protection-Doors

Information

For additional technical information please see appendix, indicated with i



Standard On request



Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-1 FORM-Radiation-Protection-Door Model 13.00 / 13.10

- Radiation-Protection Lead equivalent value
- 1,0 mm
- O1,5 mm
- O2,0 mm
- **O**3,0 mm **Q**4.0 mm

Optional function

- O Sound-Insulation Rw,P = 37 dB O Sound-Insulation Rw,P = 42 dB
- O Burglar-Protection WK 2

🕲 Throat opening

- O Solid wall
- O Gasblock concrete wall
- O Gypsum plasterboard wall O Wooden elements
- OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

(M)

- Backbend 15 mm
 without floor recess Backbend 9 mm
- Floor recess 30 mm OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls Face screw fastening

- Adapter fastening
 Trapezoid anchor fastening
- O Required face width /. . . . mm OFrame for reconstruction
- O Configuration in stainless steel
- O 4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Aluminium frames

Anodized or colour powder-coated,

- 3-sided special gasket black
- OWrap-around frame
- OBlock frame with quirk
- O Round-shaped frame

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
 Oppoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O⊚.....

Vision panel

Type of glass

• Radiation protection glass (clear glass)

Configuration

- OVision panel, 215/1015 mm
- OPorthole Ø 350 mm
- OLA 300 x 300 mm
- OLA 400 x 400 mm
- OSpecial vision panel size mm Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

- VSX 7939/160 3-d Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
- OVIELER ER TR 160 337 F 3-d
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- O 🕲

Unrebated

- VSX 7729/160 3-d
- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S. 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge
- 0.....

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated - Stainless steel
- Brass-coloured - Colour-coated

Locks

- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlay
- OElectrical strike
- ODoor viewer ORetractable bottom seal (standard for Sound-Insulation function)
- Sill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

Performance overview

Main function



- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



- O Sound-Insulation Rw,P = 37 dB
- O Sound-Insulation Rw,P = 42 dB



O Burglar-Protection WK 2

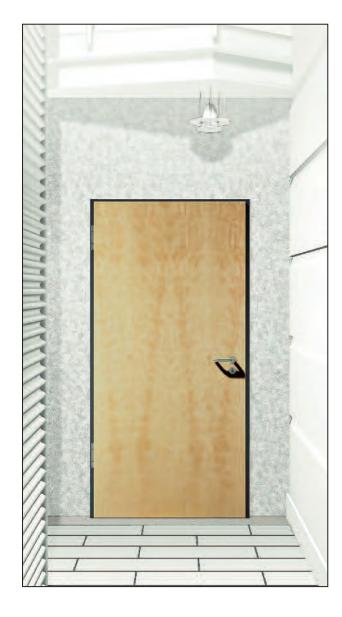
Models



13.00



13.10



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	500-1375 1750-2750
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	436-1311 1718-2718
۵	Door leaf thickness	50
ت	Solid door	0
atio	Door with vision panel	0
Configuration	Style door (profile beads)	0
onfi	Climate category II	•
S	Stress group E (4)	•

	Rebated	0
Edge	Unrebated	0
	Unrebated with jamb rebate	0
s	Solid wall	0
Walls	Gasblock concrete wall	0
_	Gypsum plasterboard wall	О
တ္တ	Steel frame	0
Frames	Aluminium frame	0
<u> </u>	4-sided frame	0



Radiation-Protection-Doors

Information

For additional technical information please see appendix, indicated with i



Standard On request



Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-1 FORM-Radiation-Protection-Door Model 16.00 / 16.10

- Radiation-Protection Lead equivalent value
- 1,0 mm
- O1,5 mm
- O2,0 mm
- **O**3,0 mm
- **Q**4.0 mm

Optional function

- O Sound-Insulation Rw,P = 32 dB O Burglar-Protection WK 2
- OBurglar-Protection WK 3

Dimensions

\otimes					Е	3F	₹-	V	/i	dt	th	Х					. BR-height
																	Throat opening

vvalis
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
O.Woodon olomonto

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm - without floor recess
- Floor recess 30 mm OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls Adapter fastening
- Trapezoid anchor fastening
- O Required face width . . .
- O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Aluminium frames

Anodized or colour powder-coated,

- 3-sided special gasket black
- OWrap-around frame
- OBlock frame with quirk O Round-shaped frame

Door leaf

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
- OSolid door, climate category III

 Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge ∩⊚.....

Vision panel

Type of glass

● Radiation protection glass (clear glass)

Configuration

- OVision panel, 215/1015 mm
- OPorthole Ø 350 mm
- OLA 300 x 300 mm
- OLA 400 x 400 mm OSpecial vision panel size mm

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf

- **O**Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge O 🗞
- Unrebated VSX 7729/160, 3-d.
- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
 O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges
- O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge
- Hinge surface
- Galvanised
- Matt nickel-plated Stainless steel
- Plastic material - Brass-coloured
- Colour-coated

- Locks
- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlay
- OElectrical strike
- ODoor viewer
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



16 N

1-leaf door

Performance overview

PB

Main function



 Radiation-Protection Lead equivalent value

- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2

O Burglar-Protection WK 3

Models



16.00



16.10



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 625-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1436 593-3468
۵i	Door leaf thickness	70
	Solid door	0
lon	Door with vision panel	0
ırat	Style door (profile beads)	0
Configuration	Climate category II	•
Cor	Climate category III	0
	Stress group E (4)	•

d)	Rebated	0
Edge	Unrebated with jamb rebate	0
ш	Double-rebated	0
'n	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
S	Steel frame	0
Frames	Aluminium frame	0
Ϋ́	4-sided frame	0



Radiation-Protection-Doors

Information

For additional technical information please see appendix, indicated with i



Standard On request



Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-1 FORM-Radiation-Protection-Door Model 5.00 / 5.10 • Radiation-Protection Lead equivalent value

- 1.0 mm
- O1,5 mm
- O2,0 mm
- **3,0** mm
- **Q**4.0 mm

Optional function

- O Sound-Insulation Rw,P = 45 dB O Sound-Insulation Rw,P = 42 dB O Sound-Insulation Rw,P = 37 dB
- OBurglar-Protection WK 2
- OBurglar-Protection WK 3

Dimensions

1					В	К	-V	۷İ	di	th	1	Х					. BR-height
																	Throat opening

Walls

O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)

O Wooden elements OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm - without floor recess
- Floor recess 30 mm OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
 O Frame for installation in existing walls
- Adapter fastening
 Trapezoid anchor fastening
- O Required face width
- OFrame for reconstruction
- O Configuration in stainless steel
- Q4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Aluminium frames

Anodized or colour powder-coated,

- 3-sided special gasket black
- OWrap-around frame
- OBlock frame with quirk
- O Round-shaped frame

Door leaf thickness about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
 Double-rebated (D)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel up to Rw,P = 37 dB
- with coffer up to Rw,P = 37 dB
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

Radiation protection glass (clear glass)

Configuration

- OVision panel, 215/1015 mm OPorthole Ø 350 mm
- OLA 300 x 300 mm
- OLA 400 x 400 mm
- OSpecial vision panel size mm
 - Glazing beads
 - OSolid wood veneered
 - OSolid wood
 - OAluminium untreated/anodized
 - OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL) 0.8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB

• VSX 7939/160, 3-d.

- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge Solutional 3rd hinge

Hinge surface

- Plastic material Matt nickel-plated - Brass-coloured Stainless steel
- Galvanised

● VSX 7729/160, 3-d. ○ VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

Additional 3rd hinge

O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges

O HEWI B9107.160 VX, 3-d

Locks

- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlay
- OElectrical strike
- ODoor viewer ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

Performance overview

PB

Main function



- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB



- O Burglar-Protection WK 2 O Burglar-Protection WK 3

Models



5.00



5.10

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 625-3000
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	561-1436 593-2968
Din	Door leaf thickness	70
	Solid door	0
ion	Door with vision panel	0
ırat	Style door (profile beads)	0
Configuration	Climate category II	•
Cor	Climate category III	О
	Stress group E (4)	•

4)	Rebated	0
Edge	Unrebated with jamb rebate	0
ш	Double-rebated	0
"	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
S	Steel frame	0
Frames	Aluminium frame	0
Ŗ	4-sided frame	0







Tender sprcifications

Information

For additional technical information please see appendix, indicated with



PB 50-1 FORM-Radiation-Protection-Door Model 50-1.00

- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- **O**2,0 mm
- O3,0 mm
- O4,0 mm

Optional function

- O Sound-Insulation Rw,P = 50 dB
- O Sound-Insulation Rw,P = 48 dB OBurglar-Protection WK 2
- O Burglar-Protection WK 3

Dimensions

	 BR-width x	BR-height
	 	Throat opening

Walls

Trano	
O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wa	II (L)
O Wooden elements	

OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm - Backbend 15 mm - Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- O Steel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Door leaf

Door leaf thickness about 91 mm

- Double-rebated (D)
- Solid door, climate category II
- OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Surfaces

Door leaf

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160/4 mm, hinge base 3D adjustable

- Double-rebated

 FORM-VX7939/160 FD
- OVX 7939/160-4 N FD, 3-d.
- OBSW 090-21 VX FD, 3-d. OAdditional 3rd hinge
- OAdditional 4th hinge
- O®.....

Hinge surface

- Galvanised
- Matt nickel-plated Brass-coloured Stainless steel
 - Colour-coated

Locks

- Lock according to DIN 18251, with latch function, backset 80 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm
- OLock with special security equipment OTriple bolting

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlayOElectrical strike
- ODoor viewer
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

50-1

1-leaf door

Performance overview

Main function



- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



- O Sound-Insulation Rw,P = 50 dB
- O Sound-Insulation Rw,P = 48 dB



- O Burglar-Protection WK 2
- O Burglar-Protection WK 3

Models



50-1.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-1500 1750-3000
Dimensions	Clear passage LD-width Clear passage LD-height	791-1405 1703-2963
٦	Door leaf thickness	91
_	Solid door	0
atio	Style door (profile beads)	0
gur	Climate category II	•
Configuration	Climate category III	0
ပ	Stress group E (4)	•

Edge	Double-rebated	•
"	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum Plasterboard wall	О
Frames	Steel frame	0



Radiation-Protection-Doors

For additional technical information please see appendix, indicated with i



Standard O On request



1-leaf door, with top panel

Tender specifications

Door leaf

Rebated (F)

Unrebated (S)

one-/two-sided

wood panelling

OVeneer edge

Vision panel

Type of glass

Configuration

OSolid wood

Top panel OTop panel

Surfaces

OVeneer

Untreated

OColour-coated

- Counter-rebated

Door leaf/Top panel

- Transparently coated

Stained/transparently coated

OHigh pressure laminate (HPL), 0,8 mm OOn site coating/undercoating foil

with profile beads

ODoor with vision panel

OPlastic material edge

OColour-coated edge

O.....

OVision panel, 215/1015 mm

OAluminium untreated/anodized OStainless steel (porthole Ø 350 mm)

OPorthole Ø 350 mm

OLA 300 x 300 mm

OLA 400 x 400 mm

OSolid wood veneered

Radiation protection glass (clear glass)

OSpecial vision panel size mm Glazing beads

OStyle door

Edges

Door leaf thickness about 50 mm

Unrebated with jamb rebate (S)

Stress group E (4)
 Oboor with holohedral additional wood panelling,

with frame-like and/or fielded additional

Solid wood batten, white/red wood, 3-sided

Solid door, climate category II

Information

For additional technical information please see appendix, indicated with



PB-1 FORM-Radiation-Protection-Door Model 3.01 / 3.11

●Radiation-Protection

Lead equivalent value

● 1,0 mm

O1,5 mm

O2,0 mm

O3,0 mm **Q**4.0 mm

Optional function

O Sound-Insulation Rw,P = 32 dB

🕲 BR-width x BR-height

O Solid wall O Gasblock concrete wall

(M)(M) (L)

O Gypsum plasterboard wall O Wooden elements

OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

Backbend 9 mm
 Floor recess 30 mm
 Backbend 15 mm
 without floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

- Standard installation

- Installation in hallways

O Round-shaped frame

O Face expansion.

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

OFrame for installation in existing walls

Adapter fastening

- Trapezoid anchor fastening (top panel)
O Required face width . . . /. . . mm
O Frame for reconstruction

O Configuration in stainless steel

O4-sided frame

OSheet thickness 2 mm

O Backbend up to 25 mm

O Lead inlay in frame, max. of 4 mm

Hinges Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated

■ VSX 7939/160 3-d

OBSW 060-21 VX, 3-d.

Ovx 7939/160, 3-d.

OVIELER ER.TB.160.337.F. 3-d.

OHEWI B8107.160 VX, 3-d.

OAdditional 3rd hinge O[®] Unrebated

■ VSX 7729/160 3-d

O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S. 3-d. O Concealed hinges

O HEWI B9107.160 VX, 3-d.

O Additional 3rd hinge 0

Hinge surface

Galvanised Plastic material

Matt nickel-plated - Brass-coloured Stainless steel Colour-coated

Locks

- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlay
- OElectrical strike
- ODoor viewer
- ORetractable bottom seal (standard for Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



Radiation-Protection-Doors

1-leaf door, with top panel

Performance overview

Main function



- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

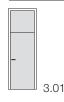
Optional function

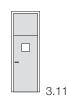


O Sound-Insulation Rw,P = 32 dB



Models





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1375 2000-3500
Dimensions	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1311 1968-2968 1718-2718
Ē	Door leaf thickness	50
ے	Solid door	0
atio	Door with vision panel	0
igur	Style door (profile beads)	0
Configuration	Climate category II	•
O	Stress group E (4)	•

4	Rebated	О
Edge	Unrebated	0
ш	Unrebated with jamb rebate	0
"	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
rames	Steel frame	0
Frar	4-sided frame	0



For additional technical information please see appendix, indicated with i



Standard On request



1-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-1 FORM-Radiation-Protection-Door

Model 13.01 / 13.11 ● Radiation-Protection

Lead equivalent value

● 1,0 mm

O 1,5 mm

O2,0 mm

O3,0 mm

O4,0 mm

Optional function

O Sound-Insulation Rw,P = 37 dB

Dimensions

					Е	3F	₹-	W	۷İ٥	tb	th	Х					. BR-height
																	Throat opening

vvalis	
O Solid wall	(M)
O Gasblock concrete wall	(M)
O Gypsum plasterboard wall	(L)
OWooden elements	

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm

- Backbend 15 mm without floor recess
- Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion. . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fasteningTrapezoid anchor fastening (top panel) O Required face width / . . . mm
- OFrame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
 Oboor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

Radiation protection glass (clear glass)

Configuration

- OVision panel, 215/1015 mm
- OPorthole Ø 350 mm
- OLA 300 x 300 mm
- OLA 400 x 400 mm
- OSpecial vision panel size mm Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated

Surfaces

Door leaf/Top panel

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated

- VSX 7939/160 3-d
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F. 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge O[®]

Unrebated ■ VSX 7729/160 3-d

- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S. 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge 0

Hinge surface

- Galvanised
- Plastic material - Brass-coloured
- Matt nickel-plated Stainless steel
- Colour-coated

Locks

- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlay
- OElectrical strike
- ODoor viewer ORetractable bottom seal
- (standard for Sound-Insulation function) OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

13 N

1-leaf door, with top panel

Performance overview

Main function



- Radiation-Protection
- Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm O 3,0 mm
- O 4,0 mm

Optional function



O Sound-Insulation Rw,P = 37 dB



Models





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	500-1375 2000-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	436-1311 1968-3468 1718-2718
Ē	Door leaf thickness	50
ū	Solid door	0
atio	Door with vision panel	0
Configuration	Style door (profile beads)	0
onf	Climate category II	•
0	Stress group E (4)	О

0	Rebated	0
Edge	Unrebated	0
	Unrebated with jamb rebate	0
"	Solid wall	0
Walls	Gasblock concrete wall	0
	Gypsum plasterboard wall	0
rames	Steel frame	0
Frar	4-sided frame	О



Radiation-Protection-Doors

For additional technical information please see appendix, indicated with i



Standard On request



1-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-1 FORM-Radiation-Protection-Door

Model 16.01 / 16.11 Radiation-Protection

Lead equivalent value

● 1,0 mm

O 1,5 mm

O2,0 mm

O3,0 mm O4,0 mm

Optional function

O Sound-Insulation Rw,P = 32 dB

Dimensions

					Е	3F	₹-	W	۷İ٥	tb	th	Х					. BR-height
																	Throat opening

**uno
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wal
O.Wooden elements

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 15 mm - without floor recess - Backbend 9 mm

- Floor recess 30 mm OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

O Steel block frame

- Standard installation

Installation in hallways O Round-shaped frame

O Face expansion. . . . /. mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

Adapter fasteningTrapezoid anchor fastening (top panel)

O Required face width / . . . mm

OFrame for reconstruction

O Configuration in stainless steel

O4-sided frame

O Sheet thickness 2 mm

OBackbend up to 25 mm

O Lead inlay in frame, max. of 4 mm

Door leaf

Door leaf thickness about 70 mm

Rebated (F)

Unrebated with jamb rebate (S)

Double-rebated (D)

Solid door, climate category II

OSolid door, climate category III

Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

 with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

Radiation protection glass (clear glass)

Configuration

OVision panel, 215/1015 mm

OPorthole Ø 350 mm

OLA 300 x 300 mm

OLA 400 x 400 mm OSpecial vision panel size mm

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

OTop panel

- Counter-rebated and double-rebated

Door leaf / Top panel

OVeneer

Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable

Rebated

● VSX 7939/160, 3-d. Ovx 7939/160, 3-d.

OBSW 060-21 VX, 3-d.
OVIELER ER.TB.160.337.F, 3-d.

OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

Unrebated

VSX 7729/160, 3-d. O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d. OVIELER ER.TB.160.332.S. 3-d.

O Concealed hinges O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

Hinge surface

Galvanised Matt nickel-plated

Plastic material

Stainless steel

- Brass-coloured Colour-coated

Locks

OLock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder

OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlay
- OElectrical strike
- ODoor viewer
- ORetractable bottom seal (standard for Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

Radiation-Protection-Doors

16 N

1-leaf door, with top panel

Performance overview

Main function

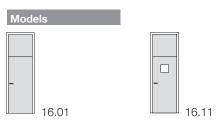


- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



O Sound-Insulation Rw,P = 32 dB





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-4000			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-3968 1718-3468			
قا	Door leaf thickness	70			
	Solid door	О			
ion	Door with vision panel	0			
Configuration	Style door (profile beads)	О			
ıfigı	Climate category II	•			
Sol	Climate category III	О			
	Stress group E (4)	•			

4)	Rebated	0
Edge	Unrebated with jamb rebate	О
3	Double-rebated	0
S	Solid wall	О
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	О
-rames	Steel frame	0
Frai	4-sided frame	О



Information

For additional technical information please see appendix, indicated with i



 Standard 	O On request



1-leaf door, with top panel

Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-1 FORM-Radiation-Protection-Door

Model 5.01 / 5.11

 Radiation-Protection Lead equivalent value

● 1,0 mm

O 1,5 mm

O2,0 mm **3.0** mm

O4,0 mm

Optional function

O Sound-Insulation Rw,P = 45 dB

O Sound-Insulation Rw,P = 42 dB

O Sound-Insulation Rw,P = 37 dB

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L)

O Wooden elements OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Backbend 15 mmwithout floor recess - Floor recess 30 mm

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

O Steel block frame

Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion.

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

OFrame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening

O Required face width . .

O Frame for reconstruction O Configuration in stainless steel

O4-sided frame

OSheet thickness 2 mm

OBackbend up to 25 mm

O Lead inlay in frame, max. of 4 mm

Door leaf

Door leaf thickness about 70 mm

Rebated (F)

Unrebated with jamb rebate (S)

Double-rebated (D)

Solid door, climate category II

Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

with panel up to Rw,P = 37 dB

- with coffer up to Rw,P = 37 dB

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OVeneer edge

OPlastic material edge

OColour-coated edge

O.

Vision panel

Type of glass

Radiation protection glass (clear glass)

Configuration

OVision panel, 215/1015 mm

OPorthole Ø 350 mm

OLA 300 x 300 mm OLA 400 x 400 mm

OSpecial vision panel size mm

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized OStainless steel (porthole Ø 350 mm)

OTop panel

Counter-rebated and double-rebated

Door leaf / Top panel

OVeneer

- Transparently coated

Stained/transparently coated

OHigh pressure laminate (HPL), 0,8 mm

On site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated / Double-rebated Unrebated

for Rw,P = 42 dB

● VSX 7729/160, 3-d.

VX 7939/160 FD, 3-d.

VSX 7939/160, 3-d.

OBSW 060-21 VX FD, 3-d. for Rw,P = 37 dB

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

OVX 7939/160, 3-d.

OVIELER ER.TB.160.332.S, 3-d. O SIMONS Globus STUG 160.4.xx VX, 3-d. O Concealed hinges

O HEWI B9107.160 VX, 3-d. OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d. O Additional 3rd hinge O SIMONS Globus FUG 160.4.xx VX, 3-d. O $\$

- Colour-coated

OHEWI B8107.160 VX, 3-d.

OAdditional 3rd hinge

Stainless steel

Hinge surface Galvanised

- Plastic material Matt nickel-plated - Brass-coloured Locks

 Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder

OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm

Galvanised

Stainless steel

- Brass-plated

Special equipment

Lead inlay

ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)

OBolt contact

OCable channel

OSecurity bolts

Forend surface

OElectrical strike

ODoor viewer

OSill seal with aluminium threshold

OMagnetic contact

OConcealed cable transition

OKick plate (aluminium/stainless steel)



1-leaf door, with top panel

Performance overview

Main function



- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



- O Sound-Insulation Rw,P = 45 dB
- O Sound-Insulation Rw,P = 42 dB
- O Sound-Insulation Rw,P = 37 dB









Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 1750-3500
Dimensions	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1436 1968-3468 1718-2968
Ē	Door leaf thickness	70
	Solid door	О
<u>io</u>	Door with vision panel	0
Configuration	Style door (profile beads)	0
Jigir	Climate category II	•
Col	Climate category III	О
	Stress group E (4)	•

0	Rebated	0
Edge	Unrebated with jamb rebate	0
	Double-rebated	0
w	Solid wall	0
Walls	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
Frames	Steel frame	0
Frai	4-sided frame	0



Radiation-Protection-Doors

Information

For additional technical information please see appendix, indicated with i







Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-2 FORM-Radiation-Protection-Door

Model 4.00 / 4.10

 Radiation-Protection Lead equivalent value

● 1,0 mm

O 1,5 mm

O2,0 mm

O3,0 mm O4,0 mm

Optional function

O Sound-insulation Rw,P = 32 dB

Dimensions

					Е	BF	₹-	W	/io	dt	h	Х					. BR-height
																	Throat opening

Walls
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wa
O Wooden elements
OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm

- Backbend 15 mm - without floor recess - Floor recess 30 mm

OSteel wrap-around frame, for solid wall OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

- Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion. . . . /. mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

OFrame for installation in existing walls

Face screw fastening

Adapter fastening
Trapezoid anchor fastening

O Required face width

OFrame for reconstruction

O Configuration in stainless steel

O4-sided frame

O Sheet thickness 2 mm

OBackbend up to 25 mm

O Lead inlay in frame, max. of 4 mm

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)

Unrebated (S)

Solid door, climate category II

• Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

- with profile beads

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges
Solid wood batten, white/red wood, 3-sided

OVeneer edge

OPlastic material edge

OColour-coated edge

O....

Vision panel

Type of glass

Radiation protection glass (clear glass)

Configuration
OVision panel, 215/1015 mm
OPorthole Ø 350 mm

OLA 300 x 300 mm OLA 400 x 400 mm

OSpecial vision panel size mm

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Top panel

Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, optionally with

hinge base 3D adjustable Rebated

● VSX 7939/160, 3-d. OFORM-VX7939/160

Ovx 7939/160, 3-d.

OBSW 060-21 VX, 3-d.
OVIELER ER.TB.160.337.F, 3-d.

OHEWI B8107.160 VX, 3-d.

OAdditional 3rd hinge

Unrebated ● VSX 7729/160, 3-d.

O FORM-VX7729/160

O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S. 3-d.

O Concealed hinges

O HEWI B9107.160 VX, 3-d.

O Additional 3rd hinge

Hinge surface Galvanised

Matt nickel-plated Stainless steel

Brass-coloured - Colour-coated

Locks

- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm

Olnactive leaf with shot-bolt lock

OTriple bolting Forend surface

- Galvanised Stainless steel
- Brass-plated

Special equipment

Lead inlayElectrical strike

ODoor viewer

ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)

OSill seal with aluminium threshold

OBlock lock

OBolt contact

OMagnetic contact

OCable channel

OConcealed cable transition

OSecurity bolts

OKick plate (aluminium/stainless steel)

Performance overview

PB

Main function

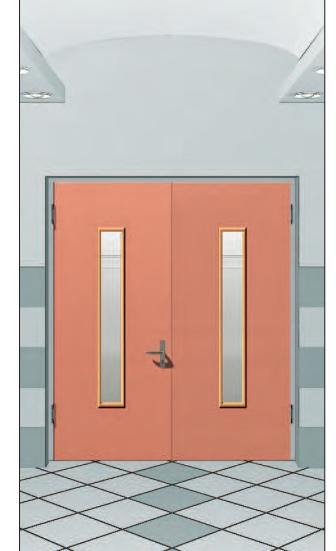


- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



 \odot Sound-insulation Rw,P = 32 dB



Models



4.00



Performance profil

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 1750-2750			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	811-2686 1718-2718			
Oin	Door leaf thickness	50			
L	Solid door	0			
atio	Tür mit Lichtausschnitt	0			
gur	Style door (profile beads)	0			
Configuration	Climate category II	•			
O	Stress group E (4)	•			

Edge	Rebated	0
В	Unrebated	О
w	Solid wall	0
Walls	Gasblock concrete wall	0
۸	Gypsum plasterboard wall	0
Frames	Steel frame	0
Fra	4-sided frame	0



Radiation-Protection-Doors

Information



Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-2 FORM-Radiation-Protection-Door

- Model 14.00 / 14.10 Radiation-Protection
- Lead equivalent value
- 1,0 mm
- O 1,5 mm
- **O**2,0 mm
- O3,0 mm
- O4,0 mm

Optional function

O Sound-insulation Rw,P = 37 dB

Dimensions

	BR-width x	BR-height
		Throat opening

Walls
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wal
OWooden elements

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm
- Backbend 15 mm without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion. . . . /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Face screw fastening
- Adapter fastening
 Trapezoid anchor fastening
- O Required face width
- OFrame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges
Solid wood batten, white/red wood, 3-sided

- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O....

Vision panel

Type of glass

Radiation protection glass (clear glass)

- Configuration
 OVision panel, 215/1015 mm
 OPorthole Ø 350 mm
- OLA 300 x 300 mm
- OLA 400 x 400 mm
- OSpecial vision panel size mm

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Top panel

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, optionally with hinge base 3D adjustable

Rebated

- VSX 7939/160, 3-d. OFORM-VX7939/160
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Unrebated

- VSX 7729/160, 3-d. O FORM-VX7729/160
- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
- OVIELER ER.TB.160.332.S. 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge
- Hinge surface Galvanised
- Matt nickel-plated Stainless steel
- Brass-coloured - Colour-coated

Locks

- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm
- Olnactive leaf with shot-bolt lock
- OTriple bolting

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlayElectrical strike
- ODoor viewer
- ORetractable bottom seal (standard with Smoke-
- Protection and Sound-Insulation function) OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

14 N

2-leaf door

Performance overview

PB

Main function



- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



O Sound-insulation Rw,P = 37 dB

Models



14.00



14.10

Performance profil

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 1750-2750
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	811-2686 1718-2718
Öi	Door leaf thickness	50
L	Solid door	0
atio	Tür mit Lichtausschnitt	0
Configuration	Style door (profile beads)	О
onfi	Climate category II	•
O	Stress group E (4)	•

Edge	Rebated	0
B	Unrebated	0
Walls	Solid wall	0
	Gasblock concrete wall	0
	Gypsum plasterboard wall	О
-rames	Steel frame	О
-ra	4-sided frame	0



Radiation-Protection-Doors

Information

For additional technical information please see appendix, indicated with i





Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-2 FORM-Radiation-Protection-Door

- Model 26.00 / 26.10 Radiation-Protection
- Lead equivalent value
- 1,0 mm
- O 1,5 mm
- **O**2,0 mm
- O3,0 mm
- O4,0 mm

Optional function

- O Sound-insulation Rw,P = 32 dB
- OBurglar-protection WK 2
- OBurglar-protection WK 3

Dimensions

BR-width	X	BR-height
		Throat opening

Walls
O Solid wall
O Gasblock concrete wall
OGypsum plasterboard wall
O Wooden elements

OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

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- Backbend 9 mm Backbend 15 mmwithout floor recess
- Floor recess 30 mm
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm

- O Steel block frame

 Standard installation

 Installation in ballward Installation in hallways
- O Round-shaped frame
- O Face expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- OFrame for installation in existing walls
- Face screw fastening
- Adapter fastening
- Trapezoid anchor fastening
- O Required face width O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm O Lead inlay in frame, max. of 4 mm

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- OSolid door, climate category III
- Stress group E (4)

 ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

• Radiation protection glass (clear glass)

Configuration

- OVision panel, 215/1015 mm
- OPorthole Ø 350 mm
- OLA 300 x 300 mm
- OLA 400 x 400 mm
- OSpecial vision panel size mm Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Top panel

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, optionally with

hinge base 3D adjustable

Rebated

- VSX 7939/160 3-d OFORM-VX7939/160
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX. 3-d.
- OVELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge О፟፟፟፟፟

Unrebated

- VSX 7729/160, 3-d. O FORM-VX7729/160
- O VX 7729/160, 3-d.
- O BSW 060-22 VX 3-d
- OVIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
- O HEWI B9107,160 VX, 3-d,
- O Additional 3rd hinge 0 №

Hinge surface

- Matt nickel-plated
- Plastic material - Brass-coloured
- Stainless steel
- Colour-coated

Locks

- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm
- Olnactive leaf with shot-bolt lock OTriple bolting

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlayOElectrical strike
- ODoor viewer
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel)

26 N

2-leaf door

Performance overview

Main function



- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



O Sound-insulation Rw,P = 32 dB



- O Burglar-protection WK 2
- O Burglar-protection WK 3

Models



26.00



26.10



Performance profil

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 1750-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 1718-3468
۵	Door leaf thickness	70
	Solid door	0
ion	Tür mit Lichtausschnitt	0
ırat	Style door (profile beads)	0
Configuration	Climate category II	•
S	Climate category III	0
	Stress group E (4)	•

4)	Rebated	0
Edge	Unrebated with jamb rebate	0
	Double rebated	0
Walls	Solid wall	0
	Gasblock concrete wall	0
>	Gypsum plasterboard wall	0
Frames	Steel frame	0
Fra	4-sided frame	0



Radiation-Protection-Doors

Information

For additional technical information please see appendix, indicated with i





Tender specifications

Information

For additional technical information please see appendix, indicated with



PB-2 FORM-Radiation-Protection-Door

Model 6.00 / 6.10

 Radiation-Protection Lead equivalent value

● 1,0 mm

O 1,5 mm

O2,0 mm

O3,0 mm

O4,0 mm

Optional function

O Sound-insulation Rw,P = 45 dB

OSound-insulation Rw,P = 42 dB O Sound-insulation Rw,P = 37 dB

O Burglar-protection WK 2

O Burglar-protection WK 3

Dimensions

O Solid wall O Gasblock concrete wall

(M) O Gypsum plasterboard wall

O Wooden elements OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

(M)

(L)

- Backbend 9 mm

Backbend 15 mmwithout floor recess

Floor recess 30 mm

OSteel wrap-around frame, for solid wall

O Steel wrap-around frame.

for gypsum plasterboard wall O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion . .

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

OFrame for installation in existing walls

Face screw fastening

Adapter fastening
Trapezoid anchor fastening

O Required face width /. . . . mm

O Frame for reconstruction

O Configuration in stainless steel

O4-sided frame

O Sheet thickness 2 mm OBackbend up to 25 mm

O Lead inlay in frame, max. of 4 mm

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)

Unrebated with jamb rebate (S)

Solid door, climate category II

OSolid door, climate category III

Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OVeneer edge

OPlastic material edge

OColour-coated edge

O.

Vision panel

Type of glass

Radiation protection glass (clear glass)

Configuration

OVision panel, 215/1015 mm

OPorthole Ø 350 mm

OLA 300 x 300 mm

OLA 400 x 400 mm

OSpecial vision panel size mm Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Top panel

OVeneer

- Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

On site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, optionally with

hinge base 3D adjustable

Rebated

■ VSX 7939/160 3-d OFORM-VX7939/160

Ovx 7939/160, 3-d.

OBSW 060-21 VX. 3-d.

OVELER ER.TB.160.337.F, 3-d.

OHEWI B8107.160 VX, 3-d.

OAdditional 3rd hinge О..... Unrebated

VSX 7729/160, 3-d. O FORM-VX7729/160

O VX 7729/160, 3-d.

O BSW 060-22 VX 3-d

OVIELER ER.TB.160.332.S, 3-d.

O Concealed hinges O HEWI B9107,160 VX, 3-d,

O Additional 3rd hinge 0 №

Hinge surface

Matt nickel-plated

Plastic material

Stainless steel

- Brass-coloured Colour-coated

Locks

- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm

Olnactive leaf with shot-bolt lock OTriple bolting

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlayElectrical strike
- ODoor viewer
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

Performance overview

Main function



- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



- O Sound-insulation Rw,P = 45 dB
- O Sound-insulation Rw,P = 42 dB
- O Sound-insulation Rw,P = 37 dB



- O Burglar-protection WK 2
- O Burglar-protection WK 3

Models



6.00







Performance profil

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 1750-3500			
Dimensions (mm)	Clear passage LD-width Clear passage LD-height	936-2936 1718-3468			
Oin	Door leaf thickness	70			
	Solid door	0			
ioi	Tür mit Lichtausschnitt	0			
ırat	Style door (profile beads)	О			
Configuration	Climate category II	•			
Ö	Climate category III	0			
	Stress group E (4)	•			

4)	Rebated	0
Edge	Unrebated with jamb rebate	О
	Double rebated	0
Walls	Solid wall	О
	Gasblock concrete wall	0
>	Gypsum plasterboard wall	О
Frames	Steel frame	0
Frar	4-sided frame	0



Radiation-Protection-Doors

Information

For additional technical information please see appendix, indicated with i







Tender specifications

Information

For additional technical information please see appendix, indicated with



PB 50-2 FORM-Radiation-Protection-Door Model 50-2.00

- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1.5 mm
- **O**2,0 mm
- O3,0 mm
- O4,0 mm

Optional function

- O Sound-insulation Rw,P = 50 dB
- O Sound-insulation Rw,P = 48 dB O Burglar-protection WK 2
- O Burglar-protection WK 3

Dimensions

					Е	BF	}-	W	ίc	tt	h	Χ					. BR-height
																	Throat opening

Walls

O Solid wall	
O Gasblock concrete wall	
O Gypsum plasterboard wall	
O.Wooden elements	

OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm
- Backbend 15 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm O Steel block frame
- Standard installation
- Installation in hallways O Round-shaped frame
- O Face expansion /. mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Face screw fastening
- Adapter fastening
- Trapezoid anchor fastening
 O Required face width /.
- '. . . . mm
- O Frame for reconstruction
- O Configuration in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm
- O Lead inlay in frame, max. of 4 mm

Door leaf

Door leaf thickness about 50 mm

- Double rebated D)
- Solid door, climate category II
- OSolid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges
Solid wood batten, white/red wood, 3-sided

- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- O.....

Vision panel

Type of glass

Radiation protection glass (clear glass)

- Configuration
 OVision panel, 215/1015 mm
 OPorthole Ø 350 mm
- OLA 300 x 300 mm
- OLA 400 x 400 mm
- OSpecial vision panel size mm

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Top panel

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, optionally with

hinge base 3D adjustable

- Double rebated
- FORM-VX7939/160 FD OVX 7939/160-4 N FD, 3-d.
- OBSW 090-21 VX FD, 3-d. OAdditional 3rd hinge
- OAdditional 4th hinge

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated Brass-coloured - Stainless steel
 - Colour-coated

Locks

- Lock according to DIN 18251, with latch function, backset 65 mm, prepared for profile cylinder
- OSpecial lock with shifted handles backset 40/80 mm prepared for profile cylinders from lead equivalent value ≥ 2 mm
- Olnactive leaf with shot-bolt lock
- OTriple bolting

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- Lead inlayElectrical strike
- ODoor viewer
- ORetractable bottom seal (standard with Smoke-Protection and Sound-Insulation function)
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

50-2

2-leaf door

Performance overview

Main function



- Radiation-Protection Lead equivalent value
- 1,0 mm
- O 1,5 mm
- O 2,0 mm
- O 3,0 mm
- O 4,0 mm

Optional function



- O Sound-insulation Rw,P = 50 dB
- O Sound-insulation Rw,P = 48 dB

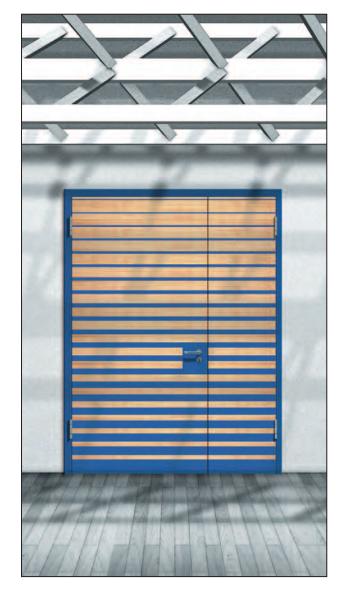


- O Burglar-protection WK 2
- O Burglar-protection WK 3

Models



50-2.00



Performance profil

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 1750-3500			
Dimensions	Clear passage LD-width Clear passage LD-height	936-2936 1718-3468			
Öi	Door leaf thickness	70			
L	Solid door	0			
atio	Style door (profile beads)	0			
Configuration	Climate category	•			
onfi	Climate category	0			
O	Stress group E (4)	•			

Edge	Double rebated	•
"	Solid wall	0
Walls	Gasblock concrete wall	0
	Gypsum plasterboard wall	0
Frames	Steel frame	0
Fran	4-sided frame	0



Radiation-Protection-Doors





Bullet-Resistant-Doors Content

Function	Configuration	Туре	Page
DT	1-leaf door	3 N	392





Bullet-Resistant-Doors

Resistance class M 3

Regulations and requirements

Resistance class M 3

The requirements of the bullet resistance class M 3 are met, on the basis of the tests of the resistance class C 3 according to DIN 52290, part 2 (attack-blocking glazings).

Depending on the type of the operational demands (bore, bullet type) the bullet resistance class is determined. In order to confirm the resistance class M 3 a heavy handgun, bore "44 Magnum" (revolver, pan headed full metal jacket with a soft core) is fired off from a 3 meter distance.

Function

Bullet-Resistant-Doors are used in areas with increased security requirements against intrusions and raids. Examples are banks, savings banks, airports, police stations, ministries and embassies.

Installation

The installation of Bullet-Resistant-Doors is only possible with steel frame in solid walls.

CE label

With the introduction of product standards for interior doors (EN 14351-2, publication expected at the end of 2011) and Exterior doors / windows EN 14351-1 (since 02-2010), doors have to be marked with the conformity label "CE". On the CE conformity certification the producer verifies that the relevant element fulfills the performance characteristics according to the stated classifications at the time of delivery.







Bullet-Resistant-Doors Configuration options

DT Solid door 1-leaf door







Tender specifications



Information

For additional technical information please see appendix, indicated with



DT-1 FORM-Bullet-Resistant-Door Model 3.00

Approval

● Beschußamt Ulm Approval No. 5220/M 80 001 Delignit armoured wood

Optional function

- O Sound-Insulation Rw,P = 32 dB O Burglar-Protection WK 2
- OBurglar-Protection WK 3

Dimensions

					Е	3F	₹-	W	/ic	dt	h	Х		 	 		. BR-height
																	Throat opening

Walls

O Solid wall

(M)

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Backbend 9 mmFloor recess 30 mm
- OSteel wrap-around frame, for solid wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame
- Standard installationInstallation in hallways
- O Round-shaped frame
- OFace expansion . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Required face width . . . / . . . mm
 O Configuration in stainless steel
 O 4-sided frame

- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Door leaf

Door leaf thickness about 50 mm

- Rebated (F)
- Solid door, climate category II
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with frame-like and/or fielded additional wood panelling

Edges

- Veneer edgeOPlastic material edgeOColour-coated edge
- O.....

Surfaces

Door leaf

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable Rebated

- VX 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.335.F, 3-d.
- OSIMONS FUK 160.4.xx VX, 3-d
- OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Hinge surface

- Galvanised
- Plastic material
- Matt nickel-plated Brass-coloured Stainless steel
 - Colour-coated

Locks

- Lock according to DIN 18251, class 3 with latch function, backset 65 mm, prepared for profile cylinder
- OLock with special security equipment OTriple bolting

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- OElectrical strike
- ODoor viewer
- OClimate category III
- ORetractable bottom seal
- (standard for Sound-Insulation function)
 OSill seal with aluminium threshold
- OBlock lock (manually operated)
- OBolt contact
- OMagnetic contact
- OSecurity bolts
- OKick plate (aluminium/stainless steel)

Bullet-Resistant-Doors

1-leaf door

Performance overview

Main function



Bullet-Resistant M 3

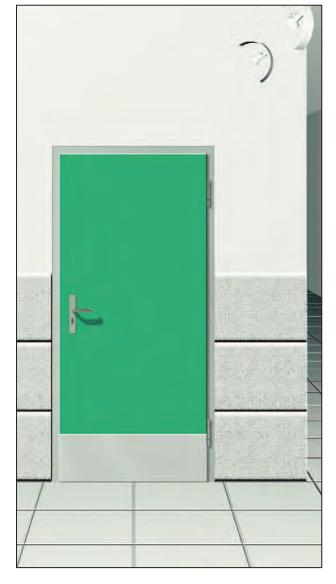
Optional function



O Sound-Insulation Rw,P = 32 dB



O Burglar-Protection WK 2 O Burglar-Protection WK 3



Models



3.00

Performance profile

s (mm)	Basic dimension Basic dimension	625-1000 1750-2125		
Dimensions (mm)	Clear passage Clear passage	561- 936 1718-2093		
Ωir	Door leaf thickness	50		
ion	Solid door	О		
ırat	Style door (profile	0		
Configuration	Climate category	•		
ပိ	Stress group E (4	•		

Edge	Rebated	•
Walls	Solid wall	•
Frames	Steel frame	•
Fran	4-sided frame	О



Information

For additional technical information please see appendix, indicated with i



Standard On request



Wet Room Doors

Content

Function	Configuration	Туре	Page
	1-leaf door	1 N	398
NT	1-leaf door	3 N	400
	1-leaf door, with top panel	3 N	402





Wet Room qualification

Splash water durable

Regulations and requirements

Wet Room Doors

The installation of Wet Room Doors is especially sensible and recommended in internal spaces with a high humidity, such as damp or wet rooms. Example are sanitary facilities, shower rooms, sauna facilities and indoor swimming pools, sports halls, hospitals and hotels.

The door leaf design of Wet Room Doors does not consist of wood or wooden materials, but exclusively of plastic materials. As top layer only HPL sheets are used, because veneer would due to hygroscopicity (its characteristic to soak up and bind water) swell up and therefore rip open the lacquer finish.

The design of the Schörghuber Wet Room Doors has been examined and successfully completed according to the testing procedures which have been described in chapter 2.9.

Function and installation

The Wet Room Door as well as the fittings must have wet room qualities, therefore stainless steel hinges as well as a special lock with corrosion protection should be used. Furthermore a stainless steel wrap-around frame is recommended. Vision panels with plastic material glazing beads are of course possible as well.

CE label

With the introduction of product standards for interior doors (EN 14351-2, publication expected at the end of 2011) and exterior doors / windows EN 14351-1 (since 02-2010), doors have to be marked with the conformity label "CE". On the CE conformity certification the producer verifies that the relevant element fulfills the performance characteristics according to the stated classifications at the time of delivery.





Wet Room Doors

Configuration options

NT Solid door

1-leaf door



1-leaf door, with top panel



NT Door with vision panel

1-leaf door



1-leaf door, with top panel







Tender specifications



Information

For additional technical information please see appendix, indicated with



NT-1 FORM-Wet Room Door Model 1.00 / 1.10

BR-width x BR-height Throat opening

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wa
O Solid gypsum wall
O Wooden elements

O Steel elements Note!

The suitability of the wall to be used, has to be checked for its wet room adequacy

Steel frames

Standard rebate, galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special

(optional in black, white oder brown)

Solid wall:

- Gypsum plasterboard wall: - Backbend 15 mm
- Backbend 9 mm - Floor recess 30 mm
 - Without floor recess
- O Design in stainless steel
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening

Aluminium frames

Anodized or coloured, powder coated, 3-sided circumferential special gasket black

- OWrap-around frame
- OBlock frame with quirk
- O Round-shaped frame

The use of stainless steel frames and fittings is recommended for Wet Room Doors

Thickness of door leaf about 42 mm,

- Rebated (F)
- Solid door, climate category II
- Stress group E (4)
- ODoor with vision panel

Edges

● Concealed plastic material edge band, 4-sided

OPU-edge

O.... Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration OStandard

- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door OSpezial vision panel size [®] mm

Glazing beads

- OPlastic material
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf

OHigh pressure laminate (HPL), 0,8 mm OOn site coating HPL A 500

Steel frames

2-part hinges, 2 pieces, 100 mm, on request hinge base 2D adjustable Rebated

- V 8037 WF
- OVN 8939/100

Three-roll-hinges, 2 pieces, 160 mm, on request hinge base 3D adjustable

- OVS 8939/160
- OVSX 7939/160
- Ovx 7939/160
- OHEWI B8107.160 VX
- OAdditional 3rd hinge
- Hinge surface
- Galvanised Matt nickel-plated
- Stainless steel
- Plastic material

 Special lock according to DIN 18251, with panic function E, backset 65 mm, with protection against corrosion, prepared for profile cylinder

Forend surface
- Stainless steel

- OVentilation grille
- OBolt contact
- OKick plate (Aluminium/Stainless steel)

Wet Room Doors

1 N

1-leaf door

Performance overview

NT

Main function



Wet Room qualification



Models



1.00



Performance profile

s (mm)	Basic dimension Basic dimension	BR-width BR-height	500-1314 1750-2250
Dimensions (mm)	Clear passage Clear passage	LD-width LD-height	436-1250 1718-2218
Din	Thickness of door	r leaf	42
on	Solid door		0
Configuration	Door with vision p	anel	0
onfig	Climate category	II	•
ပိ	Stress group E (4))	•

Edge	Rebated	•
	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Solid gypsum wall	0
Frames	Steel frame	•

Information

For additional technical information please see appendix, indicated with







Tender specifications



For additional technical information please see appendix, indicated with



NT-1 FORM-Wet Room Door Model 3.00 / 3.10

Optional function

O Sound-Insulation Rw,P = 32 dB

Dimensions

					Е	3F	₹-	V	/io	ď	th	1	Х			BR-height
(2)																. Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
O Solid gypsum wall
OWooden elements

OSteel elements Note!

The suitability of the wall to be used, has to be checked for its wet room adequacy

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white oder brown)

- Gypsum plasterboard wall:
- Backbend 9 mm Floor recess 30 mm Backbend 15 mmWithout floor recess
- O Design in stainless steel
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame

 Standard installation

 Installation in hallway
- Installation in hallways O Round-shaped frame
- O Face expansion 🕲 / mm
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
 O Frame for installation in existing walls
- Face screw fastening
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
- O Sports hall frame
- O Required face width 🐿 . . . /. . . . mm
 O Reconstruction frame
- O4-sided frame
- OSteel frame with slide anchor fastening (Solid gypsum wall)
- O Sheet thickness 2 mm
- O Backbend up to 25 mm

Aluminium frames

Anodizedor coloured, powder coated, 3-sided circumferential special gasket black

- OWrap-around frame
- OBlock frame with quirk
- O Round-shaped frame

Note!

The use of stainless steel frames and fittings is recommended for Wet Room Doors

Door leaf

Thickness of door leaf about 50 mm,

- Rebated (F)
- Unrebated (S)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with vision panel

Edges

Concealed plastic material edge band, 4-sided

OPU-edge

O....

Vision panel

Type of glass

- ESG 8 mm (clear glass)
- OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration

- OStandard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpezial vision panel size 🕲 mm

Glazing beads

- OPlastic material
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf

OHigh pressure laminate (HPL), 0,8 mm OOn site coating HPL A 500

Steel frames

Three-roll-hinges, 2 pieces, on request hinge base 3D adjustable

Rebated

- VS 8939/160 VN 8938/160 OVSX 7939/160, 3-d. OVX 7939/100, 3-d.
- Ovx 7939/120, 3-d. Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d.
 OAdditional 3rd hinge
- O.

Unrebated

- VS 8949/160 VN 8948/160
- O VSX 7729/160, 3-d. O VX 7729/100, 3-d.
- O VX 7729/120, 3-d. O VX 7729/160, 3-d.
- O VX 7728-160-FORM O BSW 060-22 VX, 3-d.
- O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
- O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge

Hinge surface

Stainless steel Plastic material

 Special lock according to DIN 18251, with panic function E, backset 65 mm, with protection against corrosion, prepared for profile cylinder

Forend surface

Stainless steel

- OVentilation grille
- OBolt contact
- OKick plate (Aluminium/Stainless steel)

Performance overview

NT

Main function



Wet Room qualification

Optional function



O Sound-Insulation Rw,P = 32 dB



Models





Performance profile

s (mm)	Basic dimension Basic dimension	BR-width BR-height	625-1375 1750-2500
Dimensions (mm)	Clear passage Clear passage	LD-width LD-height	561-1311 1718-2468
Din	Thickness of door	leaf	50
on	Solid door		0
urati	Door with vision p	anel	0
Configuration	Climate category	II	•
ပိ	Stress group E (4)	•

	Rebated	0
Edge	Unrebated	О
	Unrebated with jamb rebate	О
	Solid wall	О
Walls	Gasblock concrete wall	0
🕺	Gypsum plasterboard wall	О
	Solid gypsum wall	О
Frames	Steel frame	•
Fra	4-sided frame	0



Wet Room Doors

For additional technical information please see appendix, indicated with i



Tender specifications



For additional technical information please see appendix, indicated with



NT-1 FORM-Wet Room Door Model 3.01 / 3.11 / 3.02 / 3.12

Optional function

O Sound-Insulation Rw,P = 32 dB

Dimensions

🕲 BR-width x BR-height 🖎 Throat opening

O Solid wall OGasblock concrete wall OGypsum plasterboard wall O Solid gypsum wall O Wooden elements O Steel elements (V)

Note!

The suitability of the wall to be used, has to be checked for its wet room adequacy

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white oder brown)

- Gypsum plasterboard wall:
- Backbend 9 mm Floor recess 30 mm
- Backbend 15 mmWithout floor recess
- O Design in stainless steel
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- O Steel block frame

 Standard installation

 Installation in hallway
- Installation in hallways
- O Round-shaped frame
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
- ORequired face width 🕲 . . . /. . . . mm
- O Reconstruction frame
- Q4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

The use of stainless steel frames and fittings is recommended for Wet Room Doors

402

Thickness of door leaf about 50 mm,

- Rebated (F)
- Unrebated (S)
- Unrebated with jamb rebate (S)
- Solid door, climate category II
- Stress group E (4)
- ODoor with vision panel

Edges OConcealed plastic material edge band, 4-sided OPU-edge

O....

Type of glass

- Vision panel ● ESG 8 mm (clear glass)
- OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration

- OStandard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpezial vision panel size 🕲 mm

Glazing beads

- OPlastic material
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter-rebated
- with transom
- OFanlight with transom and security glass

Surfaces

Door leaf / Top panel

- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating HPL A 500

Hinges

Steel frames

Three-roll-hinges, 2 pieces, on request hinge base 3D adjustable

Rebated

- VS 8939/160 OVN 8938/160
- OVSX 7939/160, 3-d. Ovx 7939/100, 3-d. Ovx 7939/120, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Hinge surface Plastic material

Unrebated VS 8949/160

- O VN 8948/160
- O VSX 7729/160, 3-d. O VX 7729/100, 3-d.
- O VX 7729/120, 3-d.
- O VX 7728-160-FORM O BSW 060-22 VX, 3-d.
- OVIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
 O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge
- ○◎.....

● Special lock according to DIN 18251, with panic function E, backset 65 mm, with protection against corrosion, prepared for profile cylinder

Forend surface

Stainless steel

- OVentilation grille
- OBolt contact
- OKick plate (Aluminium/Stainless steel)

Wet Room Doors

1-leaf door, with top panel

Performance overview

NT

Main function



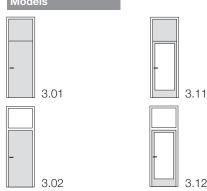
Wet Room qualification

Optional function



O Sound-Insulation Rw,P = 32 dB





Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1375 2000-3500
Dimensions (mm)	Clear passage LD-width Clear passage LD-height Clear passage (door) height	561-1311 1968-3468 1718-2468
۵	Thickness of door leaf	50
no	Solid door	0
urati	Door with vision panel	0
Configuration	Climate category II	0
ပိ	Stress group E (4)	•

	Rebated	О
Edge	Unrebated	0
3	Unrebated with jamb rebate	0
	Solid wall	0
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Solid gypsum wall	0
Frames	Steel frame	•
Fra	4-sided frame	0

Information

For additional technical information please see appendix, indicated with i









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Function	Configuration	Туре	Page
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		3 N ST	424
		16 N ST Super size	426
		3 N	428
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VT		25 N	432
		4 N	434
		4 N PT	436
	O last dans	26 N	438
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	2 1001 0001, With top purior	27 N	450
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Heavy-duty Solid Core Doors

Raumgestaltende Elemente

Regulations and requirements

Doors for internal areas

In Germany the minimum requirements for rebated and unrebated doors (flush doors) for internal areas are regulated by DIN 68706.

Exceptions are functional doors for special requirements e.g. Fire- and Smoke-Protection-Doors. According to DIN 68706 a door for internal areas is a plane door leaf, which consists mostly of wood or wooden materials. The door leaf consists of a plywood frame (a special Schörghuber construction, consisting of multiple layers of wood glued together), intermediate layer, cover plate and the top layer.

Configuration and construction (Standard dimensions, vision panel size and position, material quality and range) concerning requirements and functions of interior doors are described in this norm. Door leaf dimensions, hinge and lock positions as well as their dimensional dependence on each other are regulated by DIN 18101 (doors for domestic buildings).

According to their ability to resist diverse climates (differences in temperature and/or humidity on each side of the door), interior doors made of wood or wooden materials for different climate stress classes are recommended, which account for their later use. Diverse climate conditions are present when a door is exposed to different climates on each side of the door leaf.

Function

The Schörghuber heavy-duty interior doors with solid core are approved for climate category II (Temperature differences up to 10°C, humidity differences of up to 35%), to assure perfect functionality even under climate stress conditions. Additionally the doors comply with the requirements of stress group E.

At Schörghuber veneered door leaf surfaces are being coated with a transparent lacquer. The herefore used acrylic lacquers result in a very durable surface as required for heavy-duty doors.

CE label

With the introduction of product standards for interior doors (EN 14351-2, publication expected at the end of 2011) and exterior doors / windows EN 14351-1 (since 02-2010), doors have to be marked with the conformity label "CE". On the CE conformity certification the producer verifies that the relevant element fulfills the performance characteristics according to the stated classifications at the time of delivery.





Configuration options

VT Solid door

1-leaf door







1-leaf door, with top panel





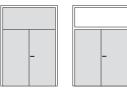
2-leaf door







2-leaf door, with top panel





Swing door

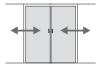
VT Sliding door

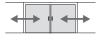
1-leaf solid door

















Configuration options

VT Door with vision panel

1-leaf door





Flap

1-leaf door, with top panel







Super size

2-leaf door





Flap

2-leaf door, with top panel







Swing doo



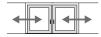
Configuration options

VT Sliding door

1-leaf door with vision panel







2-leaf door with vision panel



MT Solid wood framed door

1-leaf door



1-leaf door, with top panel



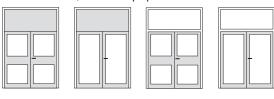
2-leaf door







2-leaf door, with top panel







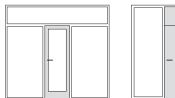
Fixed glazings

Configuration options

VI Fixed side panels

In combination with VT-1 Solid Core Door

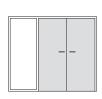


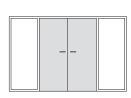




VI Fixed side panels

In combination with VT-2 Solid Core Door









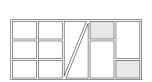




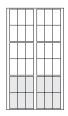
Fixed glazings

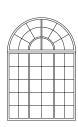
Configuration options

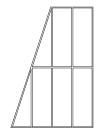
VT Fixed glazings









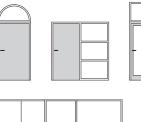


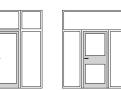




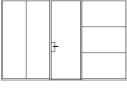
VT Fixed glazings

In combination with VT-1 Solid Core Door





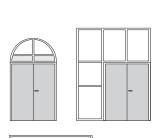


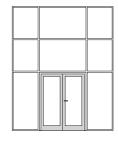




VT Fixed glazings

In combination with VT-2 Solid Core Door















Tender specifications



For additional technical information please see appendix, indicated with



VT-1 FORM-Solid Core Door Model 1.00 / 1.10

Dimensions

(D)									В	3F	-	W	'İC	tt	h		Χ			 		. Е	3F	₹-ŀ	ne	įς	ghi	t		
																						Τ	nr	08	at	0	ре	eni	ng	j
Wa	,	,		i	i	i	i	i	i	i	i	i	i	i	i	i	i	i												
B. A. P.	; I	ı١	31																											

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wa
O Solid gypsum wall
O Wooden elements
OSteel elements

Steel frames

Standard rebate, galvanised and undercoated, sheet thickness 1,5 mm,

3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm

- Backbend 15 mm

- without floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm OSEZ-Wooden frame, architrave 35/35 mm

Door leaf

Thickness of door leaf about 42 mm

- Rebated (F)

Unrebated (S)

Solid door, climate category II

● Stress group E (4)

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OESG 8 mm (patterned glass 200)

OVSG 8 mm (clear glass)

ODSG 7 mm

Configuration

OStandard

OFramed glazing

OAccording to DIN 68706

OVision panel, 215/1015 mm

OPorthole Ø 350, 400, 500 and 650 mm

OSpecial vision panel sizemm OAs multiple glazed door

ODecorative beads on glass

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Door leaf

- Transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

On site coating/undercoating foil

Hinges

Steel frames

2-part hinges, 2 pieces, 100 mm,

hinge base 2D adjustable

Rebated

● V8037 WF OWN8938/100 Unrebated ● V8087 WF ○ VN8948/100

Three-roll-hinges, 2 pieces, 160 mm, on request

hinge base 3D adjustable

Rebated

Unrebated O VN8948/160

OVN8938/160 OVS8939/160 OVSX7939/160, 3-d.

O VS8949/160

O VSX7729/160, 3-d.

Ovx7939/160, 3-d.

O VX7729/160, 3-d.

OBSW060-21 VX, 3-d.

O BSW060-22 VX, 3-d. O HEWI B9107.160 VX. 3-d.

OHEWI B8107,160 VX. 3-d. OAdditional 3rd hinge

O Additional 3rd hinge

Wooden frames

Standard-Wooden frame SEZ-Wooden frame

2-part hinges, 2 pieces, 100 mm, hinge base V 3604

Rebated

Unrebated

Standard-Wooden frame

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

Rebated Ovsx7939/160

OVSX7729/160

Ovx7939/160

O VX7729/160

Ovx7939/120

Ovx7939/100

O VX7729/120 O VX7729/100

OBSW060-21 VX

O BSW060-22 VX O HEWI B9107.160 VX

OHEWI B8107.160 VX

Hinge surface

- Galvanised Plastic material Matt nickel-plated
- Stainless steel

Locks

- Lock according to DIN 18251, class 3 with panic function E, backset 65 mm
- OLock according to DIN 18251, class 4
- OLock with special security equipment

Forend surface

- Galvanised

Special equipment

- OClimate category III
- ODoor viewer
- OSill seal with aluminium threshold
- OBolt contact
- OCable channel
- OConcealed cable transition
- OKick plate (aluminium/stainless steel)
- OMail slot

OTriple bolting

- Stainless steel
- Brass-plated

ORetractable bottom seal

OBlock lock

OMagnetic contact

OSecurity bolts

OVentilation grille



Performance overview



Main function



Solid Core Door (heavy-duty)

Models





Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	500-1314 1750-2250
	Clear opening LD-width Clear opening LD-height	436-1250 1718-2218
Din	Door leaf thickness	42
	Solid door	0
loi	Door with vision panel	0
ırat	Climate category II	•
Configuration	Climate category III	0
	Stress group E (4)	•
	Damp room suitability	0

Edge	Rebated	0
Ed	Unrebated	О
	Solid wall	О
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	О
	Solid gypsum wall	0
Frames	Steel frame	0
Frar	Wooden frame	0



Solid Core Doors

For additional technical information please see appendix, indicated with i







Tender specifications



Information

For additional technical information please see appendix, indicated with



VT-1 FORM-Solid Core Door Model 3.00 / 3.10

Dimensions

🕲 Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
O Solid gypsum wall
OGlazing Type 25 V
OWooden elements
OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm

Backbend 15 mmwithout floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

O Steel block frame

- Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion 🕲 / mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame
O Frame for installation in existing walls Face screw fastening

Adapter fastening

Trapezoid anchor fastening

O Projecting frame

O Sports hall frame

Fineline frame

O Required face width 🗞 . . . /. . . . mm

O Frame for reconstruction

O Fixed side panel

O Design in stainless steel

O4-sided frame

OSteel frame with slide anchor fastening (solid gypsum wall)

O Sheet thickness 2 mm

OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm

Standard installation

Installation in front of wall opening

Projecting installation O Frame for reconstruction

O Fixed side panel

O4-sided frame

Aluminium frames

Anodized or colour powder-coated,

3-sided special gasket black

OWrap-around frame

OBlock frame with quirk

O Round-shaped frame

Door leaf

Thickness of door leaf about 50 mm

Rebated (F)

Unrebated (S)

Unrebated with jamb rebate (S)

Solid door, climate category II

 Stress group E (4)
 ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

with panel

with coffer

with frame-like and/or fielded additional

wood panelling

OArched door

ODoor with vision panel

Edges

• Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge

OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

● ESG 8 mm (clear glass) OESG 8 mm (patterned glass 200)

OVSG 8 mm (clear glass)

ODSG 7 mm

Configuration

OStandard

OFramed glazing
OAccording to DIN 68706

OVision panel, 215/1015 mm OPorthole Ø 350, 400, 500 and 650 mm

OSpecial vision panel size 🕲 mm

OAs multiple glazed door

ODecorative beads on glass

Glazing beads
OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

OVeneer

- Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, on request

hinge base 3D adjustable

Rebated

VS 8939/160 OVN 8938/160

OVSX 7939/160, 3-d. OVX 7939/100, 3-d. OVX 7939/120, 3-d.

OAdditional 3rd hinge

Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.
OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.

Unrebated

VS 8949/160 O VN 8948/160

O VSX 7729/160, 3-d. O VX 7729/100, 3-d. O VX 7729/120, 3-d.

O VX 7729/160, 3-d. O VX 7728-160-FORM

O BSW 060-22 VX, 3-d. O VIELER ER.TB.160.332.S, 3-d.

O Concealed hinges
O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

0 №

Wooden frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX) Rebated Unrebated

● VSX 7939/160 VSX 7729/160 Ovx 7939/100 Ovx 7729/100 Ovx 7939/120 Ovx 7939/160 OBSW 060-21 VX

Ovx 7729/120 Ovx 7729/160 Ovx 7728-160-FORM

OVIELER ER.TB.160.337.F OBSW 060-22 VX OVIELER ER.TB.160.332.S OHEWI B8107.160 VX OAdditional 3rd hinge O Concealed hinges Ō®

O HEWI B9107.160 VX O Additional 3rd hinge

Hinge surface Galvanised Plastic material

- Brass-coloured Matt nickel-plated - Stainless steel - Colour-coated

Locks ● Lock according to DIN 18251, class 3 with panic function E, backset 65 mm prepared for profile cylinder

OLock according to DIN 18251, class 4 OLock with special security equipment

OTriple bolting

Forend surface Galvanised

Stainless steel

- Brass-plated Special equipment

OClimate category III

OElectrical strike

ODoor viewer OBetractable bottom seal

OSill seal with aluminium threshold

OBlock lock

OBolt contact

OMagnetic contact OCable channel

OConcealed cable transition OSecurity bolts

OKick plate (aluminium/stainless steel)

OVentilation grille

OMail slot



3 N

1-leaf door

Performance overview



Main function



Solid Core Door (heavy-duty)



Models



3.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	500-1375 625-2750
Dimensions (mm)	Clear opening LD-width Clear opening LD-height	436-1311 593-2718
۵	Door leaf thickness	50
	Solid door	0
	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
ıfigu	Climate category II	•
Con	Climate category III	0
	Stress group E (4)	•
	Damp room suitability	О

	Rebated	0
Edge	Unrebated	О
	Unrebated with jamb rebate	0
	Solid wall	0
, ,	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
Frames	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	Aluminum frame	0



Solid Core Doors

Information



Tender specifications



Information

For additional technical information please see appendix, indicated with



VT-1 FORM-Solid Core Door Model 16.00 / 16.10

Dimensions

🕲 BR-width x BR-height 🕲 Throat opening

Walls

O Solid wall O Gasblock concrete wall (M) (L) (V) O Gypsum plasterboard wall O Solid gypsum wall OGlazing Type 25 V OWooden elements

O Steel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm

Backbend 15 mmwithout floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

O Steel block frame

- Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion 🕲 / mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame
O Frame for installation in existing walls

Face screw fastening

Adapter fastening

Trapezoid anchor fastening

O Projecting frame

O Sports hall frame

O Fineline frame

O Required face width 🗞 . . . /. . . . mm

O Frame for reconstruction

O Fixed side panel

O Design in stainless steel

O4-sided frame

O Steel frame with slide anchor fastening (solid gypsum wall)

O Sheet thickness 2 mm

OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

○ Wooden block frame, architrave 45/60 mm○ Solid wooden frame, 70/73 mmrespectively 70/95 mm

Standard installation

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel O4-sided frame

Aluminium frames

Anodized or colour powder-coated,

3-sided special gasket black

OWrap-around frame

OBlock frame with quirk

O Round-shaped frame

Door leaf

Thickness of door leaf about 70 mm

- Rebated (F)

Unrebated with jamb rebate (S)

Double-rebated (D)

Solid door, climate category II
Solid door, climate category III
Stress group E (4)

ODoor with holohedral additional wood panelling,

one-/two-sided OStyle door

- with profile beads

with panel

with coffer with frame-like and/or fielded additional

wood panelling OArched door

ODoor with vision panel

• Solid wood batten, white/red wood, 3-sided OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge

OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

ESG 8 mm (clear glass)ESG 8 mm (patterned glass 200)VSG 8 mm (clear glass)

ODSG 7 mm

Configuration

OStandard
OFramed glazing
OAccording to DIN 68706
OVision panel, 215/1015 mm

OPorthole Ø 350, 400, 500 and 650 mm

OSpecial vision panel size 🧠 mm

OAs multiple glazed door

ODecorative beads on glass

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, on request

hinge base 3D adjustable

Rebated/Double-rebated

● VS 8939/160 OVN 8938/160

OVSX 7939/160, 3-d. OVX 7939/160, 3-d. OBSW 060-21 VX, 3-d.

OVELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

O®.....

Unrebated VS 8949/160

O VN 8948/160

O VSX 7729/160, 3-d. O VX 7729/160, 3-d.

O BSW 060-22 VX, 3-d. \mathbf{O} VIELER ER.TB.160.332.S, 3-d.

O Concealed hinges O HEWI B9107.160 VX

O Additional 3rd hinge Wooden frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX)

Rebated/ Double-rebated

● VSX 7939/160

VSX 7729/160

Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F

OBSW 060-22 VX
OVIELER ER.TB.160.332.S

Unrebated

OAdditional 3rd hinge O.

O Concealed hinges O HEWI B9107,160 VX

O Additional 3rd hinge 0

Hinge surface

- Plastic material

Galvanised Matt nickel-plated

- Brass-coloured

- Colour-coated Stainless steel

● Lock according to DIN 18251, class 3 with panic function E, backset 65 mm prepared for profile cylinder

OLock according to DIN 18251, class 4

OLock with special security equipment OTriple bolting

Forend surface

Galvanised

Brass-plated

ODoor viewer

OBetractable bottom seal

OSill seal with aluminium threshold

OBlock lock OBolt contact

OMagnetic contact

OCable channel

OSecurity bolts

OKick plate (aluminium/stainless steel)

OVentilation grille

Stainless steel

Special equipment OElectrical strike

OConcealed cable transition



16 N

1-leaf door

Performance overview

Main function



 Solid Core Door (heavy-duty)



Models



16.00



Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 625-3500
	Clear opening LD-width Clear opening LD-height	561-1436 593-3468
Din	Door leaf thickness	70
	Solid door	0
	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
ıfigu	Climate category II	•
Sor	Climate category III	0
	Stress group E (4)	•
	Damp room suitability	0

4)	Rebated	0
Edge	Unrebated with jamb rebate	0
	Double-rebated	О
	Solid wall	
"	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
Frames	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	Aluminum frame	0



Solid Core Doors

Information

For additional technical information please see appendix, indicated with i







16 N Super size

1-leaf door with optional flap door

Tender specifications



Information

For additional technical information please see appendix, indicated with



VT FORM-Solid Core Door Model 16.00 / 16.10

Dimensions

Walls

O Solid wall O Gasblock concrete wall (M) OGypsum plasterboard wall (L) OGlazing Type 25 V O Wooden elements

OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided double circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

Backbend 9 mm

- Backbend 15 mm - without floor recess

- Floor recess 30 mm OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Sports hall frame

O Steel block frame

Standard installation

Installation in hallways

O Round-shaped frame O Face expansion 🐿 . .

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

- Adapter fastening

- Trapezoid anchor fastening

O Projecting frame

O Required face width 🧠 .../...mm

O Frame for reconstruction

O Design in stainless steel

O4-sided frame

O Sheet thickness 2 mm

OBackbend up to 25 mm

O Lead inlay in frame, max. of 2 mm

Wooden frames

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige) OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/60 mm OSolid wooden frame, 70/73 mm

Standard installationInstallation Installation in hallways

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel

O4-sided frame

Door leaf

Thickness of door leaf about 70 mm,

Rebated (F)

Unrebated with jamb rebate (S)

Solid door, climate category II

OSolid door, climate category III

• Stress group E (4) OStyle door

with panel

with profile beads

with coffer

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

OSports hall door

Edges

Solid wood batten, white/red wood, 3-sided
 OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OVeneer edge

OPlastic material edge

OColour-coated edge

Door leaf flap door

Thickness of door leaf about 70 mm,

Unrebated with jamb rebate (S)

Solid door, climate category II

OSolid door, climate category III

• Stress group E (4)

OStyle door

- with profile beads

- with panel

- with coffer

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

Pyrostop 30-10 (clear glass)
 Pyrostop 30-12 (patterned glass 504)
 Pyrostop / Allstop laminated glass

Configuration

OStandard

OVision panel, 215/1015 mm

OPorthole Ø 350, 400, 500 and 650 mm

OAs multiple glazed door

OSpecial vision panel size 🧠 mm

ODecorative beads on glass

Glazing beads

OSolid wood veneered

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 4 pieces, 160 mm,

hinge base 3D adjustable

Rebated Simons VX 7939/160-4 N Unrebated with jamb rebate

O Simons VX 7929/160-4 N OAdditional 3rd hinge

O Additional 3rd hinge OAdditional 4th hinge O Additional 4th hinge

Wooden frames

○◎..... Three-roll-hinges, 4 pieces, 160 mm,

hinge base 3D adjustable (VHX) Rebated

Unrebated with jamb rebate

Osimons VX 7939/160-4 N OAdditional 3rd hinge OAdditional 4th hinge

 Simons VX 7929/160-4 N O Additional 4th hinge

0..... Hinge selection depends on the elements dimensions

Hinge surface

Galvanised - Plastic material

Matt nickel-plated Stainless steel

- Brass-coloured - Colour-coated

Hinges flap door

- Concealed hingesBrass-plated

Locks flap door

 PZ-lock according to DIN 18250, backset 65 mm

OPanic lock, fixed knob on one side

OPanic lock, lever-lever

OSelf-bolting panic locks

OLock with special security equipment

OTriple bolting

OCode card lock system

Forend surface

Galvanised Brass-plated - Stainless steel

Special equipment

OLead inlay for Radiation-Protection up to 4 mm

OElectrical strike ODoor viewer ORetractable bottom seal (standard with Smoke-

Protection and Sound-Insulation function) OSill seal with aluminium threshold

OBlock lock

OBolt contact OMagnetic contact

OCable channel

OConcealed cable transition

OSecurity holts

OKick plate (aluminium/stainless steel)



16 N Super size

1-leaf door with optional flap door

Performance overview







Solid Core Door (heavy-duty)



Models



16.00



16.10



16.00

16.00

Flap door



16.00

Flap door 16.10

Performance profil

Dimensions (mm)	Basic dimension Basic dimension	BR-width BR-height	1000-2500 2000-3500
	Clear opening Clear opening	LD-width LD-height	936-2436 1968-3468
Dimens	Flap door LD-width LD-height		561-1061 1718-2218
	Door leaf thickness		70
	Solid door		0
ے	Door with vision panel		О
Configuration	Style door (coffer, panel, profile beads)		0
onfie	Climate class II		•
Ŏ	Climate class III		0
	Stress group E (4)		•

Edge	Rebated	0
	Unrebated with jamb rebate	0
	Flap door, unrebated with jamb rebate	0
	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
Frames	Sports hall frame	0
	Wooden wrap-around frame	0
ᄩ	Wooden block frame	0
	Solid wooden frame	0



Solid Core Doors

For additional technical information please see appendix, indicated with i







Tender specifications

Information

For additional technical information please see appendix, indicated with



MT-1 FORM-Solid wood framed door Model 25.10

Dimensions

🕲 Throat opening

Walls O Solid wall (M) O Gasblock concrete wall OGypsum plasterboard wall (L) OGlazing Type 25 V O Wooden elements OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Gypsum plasterboard wall:

Backbend 9 mm - Floor recess 30 mm

- Backbend 15 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- O Face expansion 🕲 / mm
- O Decorative rebated frame, rebate depth mm
- O Expansion joint frame
- O Frame for installation in existing walls

 Adapter fastening

 Trapezoid anchor fastening

- OProjecting frame
- O Sports hall frame
- O Fineline frame
- O Required face width 🐿 .../... mm
- O Frame for reconstruction O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

O Wooden wrap-around frame, architrave 60/60 mm

- OWooden block frame, architrave 45/60 mm OSolid wooden frame, 70/73 mm
- respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
 Projecting installation
 OFrame for reconstruction

- O Fixed side panel
- O4-sided frame

Aluminium frames

Anodized or colour powder-coated, 3-sided special gasket black

- OWrap-around frame
- OBlock frame with quirk O Round-shaped frame

Door leaf

Frame thickness 73/95 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Safety glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II
- OSolid wood framed door with round arch

Vision panel

Type of glass

- OESG 8 mm (clear glass)
- OVSG 8 mm (clear glass) ODSG 7 mm

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm, door rebate dimension over 1100 mm with
- bottom frieze 195 mm Owithout middle frieze, minimum frame widths side/top/bottom ≥ 105 mm,
 - door rebate dimension over 1100 mm with
 - bottom frieze 195 mm, on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm
- ©...../..../
 ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- On site coating/undercoating foil
- OColour-coated
- O.....

Hinges

Steel frames Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d.

- OHEWI B8107.160 VX. 3-d. OAdditional 3rd hinge. O.

Unrebated

- VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
- \odot VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated ● VSX 7939/160 ○ VX 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107,160 VX
- Unrebated ● VSX 7729/160
- O VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S
- O Concealed hinges O HEWI B9107.160 VX O Additional 3rd hinge

OAdditional 3rd hinge

- Hinge surface Galvanised Matt nickel-plated
- Plastic material - Brass-coloured
- Stainless steel Colour-coated

Locks

- Lock according to DIN 18251, class 4
- OLock for narrow style doors
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks OLock with special security equipment
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- ORetractable bottom seal
- OElectrical strike
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



25 N

1-leaf door

Performance overview

MT

Main function



Solid wood framed door



Models



25.10



Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 625-3750
	Clear opening LD-width Clear opening LD-height	561-1436 593-3718
	Door leaf thickness	73/95
ion	Solid wood framed door	•
Configuration	Solid wood framed style door (coffer, panel, panel version II)	0
Cor	Climate category II	•
ge	Rebated	0
Edge	Unrebated with jamb rebate	0

Walls	Solid wall	0
	Gasblock concrete wall	0
	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
စ္ဆ	Wooden wrap-around frame	О
Frames	Wooden block frame	0
Fr	Solid wooden frame	0
	Aluminum frame	0



Solid Core Doors

Information

For additional technical information please see appendix, indicated with i







25 N Slimline

1-leaf door

Tender specifications

For additional technical information please see appendix, indicated with



MT-1 FORM-Solid wood framed door Model 25.10 Slimline

Dimensions

(2)	 BR-width x	BR-height
1	 	Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wal
O Glazing Type 25 V
O Wooden elements

OSteel elements Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Solid wooden frame, 70/73 mm respectively 70/95 mm
- Installation in hallways Installation in front of wall opening
- Projecting installation

Standard installation

- O4-sided frame

Frame thickness 50 mm

- Unrebated (S)
- Solid wood framed door, climate category II
 OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

- ESG 8 mm (clear glass) ESG 10 mm (clear glass)
- OVSG 10 mm (clear glass)

- Configuration

 OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 30/30/0 mm
- side/top/bottom ≥ 30/30/0 mm, on request with cross bar $\geq 55 < 150$ mm, on request with intermediate frieze $\geq 150 < 280$ mm
- S..../..../ for bottom frieze widths = 0 mm, stainless steel guard rail required
- ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated

Wooden frames
Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VX 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface

- Galvanised Matt nickel-plated - Brass-coloured
 - Plastic material
- Stainless steel
- Colour-coated

- Lock according to DIN 18251, class 4
- OLock for narrow style doors
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks
- OLock with special security equipment
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

- ORetractable bottom seal OElectrical strike
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts



25 N Slimline

1-leaf door

Performance overview

MT

Main function



Solid wood framed door



Models

Solid Core Doors



25.10 SL



25.10 SL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	750-1375 1750-2625
Configuration Dimensions (mm)	Clear opening LD-width Clear opening LD-height	648-1250 1699-2449
۵i	Door leaf thickness	50
tion	Solid wood framed door	0
ıfigura	Solid wood framed style door (coffer, panel, panel version II)	O
Cor	Climate category II	•
Edge	Unrebated	•

slls	Solid wall	0
	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	O
rames	Solid wooden frame	0
Frar	4-sided frame	0



For additional technical information please see appendix, indicated with i







1-leaf sliding door

Tender specifications



For additional technical information please see appendix, indicated with



VT-1 FORM-Sliding door/-window Model 3.00 ST / 3.10 ST

Dimensions

🕲 BR-width x BR-height 🕲 Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wa
O Solid gypsum wall
OGlazing Type 25 V

Steel frames

- OSteel wrap-around frame
- OFrame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening
- OSteel block frame with concealed slide rail

Wooden frames

- O Wooden wrap-around frame
- OWooden corner frame
- O Wooden block frame with concealed slide rail

Door leaf

Thickness of door leaf about 50 mm

- Unrebated (S)
- Solid door, climate category II
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-, 3-, 4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass) OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration

- **O**Standard
- OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm OSpecial vision panel size 🗞 mm OAs multiple glazed door
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Slide rail

OAluminium slide rail with plastic material rolls

- without lock
- OCircular lock

Handles

OFlush pulls on both sides O[©].....

- OManual opening, closing by weight with shock absorbing action
- OMagnetic locking device in
- combination with smoke detector OAutomatic door operator, on request control with light barrier, key-operated push button, code card reader, etc.

- ODoor viewer
- OKick plate (aluminium/stainless steel)
- OVentilation grille

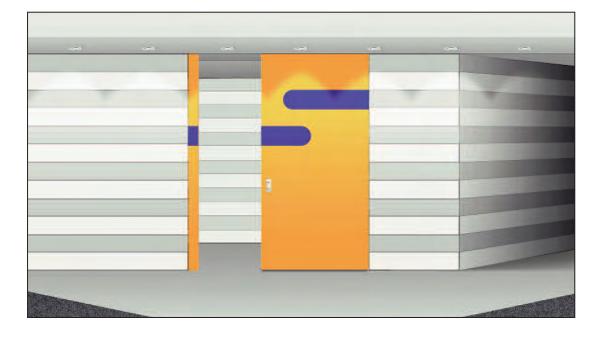


3 N ST

1-leaf sliding door

Performance overview

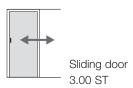


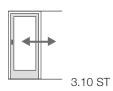


Main function



Solid Core Door (heavy-duty)









Sliding flap 3.00 ST

window 3.10 ST

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 625-3000
Dimensions (mm)	Clear opening LD-width Clear opening LD-height	561-1370 591-2968
٦	Door leaf thickness	50
ion	Solid door	0
Configuration	Door with vision panel	0
ıfigu	Climate category II	•
Cor	Climate category III	О

Edge	Unrebated	•
(0	Solid wall	О
Walls	Gypsum plasterboard wall	0
>	Glazing Type 25 V	О
Frames	Steel frame	0
	Wooden wrap-around frame	О
	Wooden block frame	0
	Wooden corner frame	0



Solid Core Doors

Information

For additional technical information please see appendix, indicated with i



Standard O On request



16 N ST Super size

1-leaf sliding door with optional flap door

Tender specifications



Information

For additional technical information please see appendix, indicated with



VT FORM-Sliding door Model 16.00 ST / 16.10 ST

Dimensions

BR-width x BR-height Throat opening

- O Solid wall O Gypsum plasterboard wall
- OGlazing Type 25 V
- O Wooden elements

OSteel elements Steel frames

- OSteel wrap-around frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening

Wooden frames

- OWooden wrap-around frame
- O Wooden corner frame

Thickness of door leaf about 70 mm

- Unrebated (S)
- Solid door, climate category II
- OSolid door, climate category III
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-, 3-, 4-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Door leaf flap door

Thickness of door leaf about 70 mm

- Unrebated (S)
- Solid door, climate category II
- OSolid door, climate category III
 ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-, 3-, 4-sided
- OVeneer edge OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- **O**Standard
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OSpecial vision panel size 🕲 mm

Glazing beads

- OSolid wood veneered
- OSolid wood

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

OAluminium slide rail with plastic material rolls

Locks sliding door

- without lock
- OCircular lock

Locks flap door

- PZ-lock according to DIN 18250, backset 65 mm
- OPanic lock, fixed knob on one side OPanic lock, lever-lever
- OSelf-bolting panic locks OLock with special security equipment
- OTriple bolting
- OCode card lock system
- Forend surface
- Galvanised Stainless steel
- Brass-plated

Hinges flap door

Concealed hinges

- OManual opening, closing by weight with shock absorbing action
- OMagnetic locking device in combination with smoke detector

- ODoor viewer
- OKick plate (aluminium/stainless steel)

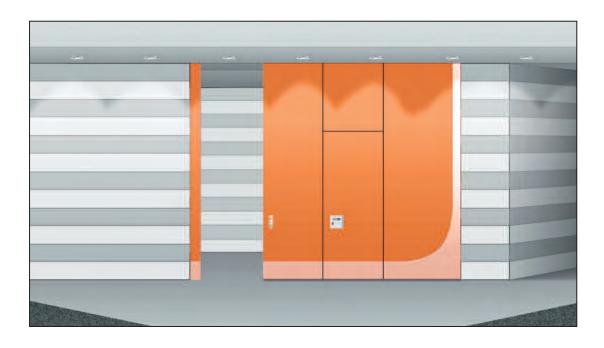


16 N ST Super size

1-leaf sliding door with optional flap door

Performance overview





Main function



Solid Core Doors

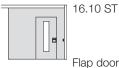
Solid Core Door (heavy-duty)





16.10 ST

16.00 ST Flap door 16.00



Flap door 16.10

Performance profil

	Dania dimanaian	DD width	1000 0000
<u>E</u>	Basic dimension Basic dimension	BR-width BR-height	1000-2960 2000-3000
Dimensions (mm)	Clear opening Clear opening	LD-width LD-height	936-2988 1968-2968
Dimen	Flap door	LD-width LD-height	561-1061 1718-2218
	Door leaf thickness		70
	Solid door		0
ioi	Door with vision panel		0
Configuration	Flap door, Solid door		0
)fig	Flap door, door with vision p.		0
ပိ	Climate class II		•
	Climate class III		0

0	Unrebated sliding door	•
Edge	Flap door, unrebated with jamb rebate	•
, o	Solid wall	0
Walls	Gypsum plasterboard wall	0
>	Glazing Type 25 V	0
	Steel frame	0
nes	Wooden wrap-around frame	О
Frames	Wooden block frame	0
-	Wooden corner frame	0





For additional technical information please see appendix, indicated with i







Tender specifications



Wooden frames

Rebated

● VSX 7939/160

Ovx 7939/100

Ovx 7939/120

Ovx 7939/160 OBSW 060-21 VX

OVIELER ER.TB.160.337.F

OHEWI B8107.160 VX

OAdditional 3rd hinge

Ō®

Hinge surface

Galvanised

- Stainless steel

OTriple bolting

Galvanised

- Brass-plated

Forend surface

Stainless steel

Special equipment

OBetractable bottom seal

OConcealed cable transition

OSill seal with aluminium threshold

OKick plate (aluminium/stainless steel)

OClimate category III

OElectrical strike

ODoor viewer

OBlock lock

OBolt contact

OMagnetic contact

OCable channel

OSecurity bolts

OVentilation grille

OMail slot

Locks

Matt nickel-plated

Three-roll-hinges, 2 pieces,

hinge base 3D adjustable (VHX)

Unrebated

VSX 7729/160

Ovx 7729/100

Ovx 7729/120

Ovx 7729/160 Ovx 7728-160-FORM

OVIELER ER.TB.160.332.S

Plastic material

- Brass-coloured

- Colour-coated

● PZ-Lock according to DIN 18251, class 3

with panic function E, backset 65 mm

OLock with special security equipment

prepared for profile cylinder OLock according to DIN 18251, class 4

OBSW 060-22 VX

O Concealed hinges

O HEWI B9107.160 VX

O Additional 3rd hinge

For additional technical information please see appendix, indicated with



VT-1 FORM-Solid Core Door Model 3.01 / 3.11 / 3.02 / 3.12

Dimensions

ᅠ	BR-width x	BR-height
◎		Throat opening

Welle

Walls
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
O Solid gypsum wall
OGlazing Type 25 V
OWooden elements
OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey

(optional in black, white or brown) Solid wall: Gypsum plasterboard wall:

Backbend 15 mm

- Backbend 9 mm

- Floor recess 30 mm - without floor recess OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall O Corner frame, sheet thickness 2 mm, 32/15 mm O Steel block frame

Standard installation Installation in hallways

O Round-shaped frame

OFace expansion 🧠 . . O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening (top panel)

O Projecting frame

O Fineline frame

ORequired face width 🧠 . . . /. . . . mm O Frame for reconstruction

O Fixed side panel

O Design in stainless steel

O4-sided frame

O Sheet thickness 2 mm

O Backbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

O Solid wooden frame, 70/73 mm

Standard installation

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel

O4-sided frame

Door leaf

Thickness of door leaf about 50 mm

Rebated (F)

Unrebated (S)

Unrebated with jamb rebate (S)

Solid door, climate category II

Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

with profile beads

with panel

with coffer

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OPU-edge

OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OESG 8 mm (patterned glass 200)

OVSG 8 mm (clear glass)

ODSG 7 mm

Configuration

OStandard

OFramed glazing
OAccording to DIN 68706
OVision panel, 215/1015 mm
OPorthole Ø 350, 400, 500 and 650 mm

OSpecial vision panel size 🕲 mm

OAs multiple glazed door

ODecorative beads on glass

Glazing beads

OSolid wood veneered OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

Top panel

OTop panel

- Counter rebated

with transom

OFanlight with transom and security glass

Door leaf / Top panel / Wooden frame

OVeneer

- Transparently coated

Stained/transparently coated

Untreated

OHigh pressure laminate (HPL), 0,8 mm

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, on request hinge base 3D adjustable

Rebated

● VS 8939/160 OVN 8938/160

OVSX 7939/160, 3-d. Ovx 7939/100, 3-d.

Ovx 7939/120, 3-d. Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d.

OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107,160 VX, 3-d. OAdditional 3rd hinge

O VN 8948/160 O VSX 7729/160, 3-d. O VX 7729/100, 3-d.

Unrebated

● VS 8949/160

O VX 7729/120, 3-d. O VX 7729/160, 3-d.

O VX 7728-160-FORM O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S. 3-d. O Concealed hinges

O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

Standard





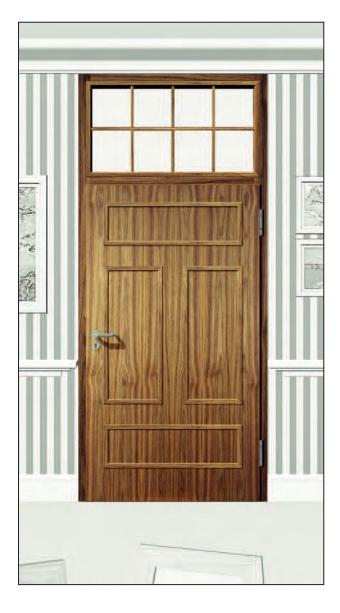
Performance overview



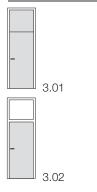
Main function

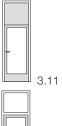


Solid Core Door (heavy-duty)



Models







Performance profile

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	625-1375 2000-3500
	Clear opening LD-width Clear opening LD-height Clear opening (door) height	561-1311 1968-3468 1718-2718
Ē	Door leaf thickness	50
	Solid door	0
	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	О
-lig	Climate category II	•
Con	Climate category III	0
	Stress group E (4)	•
	Damp room suitability	О

	Rebated	0
ge	Unrebated	0
Edge	Unrebated with jamb rebate	0
	Solid wall	0
, n	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
န္တ	Wooden wrap-around frame	О
Frames	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Solid Core Doors

For additional technical information please see appendix, indicated with i







Tender specifications



Information

For additional technical information please see appendix, indicated with



VT-1 FORM-Solid Core Door Model 16.01 / 16.11 / 16.02 / 16.12

Dimensions

1				В	R-	W	۷İ٥	dt	h	X					. BR-height
															Throat opening

Walls

O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wa
O Solid gypsum wall
O Glazing Type 25 V
O Wooden elements
OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🧠 . . O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening (top panel) O Projecting frame
- O Required face width 🐿 . . . /. . . . mm
- O Frame for reconstruction O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm
- respectively 70/95 mm
- Standard installation
- Installation in front of wall opening Projecting installation
- O Frame for reconstruction
- O Fixed side panel
- O4-sided frame

Door leaf

Thickness of door leaf about 70 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II OSolid door, climate category III

 Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass)OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration

- **O**Standard
- OFramed glazing
 OAccording to DIN 68706 OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OSpecial vision panel size 🕲 mm
- OAs multiple glazed door
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Top panel

- OTop panel
- Counter rebated
- with transom
- OFanlight with transom and security glass

Door leaf / Top panel / Wooden frame OVeneer

- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Steel frames Three-roll-hinges, 2 pieces, on request

hinge base 3D adjustable

Rebated/Double-rebated

OVN 8938/160

OVSX 7939/160, 3-d.

Ovx 7939/160, 3-d.

OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F. 3-d.

OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

O VN 8948/160

O VSX 7729/160, 3-d.

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

O VIELER ER.TB.160.332.S. 3-d.

O Concealed hinges. O HEWI B9107,160 VX, 3-d.

O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX)

● VSX 7939/160 Ovx 7939/160

OBSW 060-21 VX OVIELER ER.TB.160.337.F

OAdditional 3rd hinge

O HEWI B9107,160 VX O Additional 3rd hinge

Hinge surface

- Galvanised - Plastic material
- Matt nickel-plated

 - Colour-coated
- Stainless steel

- PZ-Lock according to DIN 18251, class 3 with panic function E, backset 65 mm
- OLock with special security equipment

OTriple bolting

- Forend surface
- Stainless steel
- Brass-plated

- OBetractable bottom seal
- OBolt contact
- OMagnetic contact
- OCable channel
- OMail slot

Rebated/ Unrebated

Double-rebated

VSX 7729/160

O BSW 060-22 VX O VIELER ER.TB.160.332.SSI O Concealed hinges

O №

- Brass-coloured

Locks

prepared for profile cylinder

OLock according to DIN 18251, class 4

Galvanised

- Special equipment
- OElectrical strike
- ODoor viewer
- OSill seal with aluminium threshold OBlock lock
- OConcealed cable transition OSecurity bolts
- OKick plate (aluminium/stainless steel) OVentilation grille



Performance overview







Solid Core Door (heavy-duty)



Rebated

Solid wall

Double-rebated

Unrebated with jamb rebate

Gasblock concrete wall

Solid gypsum wall

Glazing Type 25 V

Wooden block frame

Solid wooden frame

4-sided frame

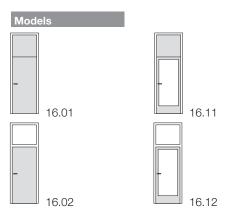
Steel frame

Frames

Gypsum plasterboard wall

Wooden wrap-around frame

Solid Core Doors



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-4000			
Dimensions (mm)	Clear opening LD-width Clear opening LD-height Clear opening (door) height	561-1436 1968-3968 1718-3468			
٦	Door leaf thickness	70			
	Solid door	0			
	Door with vision panel	0			
Configuration	Style door (coffer, panel, profile beads)	О			
ıfigu	Climate category II	•			
Cor	Climate category III	0			
	Stress group E (4)	•			
	Damp room suitability	0			

Super size: On request with a door leaf width of up to 2000 mm!



For additional technical information please see appendix, indicated with i

Standard	On request
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Tender specifications

Information

For additional technical information please see appendix, indicated with



MT-1 FORM-Solid wood framed door Model 25.11 / 25.12

Dimensions

🕲 BR-width x BR-height 🕲 Throat opening

- O Solid wall OGasblock concrete wall (M) OGypsum plasterboard wall (L) OGlazing Type 25 V O Wooden elements
- OSteel elements

Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

- Gypsum plasterboard wall:
- Backbend 9 mm Floor recess 30 mm - Backbend 15 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,
- for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm
- OSteel block frame
 Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🕲 . . .
- O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Adapter fastening
- Trapezoid anchor fastening (top panel)
- O Projecting frame
- O Sports hall frame
- O Fineline frame
- ORequired face width 🗞 .../... mm
- O Frame for reconstruction O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- O Backbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

- O Wooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm
- respectively 70/95 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame
- ○◎.....

Door leaf

Frame thickness 73/95 mm

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Safety glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

- OESG 8 mm (clear glass) OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm
- Owithout middle frieze, minimum frame widths
- side/top/bottom ≥ 105 mm, door rebate dimension over 1100 mm with
- bottom frieze 195 mm, on request with cross bar ≥ 70 < 150 mm, on
- request with intermediate frieze ≥ 150 < 280 mm
- ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

- Top panel OTop panel
- Counter rebated with single rebate
- OFanlight with transom and security glass like vision panel

Door leaf / Top panel / Wooden frame

OVeneer

- Transparently coated
- Stained/transparently coated
- Untreated
- OOn site coating/undercoating foil
- OColour-coated
- O.....

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated ● VSX 7939/160, 3-d.

- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge

Unrebated

- VSX 7729/160, 3-d. O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d. OVIELER ER.TB.160.332.S. 3-d.
- O Concealed hinges O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge O 🕲

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

- Rebated ● VSX 7939/160 Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX
- Unrebated
- VSX 7729/160 O VX 7729/160
- O BSW 060-22 VX OVIELER ER.TB.160.332.S O Concealed hinges
- OAdditional 3rd hinge O HEWI B9107.160 VX. O Additional 3rd hinge

- Hinge surface
 - Plastic material Galvanised
- Matt nickel-plated - Brass-coloured
- Stainless steel - Colour-coated

- Lock according to DIN 18251, class 4
- OLock for narrow style doors
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OSelf-bolting panic locks OLock with special security equipment
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

- ORetractable bottom seal
- OFlectrical strike
- OSill seal with aluminium threshold
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



25 N

1-leaf door, with top panel

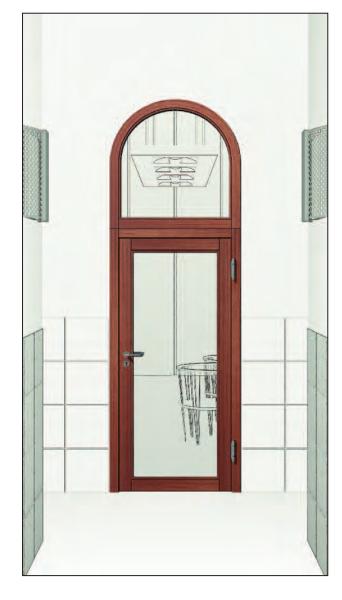
Performance overview

MT

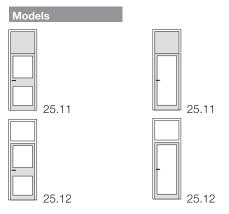
Main function



Solid wood framed door



Solid Core Doors



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	625-1500 2000-5000
Dimensions (mm)	Clear opening LD-width Clear opening LD-height Clear opening (door) height	561-1436 1968-4968 1718-3718
ij	Door leaf thickness	73/95
ion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	0
Cor	Climate category II	•
Edge	Rebated	0
В	Unrebated with jamb rebate	0

	Solid wall	О
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
S	Wooden wrap-around frame	0
Frames	Wooden block frame	0
뇬	Solid wooden frame	О
	4-sided frame	О



Information

For additional technical information please see appendix, indicated with i



Standard On request



2-leaf door

Tender specifications



Information

For additional technical information please see appendix, indicated with



VT-2 FORM-Solid Core Door Model 4.00 / 4.10

Dimensions

🕲 Throat opening

O Solid wall OGasblock concrete wall (M) OGypsum plasterboard wall (L) O Solid gypsum wall (V)OGlazing Type 25 V O Wooden elements OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame,

for gypsum plasterboard wall

- O Corner frame, sheet thickness 2 mm, 32/15 mm O Steel block frame
- Standard installation Installation in hallways
- O Round-shaped frame
- OFace expansion 🕲 /. mm
- O Decorative rebated frame, rebate depth mm O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Face screw fastening
- Adapter fastening
- Trapezoid anchor fastening (top panel)
- O Projecting frame
- O Sports hall frame
- O Fineline frame
- O Required face width 🕲 .../... mm
- O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Wooden wrap-around frame, architrave 60/60 mm
- OWooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm

 Standard installation

 Installation in front of wall openin
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel O4-sided frame
- ○◎

Door leaf

Thickness of door leaf about 50 mm with meeting stiles and rabbet ledge on push side

- Rebated (F)
- Unrebated (S)

- Solid door, climate category II
 Stress group E (4)
 Door with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass) OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration

- **O**Standard
- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm OSpecial vision panel size 🕲 mm
- OAs multiple glazed door
- ODecorative beads on glass

- Glazing beads
 OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Surfaces

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable

Rebated

- VSX 7939/160, 3-d. Ovx 7939/100, 3-d. Ovx 7939/120, 3-d.
- Ovx 7939/160, 3-d. OBSW 060-21 VX, 3-d. OVIELER ER.TB.160.337.F, 3-d.
- OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

Unrebated

- VSX 7729/160, 3-d. O VX 7729/100, 3-d.
- O VX 7729/120, 3-d.
- \bigcirc VX 7729/160, 3-d.
- O BSW 060-22 VX. 3-d.
- O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges
 O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge ○◎

Wooden frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX) Unrebated

- Rebated ● VSX 7939/160 VSX 7729/160 Ovx 7939/100
- Ovx 7729/100 Ovx 7939/120 Ovx 7729/120
- O VX 7729/160 O BSW 060-22 VX Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F O VIELER ER.TB.160.332.SSI O Concealed hinges
 O HEWI B9107.160 VX OHEWI B8107.160 VX
- OAdditional 3rd hinge Ō® Additional 3rd hinge

O ◎

- Hinge surface Galvanised - Plastic material
- Matt nickel-plated - Brass-coloured - Colour-coated

Stainless steel

● PZ-Lock according to DIN 18251, class 3 with panic function E, backset 65 mm prepared for profile cylinder, inactive leaf with

concealed shot-bolt lock OLock according to DIN 18251, class 4

Olnactive leaf with shot-bolt lock OTriple bolting

- Forend surface
- Galvanised Stainless steel
- Brass-plated
- Special equipment OClimate category III
- OElectrical strike
- ODoor viewer
- ORetractable bottom seal
- OBlock lock OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)
- OVentilation grille OMail slot



2-leaf door

Performance overview

Main function



Solid Core Door (heavy-duty)



Models



4.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 625-2750
Dimensions (mm)	Clear opening LD-width Clear opening LD-height	811-2686 593-2718
۵	Door leaf thickness	50
	Solid door	0
	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
figu	Climate category II	•
Con	Climate category III	0
	Stress group E (4)	•
	Damp room suitability	О

Edge	Rebated	0
Ed	Unrebated	0
	Solid wall	0
, n	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	О
>	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
တ္တ	Wooden wrap-around frame	О
Frames	Wooden block frame	0
芷	Solid wooden frame	0
	4-sided frame	0



Solid Core Doors

Information



2-leaf swing door

Tender specifications



For additional technical information please see appendix, indicated with



VT FORM-Swing door Model 4.00-PT / 4.10-PT

Dimensions

a	BR-width x .	BR-height
፟		Throat opening

Walle

vvalis
O Solid wall
O Gasblock concrete wall
O Gypsum plasterboard wall
O Solid gypsum wall
OGlazing Type 25 V
O Wooden elements
O Steel elements

Colour-coordinated, 3-sided double circumferential special gasket (black, grey, white, brown, beige)
O Solid wooden frame, 70/73 mm

- Standard installation
- Installation in hallways
- O Fixed side panel

Door leaf

Thickness of door leaf about 50 mm,

- Unrebated (S)
- Solid door, climate category II
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panel
- with coffer
- with frame-like and/or fielded additional wood panelling
- ODoor with vision panel

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided OVisible solid wood edge band, 2-,3-,4-sided
- OVeneer edge
- OColour-coated edge

Vision panel

Type of glass

- Pyrostop 30-10 (clear glass)
 OPyrostop 30-12 (patterned glass 504)

Configuration

- OStandard

- OFramed glazing
 OAccording to DIN 68706
 OVision panel, 215/1015 mm
 OPorthole Ø 350, 400, 500 and 650 mm
- OAs multiple glazed door
- OSpecial vision panel size 🕲 mm
- OIntermediate frieze ≥ 60 mm
- ODecorative beads on glass

- Glazing beads
 OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil
- OColour-coated

Door leaf hinging

DORMA swing door hardware

Door closer

Floor-mounted door closers according to DIN EN 1154

OGEZE BTS 500

Additional options for door closers

OIntegrated hold-open device

Door closer surface

- Silver-coloured
- Stainless steel
- Colour-coated

Special equipment

- OClimate category III
- OKick plate (aluminium/stainless steel)



4 N-PT

2-leaf swing door

Performance overview







Swing door



Models



4.00-PT



4.10-PT

Performance profil

s (mm)	Basic dimension BR-width Basic dimension BR-height	875-1750 1750-2300
Dimensions (mm)	Clear opening LD-width Clear opening LD-height	740-1615 1715-2235
ا ا	Door leaf thickness	50
	Solid door	0
ion	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
Sol	Climate class II	•
	Climate class III	0

Edge	Unrebated	0
	Solid wall	О
Walls	Gasblock concrete wall	0
×	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
Frames	Solid wooden frame	0



Solid Core Doors

Information

For additional technical information please see appendix, indicated with i







2-leaf door

Tender specifications



Information

For additional technical information please see appendix, indicated with



VT-2 FORM-Solid Core Door Model 26.00 / 26.10

Dimensions

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall OGasblock concrete wall (M) OGypsum plasterboard wall (L) O Solid gypsum wall (V)OGlazing Type 25 V O Wooden elements

OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm Backbend 15 mm
- Floor recess 30 mm - without floor recess
- OSteel wrap-around frame, for solid wall
- OSteel wrap-around frame, for gypsum plasterboard wall
- O Corner frame, sheet thickness 2 mm, 32/15 mm O Steel block frame
- Standard installation
- Installation in hallways
- O Round-shaped frame
- OFace expansion 🐿 /. mm O Decorative rebated frame, rebate depth mm
- O Quirk frame
- O Expansion joint frame
- O Frame for installation in existing walls
- Face screw fastening
- Adapter fastening
- Trapezoid anchor fastening
- O Projecting frame
 O Sports hall frame
- O Fineline frame
- O Required face width 🕲 .../... mm
- O Frame for reconstruction
- O Fixed side panel
- O Design in stainless steel O4-sided frame
- O Sheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

- Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)
- O Wooden wrap-around frame, architrave 60/60 mm
- OWooden block frame, architrave 45/60 mm
- O Solid wooden frame, 70/73 mm respectively 70/95 mm
- Standard installation
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction
- O Fixed side panel O4-sided frame

Door leaf

Thickness of door leaf about 70 mm meeting stiles with single rebate

- Rebated (F)
- Unrebated with jamb rebate (S)
- Double-rebated (D)
- Solid door, climate category II
 Solid door, climate category III
- Stress group E (4)
- ODoor with holohedral additional wood panelling, one-/two-sided
- OStyle door
- with profile beads
- with panelwith coffer
- with frame-like and/or fielded additional wood panelling
- OArched door
- ODoor with vision panel

Edges

- Solid wood batten white/red wood 3-sided
- OConcealed solid wood edge band, 2-sided
- OVisible solid wood edge band, 2-,3-,4-sided
- OVeneer edge
- OPlastic material edge
- OColour-coated edge
- ○◎.....

Vision panel

- Type of glass

 ESG 8 mm (clear glass)
- OESG 8 mm (patterned glass 200)
- OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration OStandard

- OFramed glazing
 OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OSpecial vision panel size 🧠 mm
- OAs multiple glazed door ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- OAluminium untreated/anodized
- OStainless steel (porthole Ø 350 mm)

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable Rebated/Double-rebated

- VSX 7939/160, 3-d.
- Ovx 7939/160, 3-d.
- OBSW 060-21 VX, 3-d.
 OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.
- OAdditional 3rd hinge
- Unrebated
- VSX 7729/160, 3-d.
- O VX 7729/160, 3-d.
- O BSW 060-22 VX, 3-d.
 O VIELER ER.TB.160.332.S, 3-d.
- O Concealed hinges O HEWI B9107.160 VX, 3-d.
- O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX) Rebated/ Unrebated

Double-rebated

- VSX 7939/160
- Ovx 7939/160
- OBSW 060-21 VX OVIELER ER.TB.160.337.F
- OAdditional 3rd hinge O.
- O Concealed hinges
 - 0.....

Hinge surface

- Galvanised - Plastic material
- Matt nickel-plated

Stainless steel

- PZ-Lock according to DIN 18251, class 3 with panic function E, backset 65 mm
- OTriple bolting

Forend surface

- Stainless steel
- Brass-plated
- ODoor viewer
- ORetractable bottom seal
- OBlock lock
- OBolt contact OMagnetic contact
- OCable channel
- OSecurity bolts OKick plate (aluminium/stainless steel)
- OVentilation grille
- OMail slot

- VSX 7729/160
- OBSW 060-22 VX
 OVIELER ER.TB.160.332.S
- O HEWI B9107,160 VX O Additional 3rd hinge

- Brass-coloured - Colour-coated

Locks

- prepared for profile cylinder, inactive leaf with
- concealed shot-bolt lock
 OLock according to DIN 18251, class 4
 Olnactive leaf with shot-bolt lock

Galvanised

- Special equipment
- OElectrical strike

- OConcealed cable transition



26 N

2-leaf door

Performance overview

Main function



Solid Core Door (heavy-duty)



Models

Solid Core Doors

Schörghuber



26.00



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 625-3500
Dimensions (mm)	Clear opening LD-width Clear opening LD-height	936-2936 593-3468
Din	Door leaf thickness	70
	Solid door	0
	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	0
ıfigu	Climate category II	•
Con	Climate category III	0
	Stress group E (4)	•
	Damp room suitability	0

Super size: On request with a door leaf width of up to 2000 mm!

For additional technical information please see appendix, indicated with i



σ.	Rebated	0
Edge	Unrebated with jamb rebate	0
	Double-rebated	0
	Solid wall	0
(n	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	О
	Steel frame	О
Frames	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0

Standard O On request



2-leaf door

Tender specifications

Information

For additional technical information please see appendix, indicated with



MT-2 FORM-Solid wood framed door Model 27.10

Dimensions

©	Throat opening
Walls	

O Solid wall
OGasblock concrete wall
 Gypsum plasterboard wal
OGlazing Type 25 V
O.Wooden elements

OSteel elements

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Floor recess 30 mm

Backbend 15 mmwithout floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame
- Standard installation

Installation in hallways

O Round-shaped frame

O Face expansion 🐿 . .

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

Adapter fastening

Trapezoid anchor fastening

O Projecting frame

O Sports hall frame

O Fineline frame

ORequired face width 🐿 .../... mm

O Frame for reconstruction

O Fixed side panel

O Design in stainless steel

O4-sided frame

OSheet thickness 2 mm

O Backbend up to 25 mm

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm

O Solid wooden frame, 70/73 mm

respectively 70/95 mm

Standard installation

- Installation in hallways

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel O4-sided frame

○◎

Door leaf

Frame thickness 73/95 mm, meeting stiles with single rebate

Rebated (F)

Unrebated with jamb rebate (S)

Solid wood framed door, climate category II

Safety glassSolid wood framed style door

- with panel

with coffer

with panel version II

OSolid wood framed door with round arch

Vision panel

Type of glass

OESG 8 mm (clear glass)

OVSG 8 mm (clear glass) ODSG 7 mm

Configuration

OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm

side/top/bottom ≥ 105 mm, door rebate dimension over 1100 mm with

bottom frieze 195 mm,

on request with cross bar \geq 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm ©...../..../..../ ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side OSolid wood veneered

Door leaf / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

Untreated

OOn site coating/undercoating foil

OColour-coated

O.....

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm,

hinge base 3D adjustable Rebated

● VSX 7939/160, 3-d.

Ovx 7939/160, 3-d.

OBSW 060-21 VX, 3-d.
OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d.

OAdditional 3rd hinge

Unrebated VSX 7729/160, 3-d.

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.
O VIELER ER.TB.160.332.S, 3-d.

O Concealed hinges

O HEWI B9107.160 VX, 3-d. O Additional 3rd hinge

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated ● VSX 7939/160 Ovx 7939/160

Unrebated VSX 7729/160

OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX OAdditional 3rd hinge

O.

O VX 7729/160 O BSW 060-22 VX O VIELER ER.TB.160.332.S O Concealed hinges O HEWI B9107.160 VX

O Additional 3rd hinge

Hinge surface

Stainless steel

Galvanised Matt nickel-plated

- Plastic material - Brass-coloured

Locks

- Lock according to DIN 18251, class 4
- OLock for narrow style doors
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

ORetractable bottom seal

OElectrical strike

OBlock lock OBolt contact

OMagnetic contact

OCable channel

OConcealed cable transition

OSecurity bolts

OKick plate (aluminium/stainless steel)



27 N

2-leaf door

Performance overview

MT

Main function



Solid wood framed door



Models



Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 625-3750
Dimensions (mm)	Clear opening LD-width Clear opening LD-height	936-2936 593-3718
٦	Door leaf thickness	73/95
tion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	О
Cor	Climate category II	•
Edge	Rebated	0
Ed	Unrebated with jamb rebate	0

	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
န္	Wooden wrap-around frame	0
Frames	Wooden block frame	0
뇬	Solid wooden frame	0
	4-sided frame	0



Solid Core Doors

Information

For additional technical information please see appendix, indicated with







27 N Slimline

2-leaf door

Tender specifications



For additional technical information please see appendix, indicated with



MT-2 FORM-Solid wood framed door Model 27.10 Slimline

Dimensions

	BR-wi	dth x .	BR-height
			Throat opening

Trano	
O Solid wall	(N
O Gasblock concrete wall	(N
OGypsum plasterboard wall	(L
OGlazing Type 25 V	(F

O Wooden elements O Steel elements Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in front of wall opening
- Installation in hallways
 Installation in front of v
 Projecting installation O Fixed side panel
- O4-sided frame

Door leaf

Frame thickness 73 mm, meeting stiles with single rebate

- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Fire protection glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

- OESG 8 mm (clear glass)
- OESG 10 mm (clear glass)
- OVSG 10 mm (clear glass)

Configuration

- OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 30/30/0 mm
- OOn middle frieze, side ≥ 75 mm
- Owithout middle frieze, minimum frame widths side/top/bottom ≥30/30/0 mm,
- on request with cross bar \geq 55 < 150 mm, on request with intermediate frieze \geq 150 < 280 mm OOn middle frieze, side \geq 75 mm
- for bottom frieze widths = 0 mm, stainless steel guard rail required
- ODecorative beads on glass

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- Untreated
- On site coating/undercoating foil
- OColour-coated
- O.....

Wooden frames Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX) Unrebated

- VX 7729/160
- OBSW 060-22 VX
- OVIELER ER.TB.160.332.S
- OHEWI B9107.160 VX
- OAdditional 3rd hinge

Hinge surface Galvanised

- Matt nickel-plated Brass-coloured
- Plastic material
- Stainless steel
- Colour-coated

- Lock for narrow style doors
- O Lock according to DIN 18251, class 4
- OPanic lock, fixed knob on one side
- OPanic lock, lever-lever
- OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock
- fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

- ORetractable bottom seal OElectrical strike
- OBlock lock
- OBolt contact
- OMagnetic contact OCable channel
- OConcealed cable transition
- OSecurity bolts
- O‱..



27 N Slimline

2-leaf door

Performance overview

MT

Main function



Solid wood framed door



Models



27.10 SL



27.10 SL

Performance profile

s (mm)	Basic dimension BR-width Basic dimension BR-height	1375-2625 1750-2625
Dimensions (mm)	Clear opening LD-width Clear opening LD-height	1148-2398 1699-2449
	Door leaf thickness	73
tion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	O
Cor	Climate category II	•
Edge	Unrebated	•

	Solid wall	0
<u>s</u>	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	О
-rames	Solid wooden frame	0
Fra	4-sided frame	0



Solid Core Doors

Information

For additional technical information please see appendix, indicated with i



Standard O On request



2-leaf sliding door

Tender specifications



For additional technical information please see appendix, indicated with



VT-2 FORM-Sliding door/-window Model 4.00 ST / 4.10 ST

Dimensions

	BR-width x	BR-height
		Throat opening

O Solid wall	(M
O Gasblock concrete wall	(M
O Gypsum plasterboard wa	II (L
O Solid gypsum wall	(V
O Glazing Type 25 V	(F
O Wooden elements	
OSteel elements	

Steel frames

- O Steel wrap-around frame
- OFrame for installation in existing walls
 - Adapter fastening
 - Trapezoid anchor fastening
- OSteel block frame
- with concealed slide rail

Wooden frames

- OWooden wrap-around frame
- OWooden corner frame O Wooden block frame
- with concealed slide rail

- Thickness of door leaf about 50 mm
- Unrebated (S)
- Solid door, climate category II
- ODoor with vision panel

Edges

- Solid wood batten, white/red wood, 3-sided
- OConcealed solid wood edge band, 2-sided
- OPU-edge
- OVeneer edge
- OPlastic material edge
- OColour-coated edge

Vision panel

Type of glass

- ESG 8 mm (clear glass) OESG 8 mm (patterned glass 200) OVSG 8 mm (clear glass)
- ODSG 7 mm

Configuration

- **O**Standard OFramed glazing
- OAccording to DIN 68706
- OVision panel, 215/1015 mm
- OPorthole Ø 350, 400, 500 and 650 mm
- OSpecial vision panel size 🕲 mm OAs multiple glazed door
- ODecorative beads on glass

Glazing beads

- OSolid wood veneered
- OSolid wood
- O....

Surfaces

Door leaf / Wooden frame

- OVeneer
- Transparently coated
- Stained/transparently coated
- OHigh pressure laminate (HPL), 0,8 mm
- OOn site coating/undercoating foil
- OColour-coated

Slide rail

OAluminium slide rail with plastic material rolls

- without lock
- OCircular lock

Handles

OFlush pulls on both sides О७

- OManual opening, closing by weight with shock absorbing action
- OMagnetic locking device in combination with smoke detector
- OAutomatic door operator, on request control with light barrier, key-operated push button, code card reader, etc.

Special equipment

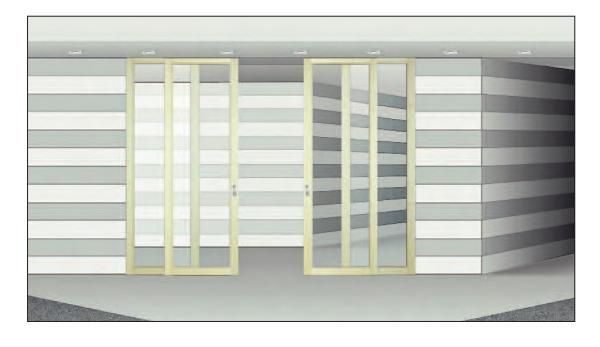
- ODoor viewer
- OKick plate (aluminium/stainless steel)
- OVentilation grille
- OMail slot

4 N ST

2-leaf sliding door

Performance overview



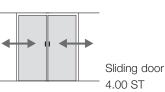


Main function



 Solid Core Door (heavy-duty)

Models













window 4.10 ST

4.10 ST

Performance profile

s (mm)	Basic dimension Basic dimension	BR-width BR-height	1000-2852 1000-3000
Dimensions	Clear opening Clear opening	LD-width LD-height	936-2788 968-2968
Dir	Door leaf thickness	SS	50
ion	Solid door		0
urat	Door with vision p	oanel	0
Configuration	Climate category	II	•
Cor	Climate category	III	0

Edge	Unrebated	•
w	Solid wall	0
Walls	Gypsum plasterboard wall	0
۸	Glazing Type 25 V	О
	Steel frame	О
nes	Wooden wrap-around frame	0
Frames	Wooden block frame	0
	Wooden corner frame	0



Solid Core Doors

For additional technical information please see appendix, indicated with i





Tender specifications



For additional technical information please see appendix, indicated with



VT-2 FORM-Solid Core Door Model 4.01 / 4.11 / 4.02 / 4.12

Dimensions

	BR-width x	BR-height
		Throat opening

O Solid wall
OGasblock concrete wall
 Gypsum plasterboard wal
O Solid gypsum wall
OGlazing Type 25 V
O.Wooden elements

O Steel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm

- Floor recess 30 mm - without floor recess

OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

Standard installation

Installation in hallways O Round-shaped frame

OFace expansion 🕲 /. mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

Adapter fastening
Trapezoid anchor fastening (top panel)

OProjecting frame

O Fineline frame

ORequired face width 🧠 . . . /. . . . mm

O Frame for reconstruction

O Fixed side panel

O Design in stainless steel

O4-sided frame

OSheet thickness 2 mm

OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

OWooden wrap-around frame, architrave 60/60 mm OWooden block frame, architrave 45/60 mm OSolid wooden frame, 70/73 mm

Standard installation

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel O4-sided frame

Thickness of door leaf about 50 mm with meeting sti-

and rabbet ledge on push side

Rebated (F)

Unrebated (S)

Solid door, climate category II
 Solid door, climate category III

Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

- with profile beads

with panelwith coffer

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

● ESG 8 mm (clear glass)

OESG 8 mm (patterned glass 200)

OVSG 8 mm (clear glass)

ODSG 7 mm

Configuration **O**Standard

OFramed glazing

OAccording to DIN 68706

OVision panel, 215/1015 mm

OPorthole Ø 350, 400, 500 and 650 mm

OSpecial vision panel size 🧠 mm

OAs multiple glazed door ODecorative beads on glass

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

OTop panel

- Counter rebated with rabbet ledge

with transom

OFanlight with transom and security glass

Door leaf / Top panel / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

OHigh pressure laminate (HPL), 0,8 mm

On site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable

Rebated

● VSX 7939/160, 3-d.

Ovx 7939/100, 3-d. Ovx 7939/120, 3-d.

Ovx 7939/160, 3-d.

OBSW 060-21 VX, 3-d. OVIELER ER.TB. 160.337.F. 3-d.

OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge 0 🐿

Unrebated

● VSX 7729/160, 3-d. O VX 7729/100, 3-d.

O VX 7729/120, 3-d.

O VX 7729/160, 3-d. O BSW 060-22 VX, 3-d.

OVIELER ER.TB.160.332.S. 3-d.

O Concealed hinges O HEWI B9107.160 VX, 3-d.

O Additional 3rd hinge 0

Wooden frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX) Rebated

● VSX 7939/160 Ovx 7729/100 Ovx 7939/100 Ovx 7939/120

Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F

O Concealed hinges
O HEWI B9107.160 VX OHEWI B8107.160 VX OAdditional 3rd hinge

Additional 3rd hinge O ◎

Hinge surface

Galvanised

- Plastic material

Matt nickel-plated - Brass-coloured Stainless steel

● PZ-Lock according to DIN 18251, class 3 with panic function E, backset 65 mm prepared for profile cylinder, inactive leaf with

OLock according to DIN 18251, class 4

Olnactive leaf with shot-bolt lock

OTriple bolting Forend surface

Stainless steel - Brass-plated

OClimate category III

OElectrical strike

ODoor viewer

OBolt contact

OMagnetic contact

OSecurity bolts

OKick plate (aluminium/stainless steel) OVentilation grille

OMail slot

Unrebated VSX 7729/160

> Ovx 7729/120 O VX 7729/160 O BSW 060-22 VX

O VIELER ER.TB.160.332.S

- Colour-coated

concealed shot-bolt lock

Galvanised

Special equipment

ORetractable bottom seal OBlock lock

OCable channel OConcealed cable transition



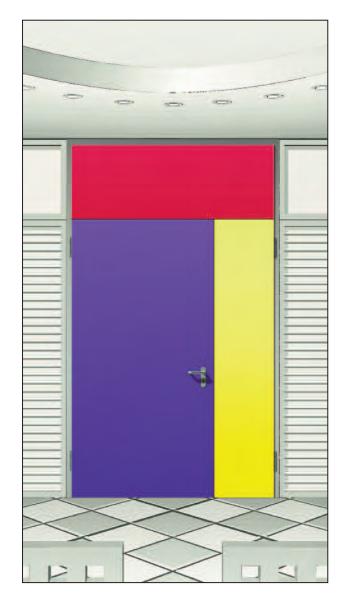
Performance overview



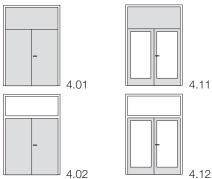




Solid Core Door (heavy-duty)



Models





Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	875-2750 2000-3500
	Clear opening LD-width Clear opening LD-height Clear opening (door) height	811-2686 1968-3468 1718-2718
	Door leaf thickness	50
	Solid door	0
	Door with vision panel	0
Configuration	Style door (coffer, panel, profile beads)	O
ıfigu	Climate category II	•
Con	Climate category III	0
	Stress group E (4)	•
	Damp room suitability	0

Edge	Rebated	0
	Unrebated	0
	Solid wall	0
(0	Gasblock concrete wall	0
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	0
	Glazing Type 25 V	0
	Steel frame	0
Frames	Wooden wrap-around frame	0
	Wooden block frame	0
	Solid wooden frame	0
	4-sided frame	0



Solid Core Doors

Information

For additional technical information please see appendix, indicated with i







Tender specifications



Information

For additional technical information please see appendix, indicated with



VT-2 FORM-Solid Core Door Model 26.01 / 26.11 / 26.02 / 26.12

Dimensions

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall (M) (M) O Gasblock concrete wall O Gypsum plasterboard wall (L) (V) O Solid gypsum wall OGlazing Type 25 V O Wooden elements

O Steel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall:

- Backbend 9 mm - Backbend 15 mm

- Floor recess 30 mm - without floor recess

OSteel wrap-around frame, for solid wall OSteel wrap-around frame,

for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

OSteel block frame

- Standard installation

Installation in hallways

O Round-shaped frame

OFace expansion 🕲 /. mm

O Decorative rebated frame, rebate depth mm

O Quirk frame

O Expansion joint frame

O Frame for installation in existing walls

Adapter fastening
Trapezoid anchor fastening (top panel)

O Projecting frame

O Required face width 🕲 .../... mm

O Frame for reconstruction

O Fixed side panel

O Design in stainless steel

O4-sided frame

O Sheet thickness 2 mm

OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige) OWooden wrap-around frame, architrave 60/60 mm

O Wooden block frame, architrave 45/60 mm O Solid wooden frame, 70/73 mm

respectively 70/95 mm

Standard installation

Installation in front of wall opening

Projecting installation

O Frame for reconstruction

O Fixed side panel O4-sided frame

Thickness of door leaf about 70 mm meeting stiles with single rebate

Rebated (F)

Unrebated with jamb rebate (S)

Double-rebated (D)

Solid door, climate category II
 Solid door, climate category III
 Stress group E (4)

ODoor with holohedral additional wood panelling, one-/two-sided

OStyle door

- with profile beads

with panelwith coffer

with frame-like and/or fielded additional wood panelling

ODoor with vision panel

Edges

Solid wood batten, white/red wood, 3-sided

OConcealed solid wood edge band, 2-sided

OVisible solid wood edge band, 2-,3-,4-sided

OVeneer edge

OPlastic material edge

OColour-coated edge

Vision panel

Type of glass

● ESG 8 mm (clear glass)
OESG 8 mm (patterned glass 200)

OVSG 8 mm (clear glass)

ODSG 7 mm

Configuration

OStandard

OFramed glazing

OAccording to DIN 68706

OVision panel, 215/1015 mm

OPorthole Ø 350, 400, 500 and 650 mm

OSpecial vision panel size 🧠 mm

OAs multiple glazed door ODecorative beads on glass

Glazing beads

OSolid wood veneered

OSolid wood

OAluminium untreated/anodized

OStainless steel (porthole Ø 350 mm)

OTop panel

- Counter rebated with rabbet ledge

with transom

OFanlight with transom and security glass

Door leaf / Top panel / Wooden frame

OVeneer

Transparently coated

Stained/transparently coated

OHigh pressure laminate (HPL), 0,8 mm

On site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable Rebated/Double-rebated

● VSX 7939/160, 3-d.

OVX 7939/160, 3-d.

OAdditional 3rd hinge

OHEWI B8107.160 VX, 3-d.

OBSW 060-21 VX. 3-d. OVIELER ER.TB.160.337.F, 3-d.

Unrebated

● VSX 7729/160, 3-d.

O VX 7729/160, 3-d.

O BSW 060-22 VX. 3-d. O VIELER ER.TB.160.332.S, 3-d.

O Concealed hinges

O HEWI B9107,160 VX, 3-d O Additional 3rd hinge

Ο◎.....

Wooden frames

Three-roll-hinges, 2 pieces, hinge base 3D adjustable (VHX) Rebated/ Unrebated

Double-rebated

● VSX 7939/160 VSX 7729/160 Ovx 7939/160

OBSW 060-21 VX OVIELER ER.TB.160.337.F OAdditional 3rd hinge O.

OBSW 060-22 VX
OVIELER ER.TB.160.332.S O Concealed hinges OHEWI B9107.160 VX

O Additional 3rd hinge 0

Hinge surface

Galvanised - Plastic material

Matt nickel-plated Stainless steel

- Brass-coloured

- Colour-coated

Locks

● PZ-Lock according to DIN 18251, class 3 with panic function E, backset 65 mm prepared for profile cylinder, inactive leaf with

concealed shot-bolt lock
OLock according to DIN 18251, class 4
Olnactive leaf with shot-bolt lock

OTriple bolting

Forend surface

Galvanised Stainless steel Brass-plated

Special equipment

OElectrical strike ODoor viewer

ORetractable bottom seal

OBlock lock OBolt contact

OMagnetic contact

OCable channel OConcealed cable transition

OSecurity bolts OKick plate (aluminium/stainless steel)

OVentilation grille

OMail slot



26 N

2-leaf door, with top panel

Performance overview



Main function



Solid Core Door (heavy-duty)



Models 26.01 26.11

Performance profile

26.02

Dimensions (mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 2000-4000
	Clear opening LD-width Clear opening LD-height Clear opening (door) height	936-2936 1968-3968 1718-3468
Dir	Door leaf thickness	70
	Solid door	0
	Door with vision panel	О
Configuration	Style door (coffer, panel, profile beads)	О
ıfigu	Climate category II	•
Son	Climate category III	0
	Stress group E (4)	•
	Damp room suitability	0

Super size: On request with a door leaf width of up to 2000 mm!



For additional technical information please see appendix, indicated with i



26.12

a)	Rebated	0
Edge	Unrebated with jamb rebate	0
	Double-rebated	О
	Solid wall	О
w	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
>	Solid gypsum wall	О
	Glazing Type 25 V	О
	Steel frame	О
Frames	Wooden wrap-around frame	О
	Wooden block frame	О
	Solid wooden frame	О
	4-sided frame	0



Solid Core Doors

Standard On request



Tender specifications

Information

For additional technical information please see appendix, indicated with



MT-2 FORM-Solid wood framed door Model 27.11 / 27.12

Dimensions

🕲 BR-width x BR-height 🕲 Throat opening

O Solid wall O Gasblock concrete wall (M) O Gypsum plasterboard wall (L) O Glazing Type 25 VRS O Wooden elements

OSteel elements Steel frames

Galvanised and undercoated, sheet thickness 1,5 mm, 3-sided circumferential special gasket grey (optional in black, white or brown)

Solid wall:

Gypsum plasterboard wall: - Backbend 9 mm - Backbend 15 mm - Floor recess 30 mm - without floor recess OSteel wrap-around frame, for solid wall

OSteel wrap-around frame, for gypsum plasterboard wall

O Corner frame, sheet thickness 2 mm, 32/15 mm

- OSteel block frame
- Standard installation Installation in hallways
- O Round-shaped frame

O Face expansion < □ mm O Decorative rebated frame, rebate depth mm

- O Quirk frame
- O Expansion joint frame

O Frame for installation in existing walls

- Adapter fastening
- Trapezoid anchor fastening
- OProjecting frame
- O Sports hall frame O Fineline frame
- ORequired face width 🧠 . . . /. . . . mm
- OFrame for reconstruction
- O Fixed side panel
- O Design in stainless steel
- O4-sided frame
- OSheet thickness 2 mm
- OBackbend up to 25 mm

Wooden frames

Colour-coordinated, 3-sided circumferential special gasket (black, grey, white, brown, beige)

- OWooden wock frame, architrave 45/60 mm
 OSkild wooden frame, 20/73 mm
- O Solid wooden frame, 70/73 mm
- Standard installation
- Installation in hallways
- Installation in front of wall opening
- Projecting installation
- O Frame for reconstruction O Fixed side panel
- O4-sided frame

Door leaf

Frame thickness 73/95 mm, meeting stiles with single rebate

- Rebated (F)
- Unrebated with jamb rebate (S)
- Solid wood framed door, climate category II
- Safety glass
- OSolid wood framed style door
- with panel
- with coffer
- with panel version II

Vision panel

Type of glass

OESG 8 mm (clear glass)

OVSG 8 mm (clear glass) ODSG 7 mm

Configuration OWith middle frieze ≥ 280 mm, minimum frame widths side/top/bottom ≥ 75/75/105 mm, door rebate dimension over 1100 mm with bottom frieze 195 mm

③...../..../..../...../ Owithout middle frieze, minimum frame widths side/top/bottom ≥ 105 mm,

door rebate dimension over 1100 mm with bottom frieze 195 mm,

on request with cross bar ≥ 70 < 150 mm, on request with intermediate frieze ≥ 150 < 280 mm

Glazing beads

Glass rebate with glazing bead on one side

OSolid wood veneered

Top panel

- OTop panel
- Counter rebated with single rebate
- with transom
- OFanlight with transom and security glass like vision panel

Door leaf / Top panel / Wooden frame

- Transparently coated
- Stained/transparently coated

OOn site coating/undercoating foil

OColour-coated

Hinges

Steel frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable

Rebated ● VSX 7939/160, 3-d.

Ovx 7939/160, 3-d. ORSW 060-21 VX 3-d

OVIELER ER.TB.160.337.F, 3-d. OHEWI B8107.160 VX, 3-d. OAdditional 3rd hinge

Unrebated

VSX 7729/160, 3-d. O VX 7729/160, 3-d.

O BSW 060-22 VX 3-d O VIELER ER.TB.160.332.S, 3-d. O Concealed hinges

O HEWI B9107 160 VX 3-d O Additional 3rd hinge 0 №

Wooden frames

Three-roll-hinges, 2 pieces, 160 mm, hinge base 3D adjustable (VHX)

Rebated ● VSX 7939/160 Unrebated

Ovx 7939/160 OBSW 060-21 VX OVIELER ER.TB.160.337.F OHEWI B8107.160 VX

● VSX 7729/160 O VX 7729/160 O BSW 060-22 VX

O Additional 3rd hinge

O VIELER ER.TB.160.332.S O Concealed hinges O HEWI B9107.160 VX OAdditional 3rd hinge

Hinge surface

- Plastic material Galvanised

Matt nickel-plated - Brass-coloured - Colour-coated

Stainless steel

● Lock according to DIN 18250, class 4

OLock for narrow style doors

OPanic lock, fixed knob on one side

OPanic lock, lever-lever

OPanic lock in both leafs, inactive leaf with concealed panic shot-bolt lock

- fixed knob on one side
- Lever-lever
- Inactive leaf with one-sided lever
- OTriple bolting

OCode card lock system

Forend surface

- Galvanised
- Stainless steel
- Brass-plated

Special equipment

- ORetractable bottom seal
- OElectrical strike
- OBlock lock
- OBolt contact
- OMagnetic contact
- OCable channel OConcealed cable transition
- OSecurity bolts
- OKick plate (aluminium/stainless steel)



27 N

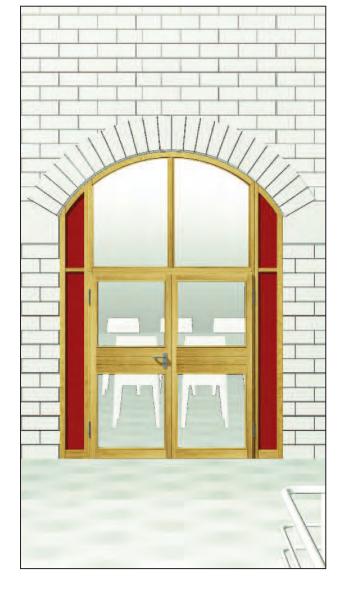
2-leaf door, with top panel

Performance overview

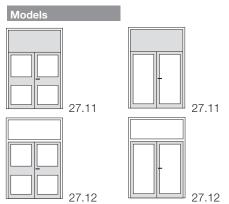
Main function



Solid wood framed door



Solid Core Doors



Performance profile

(mm)	Basic dimension BR-width Basic dimension BR-height	1000-3000 2000-5000
Dimensions (mm)	Clear opening LD-width Clear opening LD-height Clear opening (door) height	936-2936 1968-4968 1718-3718
	Door leaf thickness	73/95
tion	Solid wood framed door	0
Configuration	Solid wood framed style door (coffer, panel, panel version II)	O
Cor	Climate category II	•
Edge	Rebated	0
Ed	Unrebated with jamb rebate	0

SIII	Solid wall	0
	Gasblock concrete wall	О
Walls	Gypsum plasterboard wall	0
	Glazing Type 25 V	0
	Steel frame	0
န္တ	Wooden wrap-around frame	0
Frames	Wooden block frame	0
Ę	Solid wooden frame	0
	4-sided frame	0



Information

For additional technical information please see appendix, indicated with i



Standard On request



Fixed glazings

Tender specifications



For additional technical information please see appendix, indicated with



(M)

FORM-Fixed glazings Type 25 V

Dimensions

S. BR-width x BR-height

Walls

- O Solid wall OGasblock concrete wall
- OGypsum plasterboard wall O Wooden elements
- OSteel elements

Fixed glazings

Profile cross-section

- ≥ 55/73/95 mm
- Glazing bead on one side ○ Infill

- ESG 8 mm (clear glass)
- ESG 8 mm (patterned glass 200)
- VSG 8 mm (clear glass)
- DSG 7 mm
- Glazing with silicone joint ESG ≥ 12 mm VSG ≥ 12 mm
- Panel
- Coffer
- Panel version II

○ Segmentation

- without partitioning
- Horizontal partitioning Vertical partitioning
- Cross partitioning
- ©

Surfaces

- O Veneer
- Transparently coated
- Stained/transparently coated
- Untreated
- O High pressure laminate (HPL), 0,8 mm
- On site coating/undercoating foil Colour-coated

Special equipment

- O Crash-Protection-Glazing (according to TRAV)
 O Corner posts (angle 60-180°)
- O Supporting posts
- O Wall joint posts
- O Wall joint mouldings
- O Patched cross bars
- O Actual cross bars
- O Additional wood panelling

Combination

Solid Core Doors with solid wooden frame in combination with F 30-Glazing Type 25 V O VT-1, Type 3 N

- O VT-1, Type 16 N
- O VT-1, Type 25 N O VT-1, Type 25 N Slimline O VT-1, Type 3 N ST

- O VT-2, Type 4 N O VT-2, Type 4 N-PT O VT-2, Type 26 N
- O VT-2, Type 27 N
- O VT-2, Type 27 N Slimline O VT-2, Type 4 N ST

Segmentation examples

Segmentation 1 (on request with cross bars) with top panel



Segmentation 2 (on request with cross bars) with side panel





Segmentation 3 (on request with cross bars) with continuous

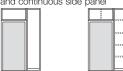
top and side panel





- Segmentation 4 (on request with cross bars) with top panel

and continuous side panel



Segmentation 5 (on request with cross bars) with side panel on

hinge and lock edge





Segmentation 6 (on request with cross bars) with continuous top and side panel on hinge and lock edge





Segmentation 7 (on request with cross bars) with top panel and continuous side panel on

hinge and lock edge





Segmentation 8 (on request with cross bars) Configuration according to draft





25 V

Fixed glazings

Performance overview

Main function



O Fixed glazings

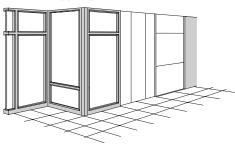
Fixed glazings

Example of use

Fixed glazing for internal areasDepending on the pane size (max. 1400 x 3500 mm) the arrangement of the bars is possible in any layout.

The single panes can be arranged vertically, on request either in portrait format or landscape

Where requiered for static reasons additional bars and support poles must be installed.



Performance profile

(mm) s	Solid wall Basic dimension BR-width Basic dimension BR-height	unlimited max. 5000
Dimensions (mm)	Gypsum plasterboard wall Basic dimension BR-width Basic dimension BR-height	max. 4000 max. 4500
۵	Profile cross-section	≥ 55/73/95
no	Glass	•
Configuration	Panel	0
nfigu	Coffer	0
ပိ	Panel version II	0
_	Solid wall	0
Walls	Gasblock concrete wall	0
_	Gypsum plasterboard wall	0

	VT-1 Type 3 N	0
	VT-1 Type 16 N	О
ᇦ	VT-1 Type 25 N	0
oor som	VT-1 Type 25 N Slimline	
ith do	O	
In combination with door set (Solid wooden block frame)	VT-1 Type 3 N ST	О
binat d woo	VT-2 Type 4 N	O
com (Soli	VT-2 Type 4 N-PT	О
ㅁ	VT-2 Type 26 N	0
	VT-2 Type 27 N	0
	VT-2 Type 27 N Slimline	



Information

For additional technical information please see appendix, indicated with i





Notes



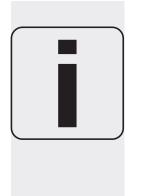






Technical information





Special wooden doors

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DIN norms

Doors and door accessories

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Smoke protection doors	
Fire protection doors - classification	
Window and door product norm	
Testing of fire and smoke protection doors	
Sound insulation measurement	
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Radiation protection doors for medically used rooms	
Interior doors made from wood and wood-based panels	
Wall openings for doors	
Doors for domestic buildings	
Steel frames	
Mortise locks for fire protection closures	
Mortise locks for doors	
Profile cylinder for door locks	
Door handles, door backplate and door rosettes	
Door handles, door knob	
Door handles for FS and RS doors	
Security fittings	
Emergency exit closures	
Panic door closures	
Door closers with hydraulic absorbability	_ DIN 18263
Door closers with controllable closing function	_ DIN EN 1154
Door hinges, hinge reference line	_ DIN 18268
Hinges for fire protection doors	_ DIN 18272
Door hinges	_ DIN EN 1935
Climatic effects - requirements and classification	_ DIN EN 12219
Mechanical stress	_ DIN EN 12400
Dynamic deformation	_ DIN EN 130
Static deformation	_ DIN EN 948
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Automatic door systems	_ DIN 18650
Ability to resist wind load	_ DIN EN 12210
Driving rain resistance	_ DIN EN 12208
Shock resistance	_ DIN EN 13049
Thermal insulation	_ DIN EN ISO 10077-1
Overall energy permeability	_ DIN EN 140
Air permeability	_ DIN EN 12207
Operating force windows	
Operating force doors	_ DIN EN 12217



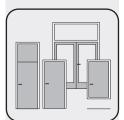


Models

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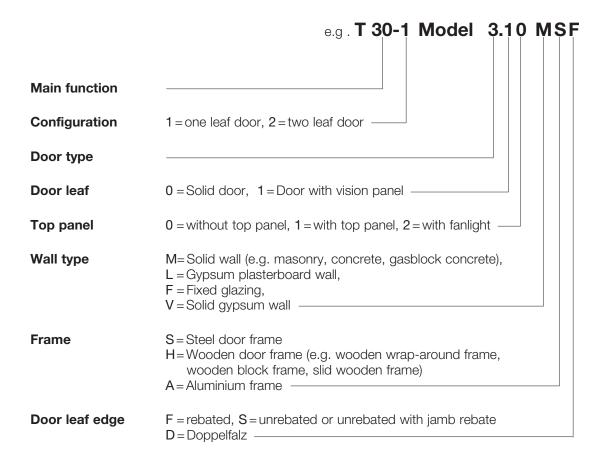


Models

Door type and model

Definition

The **model specifications** of Schörghuber doors result from the accordant **main function**, the **door type**, the **door set configuration** as well as the connecting **wall**, **frame** and the **door leaf edge**. Displayed as follows:

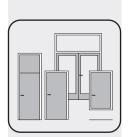


Main functions

T 30	T 30 Fire-Protection	SD 48	Sound-Insulation Rw,P 48 dB
T 60	T 60 Fire-Protection	SD 50	Sound-Insulation Rw,P 50 dB
T 90	T 90 Fire-Protection	WK 2	Burglar-Protection WK 2
T 120	T 120 Fire-Protection	WK 3	Burglar-Protection WK 3
RS	Smoke-Protection	WK 4	Burglar-Protection WK 4
SD 32	Sound-Insulation Rw,P 32 dB	PB	Radiation-Protection
SD 37	Sound-Insulation Rw,P 37 dB	DT	Bullet-Resistant
SD 42	Sound-Insulation Rw,P 42 dB	NT	Wet Room
SD 45	Sound-Insulation Rw,P 45 dB	FT	Damp Room
		LWW	External space
		VT	Solid Core

The main functions are hierarchically ordered. That means, if a door has a sound insulation function as well as a fire protection function it is called Fire-Protection-Door with the the additional respectively multiple function Sound-Insulation.





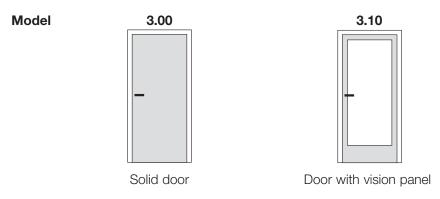
Models 1.1

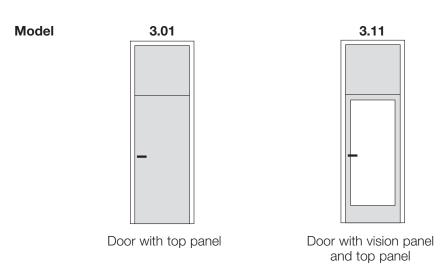
Door type and model

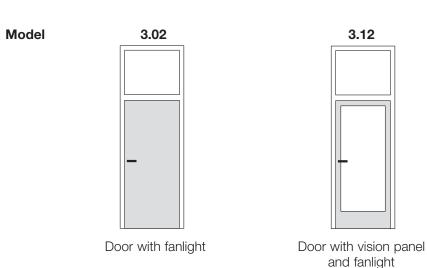
Model identification

Depending on the door function and the combination of configurations, a door type can be equipped with vision panel and top panel or fanlight. As a result of that up to six possible door configurations per model are available.

e.g. Type 3 N

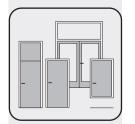












1.2 Models

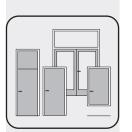
Approval / Certification reports

Overview 1-leaf door sets

1-leaf door	Fire-Protection	Smoke-Protection	Sound-Insulation	Burglar-Protection
Type	DIBt. No.	IBMB BS No.	Sonic laboratory	DIN CERTCO
1 N	Z-6.20-2050	3684/3820-1	98 12 28.4 (SD32) 98 12 28.3 (SD37)	(WK 2)*
3 N 3 N M3	Z-6.20-1934 Z-6.20-1947	3436/3741-1 3899/6751	G 02 05 03.1 (SD37)	4T050 (WK 2) 4T054 (WK 3)
13 N	Z-6.20-1934	3436/3741-1	G 02 05 03.5 (SD 37) G 02 05 03.24 (SD 42)	4T050 (WK 2)
16 N	Z-6.20-1980	3421 / 3353-1	G 02 05 03.7	4T051 (WK 2) 4T053 (WK 3) 4T092 (WK 4)
5 N	Z-6.20-1980	3613/3350-1	G 02 05 03.15 (SD37) G 99 12 03.3 (SD42) G 02 05 03.23 (SD45)	4T051 (WK 2) 4T053 (WK 3)
50-1	Z-6.20-1980	3613/3350-1	G 02 05 03.50 (SD 48) G 02 05 03.51 (SD 50)	4T051 (WK 2) 4T053 (WK 3)
35 N	Z-6.20-2077	3427/3179-1	G 99 12 03.1 (SD37) G 02 05 03.2 (SD42)	4T051 (WK 2) 4T053 (WK 3)
10 N	Z-6.20-2040	3304/8409	41 65 3/6	
25 N	Z-6.20-2007	3433 / 3433-1	G 02 05 03.31 (SD 37) G 02 05 03.32 (SD 42)	(WK 2)*
21 N	Z-6.20-1946		G 02 05 03.19	
8 N	Z-6.20-1933		G 02 05 03.9	4T051 (WK 2) (WK 3) *
80-1	Z-6.20-1933		G 02 05 03.81	4T051 (WK 2) (WK 3) *
91 N	Z-6.15-1736		G 02 05 03.31 (SD 37) G 02 05 03.32 (SD 42)	
17 N		3815/5130-1	G 02 05 03.14	4T051 (WK 2) 4T053 (WK 3)
3-60)*		(SD 32)*	
5-60)*		(SD 37)* (SD 42)*	(WK 2)*
3-90	Z-6.20-1933		(SD 32)*	
25 N Slimline)*)*	(SD 32)* (SD 37)*	
91 N Slimline)*		(SD 32)* (SD 37)*	
3 N-ST)*)*	(SD 32)* (SD 37)*	
120-1)*		G 02 05 03.9	4T051 (WK 2)
3 N-NT	Z-6.20-1934	3436/3741-1	(SD 32)*	
16 N-ST)*)*	(SD 32)*	
25 V-DA)*)*	(SD 32)* (SD 37)* (SD 42)*	(WK 2)* (WK 3)*







Models 1.2

Approval / Certification reports

Overview 2-leaf door sets

	Fire-Protection	Smoke-Protection	Sound-Insulation	Burglar-Protection
2-leaf door				
Туре	DIBt. No.	IBMB BS No.	Sonic laboratory	DIN CERTCO
4 N	Z-6.20-1934	3436/3741-2	G 02 05 03.2	
14 N	Z-6.20-1934	3436/3741-2	G 02 05 03.6	
26 N	Z-6.20-1980	3421/3353-2	G 02 05 03.8	4T052 (WK 2) 4T093 (WK 3)
6 N	Z-6.20-1980	3613/3350-2	G 02 05 03.16 (SD 37) G 02 05 03.4 (SD 42) G 02 05 03.22 (SD 45)	4T052 (WK 2) 4T093 (WK 3)
50-2	Z-6.20-1980	3613/3350-2	G 02 05 03.53 (SD 48) G 02 05 03.52 (SD 50)	4T052 (WK 2) 4T093 (WK 3)
20 N	Z.6.20-2040	3305/8419	41 65 3/18	
27 N	Z.6.20-2007	3433/3433-2	G 02 05 03.18 (SD 32) G 02 05 03.10 (SD 37)	
24 N	Z-6.20-1933		G 02 05 03.18 (SD 32) G 02 05 03.10 (SD 37)	(WK 2)*
80-2	Z-6.20-1933		G 02 05 03.82	(WK 2)*
92 N	Z-6.15-1737		G 02 05 03.33 (SD 48) G 02 05 03.34 (SD 50)	
4-60)*)*	(SD 32)*	
6-60)*)*	(SD 37)* (SD 42)*	(WK 2)*
27 N Slimline)*)*	(SD 32)* (SD 37)*	
92 N Slimline)*)*	(SD 32)* (SD 37)*	
4 N-ST)*)*	(SD 32)*	
4 N-NT	Z-6.20-1934	3436/3741-2	(SD 32)*	
4 N-PT)*			

^{*} in preperation







Models

1.2

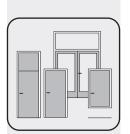
Approval / Certification reports

Overview glazings

	Fire-Protection	Smoke-Protection	Sound-Insulation	Burglar-Protection
				Institute for
Glazing Type	DIBt. No.	IBMB BS No.	Sonic laboratory	door technology and burglar protection
25 V			G 02 05 03.11	5A001 (WK 2) 5A002 (WK 3)
25 V RS			G 02 05 03.11	5A001 (WK 2) 5A002 (WK 3)
25 V F 30	Z-19.14-180		G 02 05 03.11	5A001 (WK 2) 5A002 (WK 3)
25 VS F 30	Z-19.14-180		G 02 05 03.11	
25 V G 30	Z-19.14-1278		G 02 05 03.11	5A001 (WK 2) 5A002 (WK 3)
90 V	Z-19.14-1521		G 02 05 03.30	5A001 (WK 2) 5A002 (WK 3)







Models 1.3

Technical terms

Abbreviations

Dimensions

WÖ = Wall opening dimension BR = Basic dimension

LD = Clear passage dimension

MW = Throat opening

STAM = Overall solid wooden frame dimension

PA = Overall frame depth

B = WidthH = Height

Door leaf

TAB = Door leaf overall width
TAH = Door leaf overall height
ZAM = Overall frame dimension
ZFM = Frame rebate dimension
FAM = Overall base frame dimension
TFM = Door leaf rebate dimension

BS = Pull side BGS = Push side

OFF = Surface of finished floor level

BE = Floor recess SF = Inactive leaf GF = Active leaf

S = Unrebated or unrebated with jamb rebate

F = Rebated
D = Double rebate
FA = Field segmentation
LA = Vision panel

Additional options for door closers

S = Closing time deceleration SV Ε = Electromechanic/hydraulic hold-open function **EMF EMB** R = Electromechanic/hydraulic hold-open function **EMR** with ntegrated smokedetector EFS / RFS = Free-swing rods FL / FLR / FLR-K FLB IS / ISM = Integrated closing function GSR/BSR

Locks

PZ = Profile cylinder BB = Warded lock

SVP = Self-bolting panic lock

FRS = Automatically bolting lock (self-bolting panic lock)

General terms

PU = Polyurethane

PUR = Polyurethane lacquer
HPL = High pressure laminate
MDF = Medium density fibreboard
HDF = High density fibreboard





Multiple functions Contents

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Combination of door functions

Performance overview, 1-leaf door

		Multiple functions																					
1-	leaf door	T 30	T 60	T 90	T 120	RS	Rw,P 32	Rw,P 37	Rw,P 42	Rw,P 45	Rw,P 48	Rw,P 50	WK 2	WK 3	WK 4	PB	DT	LN	LWW	 - 	\ 	≥	BG,E
	T 30																						
	T 60																						
	T 90																						
	T 120																						
	RS																						
	SD 32																						
	SD 37																						
uo	SD 42																						
uncti	SD 45																						
Main function	SD 48																						
Σ	SD 50																						
	WK 2																						
	WK 3																						
	WK 4																						
	PB																						
	DT																						
	NT																						
	VT																						

- 201	Ы	door
= 200	1(1	(1()()r

= Solid door and door with glazing

= Solid door and door with glazing and top panel (counter-rebated)

= Solid door and door with glazing and fanlight

= Solid door and door with glazing and top panel/fanlight

= Solid door with top panel

130 = T 30 Fire-Protection

160 = T 60 Fire-Protection

190 = T 90 Fire-Protection

= Smoke-Protection

\$D 32 = Sound-Insulation Rw,P 32 dB

\$D 37 = Sound-Insulation Rw,P 37 dB

\$D 42 = Sound-Insulation Rw,P 42 dB

\$D 45 = Sound-Insulation Rw,P 45 dB

\$D 48 = Sound-Insulation Rw,P 48 dB

\$D 50 = Sound-Insulation Rw,P 50 dB

WK2 = Burglar-Protection WK 2

WK3 = Burglar-Protection WK 3

WK 4 = Burglar-Protection WK 4 = Radiation-Protection

DT = Bullet-Resistant M 3

= Wet Room

= Solid Core

KL II = Climate category II KL III = Climate category III

KL IV Climate category IV

BG, S = Stress group S

BG, E = Stress group E



2.1



Multiple functions

Combination of door functions

Performance overview, 2-leaf door

		Multiple functions																			
2-lea	af door	T 30	T 60	T 90	RS	Rw,P 32	Rw,P 37	Rw,P 42	Rw,P 45	Rw,P 48	Rw,P 50	WK 2	WK 3	PB	DT	Ν	VT	K =	KL III	KL N	BG,E
	T 30																				
	T 60																				
	T 90																				
	RS																				
	SD 32																				
	SD 37																				
ction	SD 42																				
Main function	SD 45																				
Main	SD 48																				
	SD 50																				
	WK 2																				
	WK3																				
	PB																				
	NT																				
	٧٢																				

= Solid do	or
------------	----

= Solid	door	and	door	with	glazi	ng
---------	------	-----	------	------	-------	----

= Solid door and door with glazing and top panel (counter-rebated)

= Solid door and door with glazing and fanlight

= Solid door and door with glazing and top panel/fanlight

= Solid door with top panel

130 = T 30 Fire-Protection **\$D 48** = Sound-Insulation Rw,P 48 dB **160** = T 60 Fire-Protection **\$D 50** = Sound-Insulation Rw,P 50 dB **190** = T 90 Fire-Protection **WK2** = Burglar-Protection WK 2 = Smoke-Protection **WK3** = Burglar-Protection WK 3

\$D 32 = Sound-Insulation Rw,P 32 dB **SD 37** = Sound-Insulation Rw,P 37 dB **\$D 42** = Sound-Insulation Rw,P 42 dB

SD 45 = Sound-Insulation Rw,P 45 dB

PB = Radiation-Protection **KL II** = Climate category II DT = Bullet-Resistant M 3 KL III = Climate category III NT = Wet Room KL I V = Climate category IV = Solid Core **BG, S** = Stress group S





Combination of door functions

Multiple functions with Sound-Insulation

				M	lultiple fu	nctions w	ith Sound	l-Insulati	on
1	-leaf door	Door type	Door leaf thickness	SD 32	SD 37	SD 42	SD 45	SD 48	SD 50
		1 N	42 mm	•					
		3 N	50 mm	•					
		3 N-NT	50 mm	•					
		13 N	50 mm		•	•			
		16 N	70 mm	•					
	T 30 / RS	5 N	70 mm		•	•	•		
		35 N	70 mm		•	•			
Ē		50-1	91 mm					•	•
ctic		25 N	73 mm	•	•	•			
fun		25 N Slimline	50 mm	•	•				
Main function		10 N	110 mm	•	•	•			
2		3-60	50 mm	•					
	T 60	21 N	70 mm	•					
		5-60	70 mm	•	•	•			
		8 N	70 mm	•	•				
		3-90	50 mm	•					
	T 90	80-1	91 mm			•			
		91 N	110 mm		•	•			
	T 120	120-1	70 mm	•	•				

				M	ultiple fu	nctions w	ith Sound	d-Insulati	on
2	-leaf door	Door type	Door leaf thickness	SD 32	SD 37	SD 42	SD 45	SD 48	SD 50
		4 N	50 mm	•					
		4 N-NT	50 mm	•					
		14 N	50 mm		•				
		26 N	70 mm	•					
	T 30 / RS	6 N	70 mm		•	•	•		
ion		50-2	91 mm					•	•
Main function		27 N	73 mm	•	•	•			
in ft		27 N Slimline	73 mm	•	•				
Ma		20 N	110 mm	•	•	•			
	T 60	4-60	50 mm	•					
	1 00	6-60	70 mm	•	•	•			
		24 N	70 mm	•	•				
	T 90	80-2	91 mm			•			
		92 N	110 mm		•	•			



Schörghuber

T 30 = T 30 Fire-Protection

160 = T 60 Fire-Protection

190 = T 90 Fire-Protection

T120 = T 120 Fire-Protection = Smoke-Protection

\$D 32 = Sound-Insulation Rw,P 32 dB

\$D 37 = Sound-Insulation Rw,P 37 dB

\$D 42 = Sound-Insulation Rw,P 42 dB

\$D 45 = Sound-Insulation Rw,P 45 dB

\$D 48 = Sound-Insulation Rw,P 48 dB

\$D 50 = Sound-Insulation Rw,P 50 dB

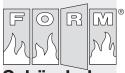


Combination of door functions

Multiple functions with Burglar-Protection

							Mult	iple fu	nctio	ns wi	th Bu	rglar-	Prote	ection			
					<u></u>	WK	2	o)			<u></u>	WK	3	n.		WK 4	o.
1-lea	of door	Door type	Door leaf thickness	Solid door leaf	Vision panel	Fanlight	Top panel	Attack side on push side	Attack side on pull side	Solid door leaf	Vision panel	Fanlight	Top panel	Attack side on push side	Attack side on pull side	Solid door leaf	Attack side on push side
		1 N	42 mm					•									
		3 N	50 mm	•			•	•	•	1)				1)	1)		
		3 N-NT	50 mm														
		13 N	50 mm					•									
		16 N	70 mm				•	•					•	•			•
	/ RS	5 N	70 mm	•				•				•	•	•			
	T 30	35 N	70 mm					•					•	•			
L L		17 N	70 mm	•				•						•			
octic		50-1	91 mm					•		•				•			
Ę		25 N	73 mm					•						•			
Main function		25 N Slimline	73 mm														
2		10 N	110 mm														
	09	3-60	50 mm														
	-	5-60	70 mm	•				•	•								
		8 N	70 mm	•				•	•				•	•			
	06	3-90	50 mm														
	-	80-1	91 mm	•				•	•	•				•			
		91 N	110 mm														
	T 120	120-1	70 mm														

						M	ultiple	functi	ons wi	th Bur	glar-Pı	rotecti	on		
						Wk						WI			
2-lea	af door	Door type	Door leaf thickness	Solid door leaf	Fanlight	Fanlight	Top panel	Attack side on push side	Attack side on pull side	Solid door leaf	Fanlight	Fanlight	Top panel	Attack side on push side	Attack side on pull side
		4 N	50 mm												
		4 N-NT	50 mm												
		14 N	50 mm												
		26 N	70 mm								*				
	/ RS	6 N	70 mm			•	•		•		*				
ion	T 30	50-2	91 mm						•						
Main function	ľ	27 N	73 mm												
i f		27 N Slimline	73 mm												
Ma		20 N	110 mm												
	T 60	4-60	50 mm												
	1 00	6-60	70 mm						•						
		24 N	70 mm				•		•						
	1 90	80-2	91 mm												
		92 N	110 mm												



Schörghuber

T 30 = T 30 Fire-Protection **T 60** = T 60 Fire-Protection

RS = Smoke-Protection WK 2 = Burglar-Protection WK 2 WK 3 = Burglar-Protection WK 3

^{*} in preperation

 $^{^{\}mbox{\tiny 1)}}$ as Bullet-Resistant configuration M 3



CE marking

Regulations and requirements

Basic under construction law

In order to eliminate trade barriers in the European Economic Area and enable free movement of goods, the EU has issued directives and regulations, including for instance the **Construction Products Directive**. This directive is implemented by way of European **standards of construction products**, which specify the majority of required properties and classes of a given construction product as known in Europe, regardless of materials used. Thereby, designers, consumers and manufacturers are able to assess the product and determine classes taking into account local regulations necessary in a given case. Member States are obliged to formulate their own construction law requirements in accordance with properties regulated in standards. In Germany, the Construction Products Directive is implemented by way of the Construction Products Act (BauPG) and construction laws of individual states (LBO).

Certification as part of the construction supervision and marking

Certification as part of the construction supervision means affixing of a CE marking (recognised in the whole Europe) along with classes of given properties stated in the certificate of conformity. By using the CE marking and submitting the certificate of conformity, the manufacturer verifies the product conformity with relevant European standards and directives at the time of delivery.

The CE marking may be placed on the product itself, on a plate put on the product, on the packaging or commercial documents attached to the product or a manufacturer's technical specification published. The certificate of conformity can be provided to the customer e.g. together with shipping documents and attached to the product.

WCE marking requirements

For internal and external doors, the product's conformity with declared properties should be verified by way of:

- Initial Type Testing (ITT) by an accredited testing body in compliance with EN standards given in the product standard and
- Factory Production Control (FPC).

By submitting **declarations of conformity** the manufacturer demonstrates that such standards are complied with.

For smoke control and fire-resistant doors as well as doors used on escape routes, the following are also required:

- The Initial Type Testing and the Factory Production Control, and
- ongoing factory monitoring and the Factory Production Control

to be performed by an external, independent and accredited supervising body. To supplement the **declaration of conformity**, the notified certification body confirms that these requirements are met by issuing a **certificate of conformity**.

A declaration of conformity and a certificate of conformity authorise the manufacturer to affix the CE marking on the product, must be stored by the manufacturer and may be shown upon request.

Windows and external doors

DIN EN 14351-1 is the standard for "Windows and external pedestrian doorsets <u>without</u> resistance to fire and/or smoke leakage characteristics". For these, the CE marking has been obligatory since 1 February 2010. ➡ Chapter 2.12

Internal doors

Publication of standard **DIN EN 14351-2** "Internal pedestrian doorsets <u>without</u> resistance to fire and/or smoke leakage characteristics" is expected at the end of 2011. As of its publication, such products can have CE marking affixed, whereas following the temporary period, probably of two years, such marking will be obligatory.





CE marking

Regulations and requirements

Fire-Protection and Smoke-Protection-Doors

Publication of standard **DIN EN 16034** "Pedestrian doorsets, industrial, commercial and garage doors - Product standard, performance characteristics - Fire resistance and/or smoke control characteristic" is expected at the end of 2011. This standard is also likely to regulate the use of such doors on escape routes according to DIN EN 179 and DIN EN 1125. As of its publication, such products can have CE marking affixed, but following the temporary period, of unknown duration, such marking will be obligatory.

Properties regulated by standards

Product standard **DIN EN 14351-1, DIN EN 14351-2** and **DIN EN 16034** regulate all of the following properties. Not all properties need to be complied with for each joinery product or each use. A given standard specifies though "essential" characteristics the compliance of which means that such product can be recognised as fit for use in a given case. Such properties need to be stated in the certificate of conformity unless a given property is not required by local laws or does not apply to a given product (e.g. "resistance to impact" for solid doors). If no classification is given for required properties (e.g. because no test was conducted), "npd" (no performance determined) should be stated.

Information about other properties can be absolutely necessary under local laws or other European standards, or declaration of such properties can be made voluntarily.

Fire-Protection

The standard concerning fire-resistant doors (DIN EN 16034, publication is likely to occur at the end of 2011) imposes an obligation to perform, by a notified inspection body, fire resistance tests for doors according to DIN EN 14600 or DIN EN 1634-1, while according to DIN EN 1191 – tests for self-closing durability. Fire-resistant doors are classified according to DIN EN 14600 giving the following:

E Room closure

I_{1/2} Thermal insluation (for Fire-Protection-Doors with index 1 or 2 stated)

Self-closing durability (C0 - C5)

Information about the class is given together with the classification period, e.g., El230-C5 \rightarrow Chapter 2.3

Smoke-Protection

Standards concerning smoke control doors (DIN EN 16034 – publication is likely to occur at the end of 2011) imposes an obligation to perform, by a notified inspection body, smoke control tests according to DIN EN 14600 or DIN EN 1634-3, while according to DIN EN 1191 – tests for self-closing durability. Smoke control doors are classified according to DIN EN 14600 giving the following:

S_{a/m} Smoke-Protection (with index a or m stated)

C Self-closing durability (C0 – C5)

→ Chapter 2.4

Repeated opening and closing

The test for repeated opening and closing according to DIN EN 1191 applies to the door leaf, door frame and fittings as a whole. Fire resistant and smoke control doors are classified according to DIN EN 14600: ➤ Chapter 2.3, 2.4

Class	Number of cycles
C0	0
C1	500
C2	10000
C3	50000
C4	100000
C5	200000





The CE label

Regulations and requirements

Windows and doors that do not need to meet Fire-Protection and Smoke-Protection are classified according to DIN EN 12400. According to that standard, for **windows**, depending on the conditions of use, the following classification is recommended: for housebuilding, generally class 2 is recommended, while for non-housebuilding – class 3 is recommended:

Class	Load	Number of cycles
C1	Small	5000
C2	Medium	10000
C3	Strong	20000

According to that standard, for **doors**, depending on the conditions of use, the following classification is recommended: for housebuilding, generally class 5 is recommended, while for non-housebuilding – class 6 is recommended. Classes 7 and 8 are used for frequently opened external doors, e.g. at department stores, petrol stations etc.

Class	Load	Number of cycles
C1	Occasional	5000
C2	Light	10000
C3	Rare	20000
C4	Medium	50000
C5	Normal	100000
C6	Frequent	200000
C7	Strong	500000
C8	Very frequent	1000000

Resistance to wind load

When the test is carried out according to DIN EN 12211, the sample being tested is subject to positive and negative atmospheric pressure. The following are tested: deformations, any damage to the sample tested and air permeability after the test. Depending on the maximum tolerable pressure and deformation of the element, according to DIN EN 12210 this is classified from A1 to C5. \blacktriangleright Chapter 2.12

Driving rain resistance

When the test is carried out according to DIN EN 1027, the sample tested is water sprinkled and it is tested for leaks. According to standard DIN EN 12208, sheltered and unsheltered outdoor areas as well as maximum tolerable pressure are classified within classes 1A − 5A or 1B − 5B, where 1 is the lowest pressure and A − unsheltered outdoor area. ► Chapter 2.12

Dangerous substances

According to standard DIN EN 14351-1, the manufacturer must declare whether, and if so, what dangerous substances originate from the ready product. In this respect one can use e.g. material data sheets specifying the makeup of elements supplied or safety data sheets.

Impact resistance

Impact resistance should be verified for glazed elements which bring about the risk of injury. According to standard DIN EN 13049, classes 1-5 are defined, where class 1 meets the lowest requirements. In case there are no additional safety requirements, at least requirements of class 1 should be met.

Load-bearing capacity of safety devices

This applies only to pivoting windows, in which e.g. opening restrictors prevent the window from self-closing.

Height and width

The door clear opening size should be given. This may be limited by sticking out fittings or rotation angle of a door leaf. ➤ Chapter 3





The CE label

Regulations and requirements

Ability to release

For doorsets with emergency and panic exit devices for use on escape routes according to DIN EN 179 and DIN EN 1125, this should be declared by giving the relevant standard.

Chapter 13

Sound-Insulation

Weighted sound reduction index Rw of the doorset should be given as determined in a test carried out according to DIN EN ISO 140 in a laboratory; also spectrum adaptation values (C; Ctr) according to standard DIN EN 717-1 should be given, e.g. Rw = 32 dB (-1; -2).

Chapter 2.5

Thermal transmittance

Thermal transmittance U should be determined according to DIN EN ISO 10077-1. According to DIN EN ISO 10077-1, U value for windows is marked with "W", and for doors − with "D".

Chapter 2.12

Radiation properties

Total solar energy transmittance - "g" value is determined and stated according to DIN EN 410. It specifies in percent the ratio of the radiated energy to transmitted energy. Light transmittance is determined and stated according to DIN EN 410. ➡ Chapter 2.12

Air permeability

Air permeability is tested according to DIN EN 1026 and classified according to DIN EN 12207. This standard specifies reference air permeability Q100 as air permeability of the doorset for the pressure differential of 100 Pa (reference pressure) for the surface of the doorset or joint length per hour. \blacktriangleright Chapter 2.12

Durability

Durability is considered to be ensured if the manufacturer provides appropriate care and maintenance instructions. Namely, e.g. durability of such properties as watertightness and air permeability depends mainly on the quality and condition of the gaskets, which therefore must be replaceable.

Operating forces

According to DIN EN 12046-1 and -2, tests of forces to open/close, engage/release the hardware of a door/window and to commence the movement of a casement or sash or leaf, in both opening and closing directions can be carried out. Results are stated according to DIN EN 13115 and DIN EN 12217. Especially in the case of construction for the disabled or the elderly, the necessary operating forces need to be accounted for. Draft standard DIN 18040-1 "Construction of accessible buildings" provides for class 3 for doors according to DIN EN 12217

One should remember that to ensure some properties, such as high acoustic performance or low air permeability, several insulation layers and high gasket pressure are needed. Small operating forces can be ensured in such door assemblies to a limited extent only, therefore, one should consider using power-operated doorsets.

Mechanical strength

Performance of doors, doorsets and door assemblies is tested according to their strength in resisting vertical load, static torsion, soft and heavy body impact, and hard body impact. It is classified according to DIN EN 1192 in class 1 - 4. > Chapter 2.13

Ventilation

If air transfer devices operating under pressure are mounted in windows or external doors, ventilation coefficient (K), flow rate (n) and volumetric flow for various pressure differential should be determined and declared according to DIN EN 13141-1.

Bullet resistance

→ Chapter 2.8





The CE label

Regulations and requirements

Explosion resistance

Tests against blast waves should be carried out according to DIN EN 13124-1 and -2. Results are stated according to DIN EN 13123-1 and -2.

Behaviour between different climates

Tests concerning the behaviour under different climates of windows or door leafs can be carried out in five different thermal environments a - e according to DIN EN 1121 the results can be stated in the tolerance classes 1 - 3 according to DIN EN 12219. The test describes the deformation of the door leaf under hygro-thermal influences over a time period of 28 days.

Chapter 2.11

Burglar-Protection

Standard DIN V ENV 1627 specifies requirements and criteria for tests of burglar-resistant construction elements. The classification includes classes WK1 − WK6. Probably in 2011, preliminary standard DIN V ENV 1627 will be replaced by standard DIN EN 1627. As compared to the preliminary standard, requirements will be changed. In order to emphasize this difference, class specification will be changed to RC1 − RC6. ➤ Chapter 2.6

Model conformity certificate for Fire-/Smoke-Protection-Door



Schörghuber Spezialtüren KG Neuhaus 3, 84539 Ampfing Werk 1

12

01234 - CPD - 06789

1234

DIN EN 16034: xxxx

(89/106/EC)

Fire-Protection-Door Type 3N

AB: 12345 Pos. 0010

Fire-Protection: El₂30 Smoke-Protection: S_m Self-closing durability: C5 Manufacturer's address

Year of manufacture

Conformity certificate number

Certification body number

EN standard

Reference to the relevant directive

Product description

Identification

Verified properties

Other properties

Additional information according to DIN EN

14351-2

Hazardous substances: None
Safety devices: npd
Width / height: x / x

Ability to release: DIN EN 179
Sound-Insulation: Rw = 32 (-1/-3)
Operating forces: Klasse 2
Mechanical strength: Klasse 4

Behaviour between

various climates 2(b)
Burglar-Protection WK2





Fire-Protection

CE marking

Fit for Europe!

During the process of harmonization and formation of the single market, basics of construction law (construction standards and rules) are adjusted to new requirements. When the standard for fire-resistant doors is implemented (EN 16034, expected publication at the end of 2011), CE marking recognised in the entire EU can be used to confirm admissibility of use. Following an unknown temporary period, the CE marking will be obligatory. Certificates of conformity, which enable use of appropriate markings, will be issued after fire resistance tests for doors are carried out according to DIN EN 14600 or DIN EN 1634-1, as well as tests for self-closing durability are carried out according to DIN EN 1191 by an accredited testing body.

These new European standards significantly raise requirements of the tests, just to name modified temperature sensors as specified in standard DIN EN 1634-1 and increased pressure conditions in the combustion chamber. This means a significantly higher level of fire control and much higher load of fire protection closure as compared to tests carried out according to DIN 4102-5.

As soon as these standards were published, Schörghuber has manufactured and tested its products according to these criteria, thus it can offer state-of-the-art products already meeting future fire resistance requirements!

Fire protection closures are self-closing doors and flaps, which after mounted are to prevent fire from getting through openings in walls and ceilings.

They are classified according to standard DIN EN 13501-2 stating the following:

E Room closure

 $I_{1/2}$ Thermal insulation (for fire-resistant doors with index 1 or 2 stated)

C Self-closing durability (C0 – C5)

Information about the class is given together with the classification period.

Room closure (E) represents the ability of a fire-resistant element to prevent fire from getting through. This is controlled by observation during the test, putting flammable cotton wads and implementing the feeler gauge if the door leaf is deformed.

Thermal insluation (I_{1/2}) is the ability of a fire-resistant element to reduce the surface temperature on the side away from the fire at specific measurement points, on average up to maximum 140 K or at particular measurement points up to maximum 180 K as compared to the initial temperature. Indexes 1 and 2 specify different location of measurement points.

Self-closing durability (C) is the ability of a fire-resistant element to ensure the self-closing function after the test according to DIN EN 1191 is carried out. Door leaves, door frames and fittings are tested as a whole.

They are classified according to DIN EN 14600:

Class	Number of cycles
C0	0
C1	500
C2	10000
C3	50000
C4	100000
C5	200000





Fire-Protection

CE marking

In Germany, fire protection closures are classified as follows:

Until complete adoption and implementation of new EN standards into the existing local construction laws, everybody involved in the construction process should obtain up-to-date information in this respect.

Schörghuber is a competent partner applying new European standards in the area of fire resistance doors and glazing!

Contact our representatives. We look forward to assisting you and providing necessary information!





Fire-Protection according to DIN 4102

Definition and application areas

Requirements for buildings and structures

According to the construction standard buildings and structures have to be constructed so as to prevent the spread of fire and smoke. Structural elements which have to meet fire protection requirements such as walls, ceilings or fire protection closures can be found in any construction project.

The DIN 4102 is a German building law which regulates preventitive fire protection nationwide. The DIN 4102 defines Fire-Protection-Doors as fire protection closures.

In section 5 and section 13 (glazings) of DIN 4102, terms, requirements and the testing procedure for fire protection closures are described.

Definition of fire protection closures

Fire protection closures are self-closing doors and closures such as flaps and gates which, if correctly installed, are designed to prevent fire from passing through openings in walls and ceilings.

Application areas

In certain areas, including: long hallways, stairways, firewalls, emergency exits and isolation of escape routes, doors must be either fire protective or smoke protective. Different building regulations and terms underlie the planning and construction of buildings. Especially in buildings with a high frequency of visitors and with buildings inhabited by elderly, sick or handicapped people as well as those concerned with the preventitive fire protection. Examples are:

- · Schools and universities
- Kindergardens
- Hospitals
- Retirement homes

- Hotels
- Public buildings
- Banks
- Offices

Fire protection closures reliably seal the critical gap for escape and rescue routes within buildings and structures, therefore guaranteeing the safety of their inhabitants.





Fire-Protection according to DIN 4102

Planning law fundamentals

Regulations and guidelines

The DIN 4102 (fire behaviour of building materials and structural elements) substantiates the terms of the state regulations, the related executive orders as well as additional administrative regulations, which concern constructional fire protection. Planning law fundamentals are:

- State regulations with their additional clauses, e.g. execution specifications
- Executive orders such as workplace regulations, restaurant regulations, regulations for places of public assembly, warehousing regulations or hospital regulations
- Administrative regulations and guidelines concerning the usage of combustible construction materials, multistorey building guidelines, school building guidelines, guidelines for sports facilities

The introduction of regulations and guidelines is the business of states, therefore their validity is **state-specific** as well.

Objectives of constructional fire protection

- Reduction of the occurrence of fires to a minimum
- Guarantee of structural stability in case of fire
- Prevention or repression of the spread of fire within buildings or to other parts of the building
- Guarantee of the rescue of people in case of fire
- Enabling firefighting by the fire brigade
- Protection of material assets

Classification of construction materials

The classification of construction materials is regulated in DIN 4102, part 1. The type of fire is an important factor for classification. Construction materials are divided into:

non-combustible

(construction material class A)

A1 non-combustible and also flameproof

A2 non-combustible

combustible

(construction material class B)

B1 hardly inflammable

B2 normally inflammable

B3 easily inflammable

Classification of structural elements

An additional categorisation, of structural elements, is regulated in DIN 4102, part 2. The structural elements are assigned a letter for identification. Due to their ability to withstand fire for a defined time span, they are classified by **fire resistance period**.

The resistance period is the classifying factor for the fire behaviour of structural elements. The following fire resistance classes are defined:

T 30,F 30,G 30 \geq 30 minutes fire resistance periodT 60,F 60 \geq 60 minutes fire resistance periodT 90,F 90 \geq 90 minutes fire resistance period





Fire-Protection according to DIN 4102

Building materials

Building materials

Building materials are construction materials, structural elements and equipment designed to be permanently installed in buildings and structures.

Building code

The applicability of building materials for any construction project is defined by the state regulations, which relate to the building code. The German institute for building technology (DIBt) publishes the building code. Building materials listed in part A are considered **regulated building materials**. Non-regulated building materials (no generally approved technical rules or technical building clauses) have to be confirmed by either:

- An official technical approval
- An official certificate
- An approval for the individual case

Official technical approval

Fire-Protection-Doors and Glazings need to be officially technically approved. The manufacturer has to provide evidence of this approval by attaching an **official label** on the edge of the door leaf and by handing out a copy of the official technical approval.

Furthermore the manufacturer has to provide contractual evidence and proof that the production of its Fire-Protection-Doors is **monitored** by a certification authority in terms of constant quality and compliance with approved regulations. In case of Fire-Protection-Glazings these documents are substituted by the manufacturer's declaration of compliance.

Official certificate

If building materials have no relevant safety or health requirements or if they are judged by officially accredited test procedures, an official certificate is adequate.

Approval for individual cases

In case of a structural situation demanding unapproved models of a Fire-Protection-Door, a so-called approval for the individual case is necessary. This approval can only be issued by the responsible **building supervisory board** under the condition of bringing forward the necessary verifications of suitability. The approval **for the individual case** is construction project specific and can not be applied elsewhere.





2.3

Fire-Protection according to DIN 4102

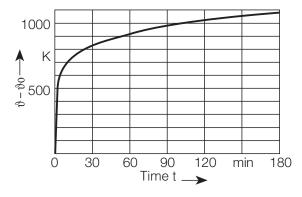
Officially accredited test procedures and test criteria

Fire resistance test

Every fire is different regarding its origin, the ignition sources, the flammability of the burning materials or the oxygen saturation, just to cover some of the most important components.

To accommodate all these different components and fire behaviours in a fire resistance test for structural elements, it was internationally agreed on to assume **a general course during the burning process**.

That is how the so called **uniform-temperature-time-curve** (UTTC) originated, which is also internationally recognised as ISO-curve. This curve predetermines the fire and temperature course during a classifying fire resistance test for structural elements. The test for Fire-Protection-Doors and -Glazings takes place in a burning installation, where the test item is flame impinged on one side while the temperature rises according to the UTTC.



Test criteria

The **significant criteria** for preventative fire protection according to DIN 4102 concerning the **testing of fire protection closures** can be summarised in the following points:

- Fire resistance test according to UTTC and DIN 4102, part 5
- Granting of the space enclosing effect of the fire protection closure
- Prevention of fire passing through
- Structural stability of the fire protection closure
- The increase of temperature on the flame impinged side: at an average of up to 140 K; short-term on selective areas up to 180 K.

After 30 minutes the temperature in the burning installation is about 850° C according to UTTC, after 90 minutes about 1000° C.

Long-term durability test

Predicting a service life of 20 years the Fire-Protection-Doors have to undergo a long-term durability test according to DIN 4102 part 18. This test requires 200.000 opening cycles, during which, door leaf, frame and fittings are tested as a set.



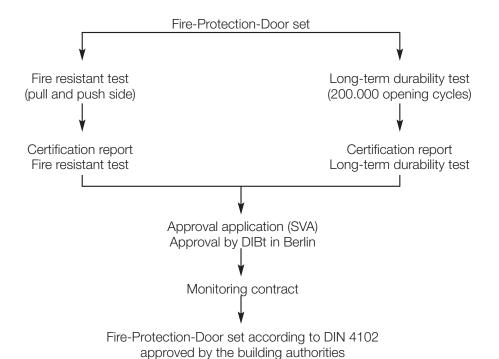


Fire-Protection according to DIN 4102

Test procedures and guidelines

Testing procedure

The testing of Fire-Protection-Door sets is carried out according to DIN 4102 part 5 including a long-term durability test according to part 18. Fire-Protection-Glazings are approved by accredited institutes for material testing according to DIN 4102 part 13. With the approval of the German institute for building technology in Berlin (DiBt) the door set is certified for all states.



Delivery set

As an approved set, door leaf, door frame and the necessary fittings, form the **complete delivery set**. Regarding the requirements for the self-closing function, only approved door closers and hold-open devices (see index door closers), as well as the usage of FS-proven locks and handles (see index locks, handles) are allowed.

Labelling and monitoring

The fire protection function has to be verified by the manufacturer by attaching an official label on the edge of the door leaf and by handing out a copy of the official technical approval. The manufacturer certifies the appropriate configuration of the door set by self- and third party-monitoring with the German Mark of Conformity ('Ü')

Approved installation

While mounting the door set, the compliance of the approved installation as well as the correct combination with wall types and/or Fire-Protection-Glazings, is inevitable. According to part 13 of DIN 4102 official approvals are only issued for combinations of Fire-Protection-Doors and Fire-Protection-Glazings which meet the same fire resistance requirements.





Fire-Protection according to DIN 4102

Permitted modifictions for fire protection closures

On site modifications

Besides the option to shorten the door leaf of T 30 Fire-Protection-Doors under the terms of the approval, specifically the **metal shortening label** on the door leaf edge also the current version of the DIBt approval have to be followed if a **Fire-Protection-Door is modified.**

The following on site modifications on already fabricated fire resistant closures are, according to a notification of the DIBt from the 1. of February 1996, allowed:

Mounting of contacts

For example Reed-contacts and strike plate contacts (bolt contacts) for breach control, provided that they are attached or mounted in factory-made cut-outs.

• Lock replacement

A lock replacement is only possible if the lock is replaced by an adequate self-locking or motor-powered lock with latch. Furthermore the replacement is only permitted if the lock can be fitted into the existing lock body and as long as the strike plate does not have to be modified. A later installation of an electrical strike is not permitted; except where the door frame has been prepared by the manufacturer.

· Attaching of cables on the door leaf

· Installation of optical door viewers

Adhesive label

The screwing, riveting or gluing of adhesive labels onto the door leaf.

Kick plates

The screwing or gluing of metal sheet stripes (up to a height and width of 250 mm) onto the door leaf, for example kick or edge protection.

Ram protection bar

The attaching of ram protection bars and tube handle bars where required using reinforcements (for the attachment of throughout thread rods the drilling must not be more than 12 mm in diameter).

Pushbar

The attaching of complementary pushbars, if, according to the manufacturer's information, adequate mounting points are present.

Complementing of z- and steel corner frames

With counter-frame for steel wrap-around frames.

Complementing of wooden frames

By the attaching of wall junction mouldings.

Affixing of bars (decorative beads)

Possible in any shape and position on the glazing, either made of wood, plasitc material, aluminium or steel.

Nailing and gluing of wooden bars on wooden surfaces

Dimensions of up to 60 mm x 30 mm, but with a maximum of 12 dm³ on each side, there is no restriction for the affixing of decorative beads on wooden frames.

In general, the modifications and complementary works must not affect the functional capability of the fire protection closure (for example the self-closing function).





Fire-Protection according to DIN 4102

In combination with additional door functions

Sound-Insulation

T30, T60, T90 and T120 doors with a factory-equipped effective bottom seal or a 4-sided frame, by default meet Rw,P 32 dB sound insulation requirements. With Fire- and Smoke-Protection-Doors, even higher sound insulation values are possible. For the possible performance range see the table multiple functions with Sound-Insulation. \blacktriangleright Chapter 2.1

Burglar-Protection

1- and 2-leaf Schörghuber Fire-Protection-Doors meet the requirements for resistance classes WK 2, WK 3 and WK 4. The attack side can be chosen from either the pull or push side. Configurations such as vision panels, fanlights, counter-rebated top panels or the installation in lightweight partition walls or Schörghuber F 30 Fire-Protection-Glazings Type 25 V are possible. Different frame variations, made of either steel, wood or wooden materials, can be applied. For a liat of these extensive possibilities see the table multiple functions with Burglar-Protection. \Longrightarrow Chapter 2.1

Smoke-Protection

All T 30, T 60, T 90 and T 120 Schörghuber Fire-Protection-Doors can be fitted with an additional smoke protection function.

T 30, T 60, T 90 and T 120 Fire-Protection-Door sets with 4-sided frame as well as T 30 flaps already meet, due to a circumferential sealing level, the smoke protection requirements. As a general rule, Fire-Protection-Doors with an additional bottom seal for smoke protection must not be shortened on site

Schörghuber F 30 and F 90 Fire-Protection-Glazings are by default considered smoketight, if installed, according to regulations, with elastic sealed joints.

The 2-leaf doors, models 4.01 and 4.11, with fire and smoke protection by default feature a rabbet ledge on the top panel. ➤ Chapter 2.4

Radiation-Protection

Solid 1- or 2-leaf doors without top panels are available with an additional radiation protection function (lead equivalent value of up to 4 mm). If the lead equivalent value is 2 mm or more a lock with shifted follower and cylinder drilling is used. The bolting of the inactive leaf, for 2-leaf door sets is realised with a concealed shot-bolt lock. \blacktriangleright Chapter 2.7

Bullet-Resistant M 3

The solid door T 30 (model 3.00) in special design with steel frame meets the requirements for a Bullet-Resistant-Door. \blacktriangleright Chapter 2.8

Wet Room

T 30 doors, types 3 N and 4 N, in special design can be constructed as Wet Room Doors with the adequate materials. ➤ Chapter 2.9

Climate category II

The whole range of Schörghuber Fire-Protection-Doors meets the requirements for Climate category II. Due to constructive actions all doors, except the solid wood framed door, are available in Climate category III.

Climate category III

The T 30 door types 16 N and 26 N by default meet the requirements for Climate category III.

→ Chapter 2.11

Climate category IV

Door type 35 N reaches this high standard. ➤ Chapter 2.11

Thermal insulation

In combination with the T 30 fire protection function, door type 35 N meets high thermal insulation requirements. → Chapter 2.12

Mechanical stress group

All solid doors in the range of Schörghuber Fire-Protection-Program meet the requirements of stress group S, therefore they resist static and dynamic deformation as well as hard and soft impact.

Door types 3 N,13 N, 4 N, 14 N, 5 N, 6 N, 16 N and 26 N in special design also meet the requirements of stress group E. On request other door types can be upgraded to this standard.

→ Chapter 2.13





Smoke-Protection

CE marking

Fit for Europe!

With the introduction of the product standards for Smoke-Protection-Doors (EN 16034, publication at end of 2011), it becomes possible as an application certification to label the door set with the "CE" label which is accepted Europe wide and will become mandatory after an as yet defined transitional period. Basis for granting the CE conformity certificate, which allows labelling, are tests for Smoke-Protection and durability of the self-closing function (DIN EN 1191) at an accredited test facility according to DIN EN 14600 respectively DIN EN 1634-3.

Since the announcement of these standards, Schörghuber develops and tests exclusively according to the demanded criteria in order to be able to offer its clients products which are technically state-of-the-art and that will fulfill the Smoke-Protection requirements of the future!

Classification, according to DIN EN 13501-2, is carried out with the following descriptions:

S_{a/m} Smoke-Protection (with index a or m)

C Durability of the self-closing function (C0 - C5)

Smoke-Protection (S $_{a/m}$) is the ability of the Smoke-Protection-Door set to reduce the smoke passage to an allowed leakage rate at an air pressure of up to 50 Pa. For 1-leaf door sets the allowed leakage rate is a maximum of 20 m³/h, for 2-leaf door sets a maximum of 30 m³/h. The indexes 'a' and 'm' represent the temperature in the test chamber during the testing. 'a' indicates testing at room temperature and 'm' at 200 °C.

Durability of the self-closing function (C) is the ability of the Fire-Protection-Door set, under the testing conditions in DIN EN 1191, to continously sustain its self-closing function. The door leaf, frame and hardware are tested as a unit.

Classification is carried out according to DIN EN 14600:

Class	Number of cycles
C0	0
C1	500
C2	10000
C3	50000
C4	100000
C5	200000

In Germany Smoke-Protection closures with the classification S_m-C5 are used.

Until the complete adoption of the new European standards and their integration into national building regulations, all parties on a building project need to inform themselves about the current classification system.

In the area of Smoke-Protection-Doors and glazings, Schörghuber is a competent contact regarding the new European standards!

Ask our sales team, we are happy to inform and help you!





Smoke-Protection acc. to DIN 18095

Planning laws and test procedures

The effect of Smoke-Protection-Doors

In case of fire, smoke emission is often an underestimated danger. Within seconds smoke can spread throughout the entire building.

Smoke and fumes are therefore life-threatening and can be the cause of panic, line-of-sight obstruction, oxygen deficiency and toxicity. Smoke and toxic fumes decrease the oxygen content and can lead to death within seconds.

The function of installed and **closed** Smoke-Protection-Doors is to hinder the smoke and fumes from passing through.

Smoke-Protection-Doors according to DIN 18095

The DIN 18095, as a **technical building regulation** has been introduced in all German states. With the introduction of this DIN it became mandatory to install a so called smoketight door, officially approved by DIN 18095, whenever smoke protection function is required.

Impermeability test

The mandatory impermeability test allows a certain leakage rate for the passage of smoke in a closed door set. Under a pressure of 5 to 50 Pa and an ambient temperature of 200° C the leakage rate must not exceed the following values:

- 20 m³/h for 1-leaf RS doors
- 30 m³/h for 2-leaf RS doors

Smoke-Protection-Doors and fittings must not deform, nor open, during the impermeability test.

The 2-leaf doors, models 4.01 and 4.11, with counter-rebated door leaf/top panel by default feature a rabbet ledge on the top panel.

Long-term durability test

DIN 18095 demands that Smoke-Protection-Doors undergo a long-term durability test according to DIN 4102 part 18. This test requires 200.000 opening cycles, during which, door leaf , frame and fittings are tested as a set.





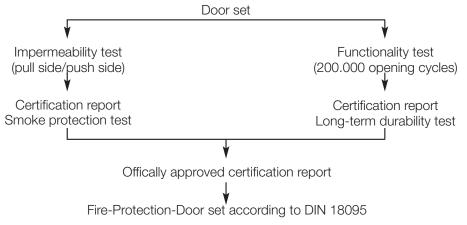
Smoke-Protection acc. to DIN 18095

2.4

Test procedures and guidelines

Test procedures

Due to the introduction of the Smoke-Protection-Door as a regulated building material, testing according to DIN 18095 in an officially accredited Institute for Material Testing has become mandatory.



Labeling and monitoring

The fire protection function has to be verified by the manufacturer by attaching an official label on the edge of the door leaf and by handing out a copy of the official technical approval.

- Door DIN 18095-RS 1 (1-leaf door)
- Door DIN 18095-RS 2 (2-leaf door)

The manufacturer has to make sure and certify that production of the Smoke-Protection-Doors is monitored for constant quality and performance.

In regard to the requirements for the self closing function, only approved door closers and hold-open devices are allowed. Smoke-Protection-Doors just like Fike-Protection-Doors can only fulfil their function when closed.

Delivery set

As an approved set, door leaf, door frame and the necessary fittings, form the **complete delivery set**.

Permitted modifications for smoke protection closures

If necessary Smoke-Protection-Doors without fire protection function can be shortened, as long as the groove for the bottom seal is remilled according to the certification report, specifically the metal shortening label on the door leaf edge.

If additional security fittings, such as security bolts, magnetic contacts, etc. or other additional equipment components such as protective plates or ram protection bars are installed, they must not interfere with the self-closing and smoke-hindering functions of the door set.

The installation of warded locks is not permitted for Smoke-Protection-Doors. In addition to that helical hinges are not permitted in combination with Smoke-Protection-Doors, because the norm requires door closers with hydraulic absorbability.

Approved installation

While mounting the Smoke-Protection-Door set follow the certification report as well as the installation manual. Particular care is necessary while sealing the joint between frame and wall with a permanent elastic material (e.g. silicone), to prevent any leakage of smoke. The impermeability of the door set is primarily based on the frame sealing and the bottom seal. Therefore their maintenance and, if damaged, their replacement is necessary.





Smoke-Protection acc. to DIN 18095

In combination with additional door functions

Sound-Insulation

RS doors with factory-equipped effective bottom seal or a 4-sided frame, by default meet Rw,P 32 dB sound insulation requirements. Smoke-Protection-Doors can reach even higher sound insulation values. For the possible performance range see the table multiple functions with Sound-Insulation.

Chapter 2.1

Burglar-Protection

1- and 2-leaf Schörghuber RS doors meet, with special factory-equipment, the requirements for resistance classes WK 2, WK 3 and WK 4. The attack side can be chosen from either the pull or push side. Configurations such as vision panels, fanlights, counter-rebated top panels or the installation in lightweight partition walls or Schörghuber Smoke-Protection-Glazings type 25 V-RS are possible. Different frame variations, made of either steel, wood or wooden materials, can be applied. For a list of these extensive possibilities see the table multiple functions with Burglar-Protection.

Chapter 2.1

Radiation-Protection

RS doors with vision panel and/or top panel are available with an additional radiation protection function (lead equivalent value of up to 4 mm). If the lead equivalent value is 2 mm or more a lock with shifted follower and cylinder drilling is used. The bolting of the inactive leaf, for 2-leaf door sets, is realised with a concealed shot-bolt lock. \blacktriangleright Chapter 2.7

Bullet-Resistant M 3

The solid Smoke-Protection-Door (model 3.00) in special design with steel frame meets the requirements for a Bullet-Resistant-Door. ➡ Chapter 2.8

Wet Room

Smoke-Protection-Doors, types 3 N and 4 N, in special design can be constructed as Wet Room Doors with the adequate materials. → Chapter 2.9

Climate category II

The whole range of Schörghuber Smoke-Protection-Doors meets the requirements for Climate category II. Due to constructive actions all doors, except the solid wood framed door, are available in Climate category III.

Climate category III

The door types 16 N and 26 N by default meet the requirements for Climate category III.

→ Chapter 2.11

Climate category IV

Door type 35 N reaches this high standard. ➤ Chapter 2.11

Thermal insulation

In combination with the smoke protection function, door type 35 N meets high thermal insulation requirements. \Rightarrow Chapter 2.12

Mechanical stress group

All solid doors in the range of Schörghuber Smoke-Protection-Program by default meet the requirements of stress group S, therefore they resist static and dynamic deformation as well as hard and soft impact.

Door types 3 N,13 N, 4 N, 14 N, 5 N, 6 N, 16 N and 26 N in special design also meet the requirements of stress group E. On request other door types can be upgraded to this standard.

Chapter 2.13





Sound-Insulation

CE marking

Fit for Europe!

With the introduction of product standards for internal doors (EN 14351-2, publication at the end of 2011) and external doors / windows EN 14351-1 (since 02-2010), it is also mandatory to label sound-insulating structural elements with the CE label. On the CE conformity certificate the rated sound-insulation value of the door sets (Rw) with the spectral adaptation values (C; C_{tr}) according to DIN EN 717-1, have to be stated, i.e. Rw = 32 dB (-1; -2)

The spectral adaptation values describe the change in sound-insulation value for special applications and their typical sound spectra. Whereas C stands for the change in the sound-insulation values against the immitation of typical day to day noises and C_{tr} for the change in sound-insulation values against the immitation of typical traffic noises. The sound-insulation value of the door sets is for example predominantly day to day noises calculated from Rw + C.

Warning!

The rated sound-insulation value Rw according to DIN EN 717-1 is the test value given by a test in a laboratory according to DIN EN ISO 140.

According to DIN 4109 the Rw value describes the on-site necessary sound-insulation value. The test value according to testing in a laboratory according to DIN EN ISO 140 is described as Rw,P.

Rw according to DIN EN 717-1 = Rw,P according to DIN 4109

In Germany, for the use of Sound-Insulating-Door sets, the DIN 4109 is still the valid standard.

Since the announcement of these standards, Schörghuber develops and tests exclusively according to the demanded criteria in order to be able to offer its clients products which are technically state-of-the-art and that will fulfill the Smoke-Protection requirements of the future!

Until the complete adoption of the new European standards and their integration into national building regulations, all parties on a building project need to inform themselves about the current classification system.

In the area of Smoke-Protection-Doors and glazings, Schörghuber is a competent contact regarding the new European standards!

Ask our sales team, we are happy to inform and help you!





Sound-Insulation acc. to DIN 4109

Planning laws

Minimum requirements of airborne sound insulation for doors

Due to the fact that the DIN 4109 has been introduced as technical building regulation in all German states, the **minimum requirements** for sound insulation between certain rooms and areas are mandatory.

The DIN 4109 allows three different standards for the airborne sound insulation in order to prevent sound propagation from external living and work spaces. These are according to application areas organised in **sound insulation values** Rw,P 32 dB, Rw,P 37 dB and Rw,P 42 dB.

If necessary it may be appropriate to determin the sound insulation values in the tender specifications according to the increased recommendations of DIN 4109 (see bracket values).

Building type	Areas and rooms, in-between which doors are installed			Rw,R in dB	Rw,P in dB
Multistorey buildings with appartments and offices	Corridors and ←→ Hallways, lobbies stairways		27 (37)	32 (42)	
	Corridors and stairways	\leftrightarrow	Common rooms in apartments	37	42
Schools – educational buildings	Hallways	\leftrightarrow	Classrooms and similar rooms	32	37
Accommodations	Hallways	\leftrightarrow	over night accommodation	32 (37)	37 (42)
Hospitals/ nursing homes	Examination and consulting rooms	\leftrightarrow	Examination and consulting rooms	37	42
	Hallways	\leftrightarrow	Examination and consulting rooms	37	42
	Hallways	\longleftrightarrow	Ward rooms	32 (37)	37 (42)
	Operating/ sick rooms	\leftrightarrow	Operating/ sick rooms	32	37
	Hallways	\leftrightarrow	Operating rooms/ surgery	32	37

Table: Minimum requirements of the airborne sound insulation for doors (excerpt from DIN 4109)





Sound-Insulation acc. to DIN 4109

Significant values

Sound insulation values of doors

According to DIN 4109 sound insulation tests of installed, ready-for-use door sets have to be made in order to ensure the perfect coaction of door leaf and gasket.

Term used by Schörghuber		Rw,R value according to DIN 4109	Test stand value Rw,P value
Sound-Insulation	SD 32	27 dB	32 dB
Sound-Insulation	SD 37	32 dB	37 dB
High Sound-Insulation	SD 42	37 dB	42 dB
High Sound-Insulation	SD 45	40 dB	45 dB*
Extreme Sound-Insulation	n SD 48	43 dB	48 dB*
Extreme Sound-Insulation	n SD 50	45 dB	50 dB*

^{*} Tested stand value exceeds requirements of DIN 4109 (max. demanded value Rw,P 42 dB).

Rated sound insulation value

Significant parameters for the requirements of airborne sound insulation and subsonic noise insulation of structural elements are:

Rw Rated sound insulation value in dB **without sound propagation** of flanked structural elements.

Rw is in the tender specification demanded and the on site expected sound insulation value of the stuctural element. For the calculations of the edificial acoustitcian this value is defined as Rw,R.

R'w Rated sound insulation value in dB **with sound propagation** of flanked structural elements.

According to DIN 4109 (issue Nov. '89) the **rated sound insulation value Rw** is divided into:

Rw,P Value determined during the suitability test of the structural element - in the case of the complete door set, consisting of door leaf, frame, fittings and sealing agent - in the sonic laboratory, according to DIN EN ISO 140.

Rw,R Calculation value which must be identical with the on site requested value.

Allowance of tolerances

The test stand determined sound insulation value (Rw,P) for **doors** has to exceed the on site requested minimum requirements (Rw,R) by an **allowance of tolerances** of at least 5 dB. The following applies:

 $Rw_1R = Rw_1P - 5 dB$

Fixed glazings have to exceed the on site requested minimum requirements (Rw,R) by an **allowance of tolerances** of at leat 2 dB. The following applies:

Rw,R = Rw,P - 2 dB

The allowance of tolerances is supposed to account for possible differences in sound insulation between the test stand and the requested requirements, due to the on site characteristics and the potential dispertion of the characteristics of the tested door set.





Sound-Insulation acc. to DIN 4109

Regulations for Sound-Insulation-Doors

- **Rw,P = 32 dB** value is met with an effective bottom seal in the door leaf and a 3-side circumferential sealing agent in the frame or with a 4-sided frame with a circumferential sealing agent. This sound insulation value is met by the following door types 1 N, 3 N/4 N, 16 N/26 N, 3 N-NT/4 N-NT, 3-60, 4-60, 3-90 and 25 N/27 N respectively 25 N Slimline/27 N Slimline.
- **Rw,P = 37 dB** value is met with one sealing level, by the following door types 1 N / 13 N / 14 N, 25 N / 27 N, 5 N / 6 N, 35 N, 5-60 / 6-60, 120-1, 25 N Slimline / 27 N Slimline respectively 8 N. The door types 10 N / 20 N and 24 N reach this value with a second sealing on the double rebate.
- **Rw,P = 42 dB** value is met with an additional rebate gasket, respectively with a second sealing level in the frame jamb (unrebated door leaf with jamb rebate), as well as a second effective bottom seal for the door types $13 \, \text{N} / 5 \, \text{N} / 6 \, \text{N}$ respectively 5-60/6-60. The T 90 doors type 80-1/80-2 reaches the value with a combination of fire-resistant inlays and highly sound-insulating materials, for the T 90 doors type $91 \, \text{N} / 92 \, \text{N}$ an additional sealing level is necessary.
- **Rw,P = 48 dB** value is met with the door types 17 N and 50-1/50-2 by using highly sound-insulating materials and three sealing levels as well as two bottom seals. The door leaf of door type 17 N has to be rebated with double jamb rebate and an additional rebate gasket. For the door types 50-1/50-2 the edge configuration unrebated with triple jamb rebate is possible as well.
- **Rw,P = 50 dB** value is met with the door types 50-1/50-2 by using highly sound-insulating materials and three sealing levels as well as three bottom seals. The edge configurations unrebated with triple jamb rebate as well as rebated with double jamb rebate and an additional rebate gasket are possible.

For possible combinations see ➤ Chapter 2.1

Configuration

The above listed sound insulation values (Rw,P) have been approved for 1- and 2-leaf doors with top panel (top panel/fanlight) up to Rw,P 50 dB. The Schörghuber program comprises rebated and unrebated doors (partly unrebated with jamb rebate) with vision panel and an extensive range of steel and wooden frames.

A complete door set consists of **the door leaf, the door frame and the sealing agent** as stated in the certification report, in order to reach the specified sound insulation value during an on site sound measurement.

Rebated doors with Rw,P \geq 42 dB require hinges which support a rebate gasket.

If a floor-mounted door closer with cover panel is installed, a decrease in the sound insulation value has to be expected. For the installation of concealed door closers (ITS 96) the tested sound insulation value is met without any limitation.





Sound-Insulation acc. to DIN 4109

Installation and mounting

Installation instructions

A precondition for the achievment of the warranted sound insulation value is the correct installation of the door set. The provided Schörghuber installation manuals and the mounting regulations need to be followed.

Term used by Schörghuber	Requirements Rw,P acco. to DIN 4109	Steel door frame Solid wall	Steel door frame Gypsum plasterboard
SD 32	32 dB	Mortar Mineral wool 2-K-PU-foam	Mineral wool 2-K-PU-foam Mortar
SD 37	37 dB	Mortar Mineral wool 2-K-PU-foam	Mineral wool 2-K-PU-foam Mortar
SD 42	42 dB	Mortar Mineral wool	Mortar Mineral wool
SD 45/SD 48/SD 50	45 dB/48 dB/50 dB	Mortar	Mortar

Term used by Schörghuber	Requirements Rw,P acc. to DIN 4109	Wooden door frame Solid wall	Wooden door frame Gypsum plasterboard
SD 32	32 dB	2-K-PU-foam	Mineral wool 2-K-PU-foam
SD 37	37 dB	Mineral wool 2-K-PU-foam	Mineral wool 2-K-PU-foam
SD 42 / SD 45	42 dB / 45 dB	Mineral wool 2-K-PU-foam	Mineral wool 2-K-PU-foam
SD 48 / SD 50	48 dB / 50 dB	Mineral wool	Mineral wool

The following installation instructions should be seen as an addition to the installation manual. Generally the correct filling of the cavities is essential. A complete filling with mortar or the tight stuffing with mineral wool is as important as the gapless filling with 2-K-PU-foam.

According to DIN 18111 the cavities of steel frames in solid walls have to be completly filled with mortar. In order to reach the sound insulation value, steel frames without filling have to be sealed with a permanent elastic material (e.g. silicone).

Wooden door frames have to be sealed on at least one side. From Rw,P 37 dB on both sides have to be sealed.

The predetermined ground clearance of Sound-Insulation-Doors is 7 mm, if the ground clearance is more than 7 mm a decrease in the sound insulation function has to be expected. Starting with an on site sound insulation value of Rw 32 dB (Rw,P 37 dB) an effective disjunction of the screed has to be planned, in order to prevent subsonic sound insulation. If carpet is used, the carpet needs to be divided and a ground sill must be installed. The bottom seal has to be adjusted with great care. Therefore it is important that the contact pressure is applied evenly on the whole door leaf width.

If the frame is not correctly installed in the wall opening, a decrease in the sound insulation has to be expected.

Adjacent sound transmission ways

Even if the sound insulating door set is correctly installed, sound transmission through walls, the floor or the ceiling is possible (adjacent sound transmission paths). Primarily these are:

- Walls (airborne and impact sound)
- Cable ducts and channels (airborne and impact sound)
- Door closures (airborne sound)
- Ceilings (impact sound/subsonic noise)
- Heating installation (impact sound)
- Air ventilation ducts (airborne and impact sound)
- Electrical installations, such as outlets or switches (airborne sound)





Sound-Insulation acc. to DIN 4109

In combination with additional door functions

Burglar-Protection

1- and 2-leaf Schörghuber RS doors meet, with special factory-equipment, the requirements for resistance classes WK 2, WK 3 and WK 4. The attack side can be chosen from either the pull or push side. Configurations such as vision panels, fanlights, counter-rebated top panels or the installation in lightweight partition walls or Schörghuber Smoke-Protection-Glazings type 25 V-RS are possible. Different frame variations, made of either steel, wood or wooden materials, can be applied. For a list of these extensive possibilities see the table multiple functions with Burglar-Protection.

Chapter 2.1

Radiation-Protection

RS doors with vision panel and/or top panel are available with an additional radiation protection function (lead equivalent value of up to 4 mm). If the lead equivalent value is 2 mm or more a lock with shifted follower and cylinder drilling is used. The bolting of the inactive leaf, for 2-leaf door sets, is realised with a concealed shot-bolt lock. \blacktriangleright Chapter 2.7

Bullet-Resistant M 3

The solid Smoke-Protection-Door (model 3.00) in special design with steel frame meets the requirements for a Bullet-Resistant-Door. ➤ Chapter 2.8

Wet Room

Smoke-Protection-Doors, types 3 N and 4 N, in special design can be constructed as Wet Room Doors with the adequate materials. ➤ Chapter 2.9

Climate category II

The whole range of Schörghuber Smoke-Protection-Doors meets the requirements for Climate category II. Due to constructive actions all doors, except the solid wood framed door, are available in Climate category III.

Climate category III

The door types 16 N and 26 N by default meet the requirements for Climate category III.

→ Chapter 2.11

Climate category IV

Door type 35 N reaches this high standard. → Chapter 2.11

Thermal insulation

In combination with the smoke protection function, door type 35 N meets high thermal insulation requirements. \Longrightarrow Chapter 2.12

Mechanical stress group

All solid doors in the range of Schörghuber Smoke-Protection-Program by default meet the requirements of stress group S, therefore they resist static and dynamic deformation as well as hard and soft impact.

Door types 3 N,13 N, 4 N, 14 N, 5 N, 6 N, 16 N and 26 N in special design also meet the requirements of stress group E. On request other door types can be upgraded to this standard.

→ Chapter 2.13





Burglar-Protection

CE marking

Fit for Europe!

With the introduction of product standards for internal doors (EN 14351-2, publication at the end of 2011) and external doors / windows EN 14351-1 (since 02-2010), it is also mandatory to label the structural elements with Burglar-Protection functionality with the CE label. On the CE conformity certificate the classification according to the pre-standard DIN V ENV 1627 with respect to DIN EN 1627 has to be stated.

2.6

DIN EN 1627

In 2011, approximately, the pre-standard DIN V ENV 1627 will be replaced by the DIN EN 1627. The requirements of the pre-standard will change. In order to emphasise this difference the grades of classification steps have been renamed RC1 – RC6. A direct comparison between classifications according to the pre-standard DIN V ENV 1627 is not possible. According to the correlation table the valid test certificates for elements tested and classified in such a manner are still labeled as Burglar-Protection structural elements WK1 – WK6. Test certificates according to DIN V 18103 with the classifications ET1 – ET3 can not be used anymore.

Regardless Schörghuber Burglar-Protection door sets are tested and classified according to the new, and in future valid, DIN EN 1627. Therefore we offer our clients products which are technically state-of-the-art and fulfill the Burglar-Protection requirements of the future!

In the area of Burglar-Protection-Doors and glazings, Schörghuber is a competent contact regarding the new European standards!

Ask our sales team, we are happy to inform and help you!





Multiple functions 2.6 **Burglar-Protection acc. to DIN V ENV 1627**

Classification and test procedures

Terms and test regulations

Burglar-Protection-Doors are suitable for protective areas or rooms where unauthorised and forceful entry should be hindered or constrained.

Since April 1999 the DIN V ENV 1627 has replaced the previous DIN V 18103. Burglar-Protection-Door sets are now graded up to class 6:

While the prestandard exists, the certification reports and the test reports according to DIN V 18103 are valid as proof of Burglar-Protection according to the **correlation chart NA.3** of DIN V ENV 1627. Irrespective of that all Schörghuber Burglar-Protection-Doors are approved according to DIN V ENV 1627.

Resistance class DIN V ENV 1627	DIN V 18103	Resistance time	Type of criminal Assumed approach
WK 1	1	no manual test	Structural elements of resistance class 1 feature basic protection against break-in attempts with physical force, such as kicking against, jumping against, shoulder ramming, pushing up and ripping out (prevalent vandalism)
WK 2	ET 1	3 minutes	The occasional criminal uses simple tools such as a screwdriver, a gripper and cutters in order to open the locked and bolted structural element.
WK 3	ET 2	5 minutes	The criminal tries to open the locked and bolted structural element with an additional screwdriver and a crowbar.
WK 4	ET 3	10 minutes	The experienced criminal uses additional cutting tools and hitting tools such as an axe, a prybar, a hammer and a chisel as well as a power drill.
WK 5	_	15 minutes	The experienced criminal uses additional electronic tools, such as a power drill, a jigsaw, a sabre saw and an angle grinder with a maximum disc diameter of 125 mm.
WK 6	_	20 minutes	The experienced criminal uses additional powerful electronic tools, such as a power drill, a jigsaw, a sabre saw and an angle grinder.

A Burglar-Protection-Door is a door which can, **if closed, locked and bolted**, withstand break-in attempts with physical force (without tools as well as with tools) for a certain period of time (resistance time).

The tests performed by a DIN CERTCO accredited testing laboratory. The certified structural elements are permanently marked with an official label.

Static test

During the testing of the door statics, the door set is stessed perpendicular to the door leaf with a test cylinder over a defined period of time in the hinges and bolting spots. The door leaf's maximum deflexion out of the frame must not exceed the determined maximum permitted value.

Shock loading

The tub consists of a sand filled leather ball (d \approx 350 mm) with a mass of 30 kg. It is dropped on the door leaf from heights of 0,8 and 1,2 m with a deflexion of 1,5 m. During these tests the door leaf must not open or deform.

Manual resistance test

The manual resistance test is divided in to the pretest and the main test. During the pretest the weak spots of the door set are analysed. Afterwards in the main test an inspector tries to open the door or clear a passageway, using the defined tools within the resistance time.





2.6

Burglar-Protection acc. to DIN V ENV 1627

Configuration WK 1, WK 2, WK 3 and WK 4

Resistance class WK 1

All Schörghuber solid door sets in combination with the current frame versions can be delivered as Burglar-Protection-Door sets according to the resistance class WK 1, using the proper security fittings.

Resistance class WK 2

All solid 1-leaf doors with 50 mm door leaf thickness out of the Schörghuber delivery range can be delivered as Burglar-Protection-Door sets in resistance class WK 2. A combination with various frame versions, such as steel frames, wooden wrap-around frames, wooden block frames as well as solid wooden frames, is possible. Type 3N and 13 N door sets with counter rebated top panel and fanlight are available in all steel and wooden frame versions. Models with 70/91 mm door leaf thickness are available with vision panel and as 2-leaf door sets approved in resistance class WK 2.

The solid T 90 Fire-Protection-Doors types 8 N/24 N and 80-1/80-2 are available with wooden and steel frames, also with counter rebated top panel in resistance class WK 2.

For resistance class WK 2 (attack side = push side)

the following equipment is necessary:

- Lock according to DIN 18251 respectively 18250 with special security equipment
- For 2-leaf doors, lock with 3-way bolting
- For 1-leaf doors, optionally with 3-way bolting
- ES 1 or ES 2 approved security knob-lever-set
- 2 mm sheet thickness for steel frames
- Optionally up to 5 additional security bolts on the pull side edge

For resistance class WK 2 (attack side = pull side)

the following additional equipment is necessary:

- Hinges with security pin and welded hinge roll
- Joint clearance limiter
- Special core frame material for wooden frames

Resistance class WK 3

The 1-leaf doors (70/91 mm door leaf thickness) types 16 N, 5 N, 35 N and 50-1 are available with various frame versions, such as steel as well as wooden wrap-around frames, block frames as well as solid wooden frames, with vision panel, fanlight type 25 V or counter rebated top panel.

The 2-leaf doors types 6 N and 26 N are available as lintel-high door sets in resistance class WK 3 with the attack side on push side.

The solid T 90 Fire-Protection-Doors types 8 N and 80-1 are available with steel frames, also with counter rebated top panel in resistance class WK 3.

For resistance class WK 3 (attack side = push side)

the following equipment is necessary:

- Lock with 3-way bolting
- ES 2 approved security knob-lever-set
- 2 mm sheet thickness for steel frames
- Special core frame material for wooden frames
- 5 additional security bolts on the pull side edge
- Joint clearance limiter

For resistance class WK 3 (attack side = pull side)

the following additional equipment is necessary:

• Hinges with security pin and welded hinge roll

Resistance class WK 4

The door type 16 N is available with various steel and wooden frame versions for the attack side when it's on the push side. The rebate width is 30 mm.

For resistance class WK 4 the following equipment is necessary:

- Special door leaf construction
- ES 3 approved security knob-lever-set
- Reinforced wooden frames
- 2 mm sheet thickness for steel frames
- 3-way bolting with hook lock
- Reinforced strike plate
- 5 additional security bolts on the pull side edge
- Joint clearance limiter





Burglar-Protection acc. to DIN V ENV 1627

Configuration WK 1, WK 2, WK 3 and WK 4

Requirements for connecting walls

If Burglar-Protection-Door sets are installed, certain standards have to be considered while planning the wall type and thickness:

Solid wall

Resistance class of the	Masonry according to DIN 1053 part 1			Steel concrete according to DIN 1045	
Burglar- Protection-Door	Minimum width in mm	Pressure resis- tance class of the stones	Mortar group at least	Minimum width in mm	Material strength class at least
WK 1	≥ 115 mm	≥ 12	II	≥ 100 mm	B 15
WK 2	≥ 115 mm	≥ 12	II	≥ 100 mm	B 15
WK 3	≥ 115 mm	≥ 12		≥ 120 mm	B 15
WK 4	≥ 240 mm	≥ 12		≥ 140 mm	B 15
WK 5	_	_	_	≥ 140 mm	B 15
WK 6	_	_	_	≥ 140 mm	B 15

(Excerpt of the DIN V ENV1627)

Gypsum plasterboard wall

Schörghuber Burglar-Protection-Door sets are also approved for installation in gypsum plasterboard walls. The walls need to be reinforced on the steel pipes minimum dimensions 50/50/4 mm (matching the dimensions of the wall system and the required static values) fastened on the unfinished floor and ceiling in the area of the door opening. A horizontal pipe across the lintel connects the two perpendicular pipes.

Adequate breakthrough resistant gypsum plasterboard walls need to meet one of the following requirements:

Rsistance class of the Burglar- Protection-Door	DIN 52 290 (old)	DIN EN 356 (new)	VdS 2534	DIN ENV 1627
WK 2	А3	P4 A	N	WK 2
WK 3	B 1	P6 B	А	WK3

e.g:

- Rigips System 6.50.00 fire wall TB
- Knauf security wall W 118
- Lafarge fire wall L 18





2.6

Burglar-Protection acc. to DIN V ENV 1627

In combination with additional door functions

Sound-Insulation

RS doors with factory-equipped effective bottom seal or a 4-sided frame, by default meet Rw,P 32 dB sound insulation requirements. Smoke-Protection-Doors can reach even higher sound insulation values. For the possible performance range see the table multiple functions with Sound-Insulation.

Chapter 2.1

Radiation-Protection

RS doors with vision panel and/or top panel are available with an additional radiation protection function (lead equivalent value of up to 4 mm). If the lead equivalent value is 2 mm or more a lock with shifted follower and cylinder drilling is used. The bolting of the inactive leaf, for 2-leaf door sets, is realised with a concealed shot-bolt lock. \blacktriangleright Chapter 2.7

Bullet-Resistant M 3

The solid Smoke-Protection-Door (model 3.00) in special design with steel frame meets the requirements for a Bullet-Resistant-Door. ➤ Chapter 2.8

Climate category II

The whole range of Schörghuber Smoke-Protection-Doors meets the requirements for Climate category II. Due to constructive actions all doors, except the solid wood framed door, are available in Climate category III.

Climate category III

The door types 16 N and 26 N by default meet the requirements for Climate category III.

→ Chapter 2.11

Climate category IV

Door type 35 N reaches this high standard. → Chapter 2.11

Thermal insulation

In combination with the smoke protection function, door type 35 N meets high thermal insulation requirements. > Chapter 2.12

Mechanical stress group

All solid doors in the range of Schörghuber Smoke-Protection-Program by default meet the requirements of stress group S, therefore they resist static and dynamic deformation as well as hard and soft impact.

Door types 3 N,13 N, 4 N, 14 N, 5 N, 6 N, 16 N and 26 N in special design also meet the requirements of stress group E. On request other door types can be upgraded to this standard.

Chapter 2.13





Radiation-Protection acc. to DIN 6834

Regulations and requirements

DIN 6834 Radiation-Protection-Doors

Radiation-Protection-Door sets, types 3 N and 16 N, are available with lead (Pb) inlay in the different configurations as solid door, door with vision panel and door with top panel. They are mostly used in order to block x-rays, gamma rays and thermionic rays, preferably in rooms reserved for medical use, e.g. rooms for diagnostics and therapies.

Radiation-Protection is achieved by including a lead inlay in the door leaf structure. The thickness of the lead inlay (in mm) is defined by the so called lead equivalent value according to DIN 6845. The lead equivalent value of a door is determined by the sum of the thickness of the two lead inlays in the door leaf.

The required lead equivalent value of a Radiation-Protection-Door is determined by the radiation protection plan according to DIN 6812, 6846 or 6847 for the construction of an equivalent complex. The Radiation-Protection value of the door has to match the required lead equivalent value required to shield the radiation.

Function

Neither the fittings nor the special equipment must interfer with the doors function or lower the lead equivalent value. The use of lead glazings as vision panel and intercommunication glazing is according to DIN 6841 possible. According to DIN 6834 surface defects of the lead inlay, in the area of the handles and the keyhole drilling, are allowed as long as they are less than 2 mm of the lead equivalent. If the lead equivalent value is 2 mm or more every Radiation-Protection-Door must be equiped with a special lock with shifted follower and cylinder drilling. In general Radiation-Protection-Doors can be ordered with a lead equivalent value of up to 4 mm.

The radiation barrier of the door must not be disrupted by any angular radiation in the area of the door rebate and the wall connection.

The radiation protection function of the door has to be verified by the manufacturer by attaching an official label on the edge of the door leaf.

Installation

The cavities between the steel frame and the wall have to be done either dry, by padding the cavities with wooden bars and lead strips or by filling the cavities with radiation protection mortar.





Radiation-Protection acc. to DIN 6834

In combination with additional door functions

Sound-Insulation and Burglar-Protection

Radiation-Protection-Doors can be equipped with sound insulation and burglar protection function, but then these are eponymous functions. For the possible performance range see the tables multiple functions. \Longrightarrow Chapter 2.5 and 2.6

Climate category II

The Schörghuber Radiation-Protection-Door type 3 N meets the requirements for Climate category II. Due to constructive actions this door type is also available in Climate category III.

Climate category III

The Schörghuber Radiation-Protection-Door type 16 N in special design meets the requirements for Climate category III. ➤ Chapter 2.11

Mechanical stress group

All solid doors in the range of Schörghuber Bullet-Resistant-Program by default meet the requirements of stress group S, therefore they resist static and dynamic deformation as well as hard and soft impact.

Door types 3 N,13 N, 4 N, 14 N, 5 N, 6 N, 16 N and 26 N in special design also meet the requirements of stress group E. On request other door types can be upgraded to this standard. \blacktriangleright Chapter 2.13



504



Multiple functions

Bullet-Resistant M 3

Regulations and requirements

Resistance class M 3

The requirements of the "bullet resistance class M 3" are met, on the basis of the tests of the resistance class C 3 according to DIN 52290, part 2 (attack-blocking glazings), with the door model 3.00.

Depending on the type of the operational demands (bore, bullet type) the bullet resistance class is determined. In order to confirm the resistance class M 3 a heavy handgun, bore "44 Magnum" (revolver, pan headed full metal jacket with a soft core) is fired off from a 3 metre distance.

Function

Bullet-Resistant-Doors are used in areas with increased security requirements against invasion raids. Examples are banks, airports, police stations, ministries and embassies.

The door's bullet resistant function has to be verified by the manufacturer by attaching an official label on the edge of the door leaf.

Installation

The installation of Bullet-Resistant-Doors is only possible with a steel frame in solid walls.







Bullet-Resistant M 3

In combination with additional door functions

Sound-Insulation and Burglar-Protection

The Bullet-Resistant-Door type 3 N can be equipped with sound insulation up to Rw,P 32 dB and burglar protection up tp WK 3, but then these are the eponymous functions. For the possible performance range see the tables multiple functions. ➡ Chapter 2.5 and 2.6

Climate category III

The Schörghuber Bullet-Resistant-Door type 3 N by default meets the requirements for Climate category III.

Mechanical stress group

The Bullet-Resistant-Door type 3 N by default meets the requirements of stress group S, therefore they resist static and dynamic deformation as well as hard and soft impact. In special design this door type also meets the requirements of stress group E. ➤ Chapter 2.13





Wet Room qualities

Regulations and requirements

Wet Room Doors

The test for Wet Room Doors consists of cyclic sprinkling of the opening surface of the door leaf and takes place in a special test stand. Each of the 48 test cycles consist of 4 minutes spraying with "warm" water and 26 minutes of drying. After the test the door leaf is examined for effects on the general planarity, the water absortion and the moisture expansion as well as any visually detectable damages.

The use of Wet Room Door sets type $3\ N\ /\ 4\ N$ is recommended for internal rooms and areas with an extremly high humidity. Damp and wet rooms are for example, sanitary facilities, shower rooms, sauna areas and indoor swimming pools, sports halls, used in hospitals and hotels.

The door leaf construction (filling, edges and top layer) of Wet Room Doors does not consist of wood or wooden materials, but always of moisture-resistant materials. As top layer only HPL sheets are used, because veneer would macerate due to hygroscopicity and therefore rip open the finish.

Function and installation

The Wet Room Door as well as the fittings must have wet room qualities, therefore a stainless steel frame, stainless steel hinges as well as a special lock with corrosion protection are recommended. A vision panel with plastic material glazing beads is possible as well.





Heavy-duty Solid Core Doors

CE marking

Fit for Europe!

The product standard **DIN EN 14351-2** "Internal doors without characteristics regarding Fire-Protection- and/or Smoke-Protection" is expected to be published at the end of 2011. From this point in time CE marking is possible and after a transitional period of approximately two years mandatory.

2.10

Normative regulated performance characteristics

For the product standard **DIN EN 14351-2** the following performance characteristics are called mandatory characteristics. If they match the specifications of the standard, the structural element is deemed suitable for the designated use. These characteristics need to be stated in the CE conformity certificate, except when the characteristic is not necessary under national regulations or it does not apply to the product (e.g. "shock resistance" not for solid door). If no classification for the necessary characteristics can be given (e.g. because no testing has been done) the classification has to be labeled "npd" (no performance determined).

The mandatory performance characteristics for windows and internal doors are:

- Dangerous substances
- Shock resistance
- Height and width
- Release ability
- · Load capacity of safety equipment
- Sound-Insulation
- Heat permeability coefficient
- · Air permeability

Declarations of further performance characteristics may be necessary under national regulations or other EN standards or can also be declared on a voluntary basis.

Until the complete adoption of the new European standards and their integration into national building regulations, all parties on a building project need to inform themselves about the current classification system.

In the area of standards for doors and glazings, Schörghuber is a competent contact regarding the new European standards!

Ask our sales team, we are happy to inform and help you!





Multiple functions

Heavy-duty Solid Core Doors

Regulations and requirements

Doors for internal areas

The minimum requirements for rebated and unrebated doors (flush doors) for internal areas are regulated by DIN 68706.

Exceptions are functional doors for special requirements e.g. Fire- and Smoke-Protection-Doors. According to DIN 68706 a door for internal areas is a plane door leaf, which is mostly made of wood or wooden materials. The door leaf consists of a special plywood frame, intermediate layer, cover plate and the top layer.

Configuration and construction (Standard dimensions, vision panel size and position, material quality and range) requirements and functions of interior doors are described in this norm. Door leaf dimensions, hinge and lock positions as well as their dimensional dependence on each other according to DIN 18101 (doors for domestic buildings).

According to their ability to resist diverse climates (differences in temperature and/or humidity on either side of the door), interior doors, made of wood or wooden materials, are divided into three climate categories.

Function

The Schörghuber heavy-duty interior door types 3 N and 4 N with solid core are approved for climate category II (Temperature differences up to 10 °C, humidity differences of up to 35 %), to ensure perfect functionality even under difficult climate conditions.

Due to a door leaf thickness of 50 mm the climate sturdiness as well as the Sound-Insulation are improved. Additionally the doors meet the requirements for the stress group S and E classifications. In contrast to the standard rebate depth of 25,5 mm, the rebate depth of 35 mm provided by Schörghuber allows a better lock position.

Veneered door leaf surfaces are transparently coated by Schörghuber. The acrylic lacquers used result in a very durable surface, required for heavy-duty doors. ➤ Chapter 6.1





2.11

Climate categories acc. to DIN EN 1121

Requirements and test procedures

Climate categories

According to their ability to resist diverse climates, wooden or wooden material interior doors are divided into different climate categories, in order to match the the door leaf and the demanded requirements.

The door leaf can withstand the strains of **different climates** on either side. (temperature/humidity).

The Schörghuber test norm is based on the current norms DIN EN 1121 and DIN EN 12219. Three door leafs with dimensions of approximately 1000 x 2000 mm are exposed to an exactly defined test climate (according to DIN EN 1121) over a period of up to 28 days. In accordance with DIN EN 12219, class 2, the door leaf must not exceed a deformation level of 4,0 mm. A deformation in this range does not interfere with the door's functionality or usability.

Climate categories according to	DIN EN 1121					
Schörghuber	Test climate	Temperature differences (C°)		Humidity differences (%)		
I	а	18 ± 2	23 ± 2	50 ± 5	30 ±5	
II	b	13 ±2	23 ± 2	65 ± 5	30 ± 5	
III	С	3 ± 2	23 ± 2	85 ±5	30 ± 5	
IV	d	- 15 ± 2	23 ± 2	no requirements	30 ± 5	

Climate category II

In general climate category II is recommended for rooms with high humidity over a long period of time, for example:

- Heated apartments
- Rooms across from heated hallways and stairways.

All Schörghuber doors are by default approved for climate category II.

Climate category III

Door sets with climate category III are recommended for rooms with high humidity and temperature changes and differences, for example:

- Apartment doors accross from unheated hallways respectively stairways
- Doors in public buildings
- Interior doors to garages
- Interior doors to uninsulated attics
- Basement doors

The door types 16 N/26 N are by default approved for climate category III.

By optional measures all door types, except the T 30 solid wood framed door and the Radiation-Protection-Door, meet the requirements of climate category III.

Climate category IV

The climate category IV is especially designed for doors under extreme climate conditions.

- Doors for external use, for locations not directly exposed to weather.
- External doors

Door type 35 N fulfils these very high requirements.





Multiple functions

External areas

Regulations and requirements

Fit for Europe!

The **DIN EN 14351-1** is the product standard for "Windows and external doors without characteristics regarding Fire-Protection and/or Smoke-Protection". From 01.02.2010 these structural elements have to be CE labeled. The performance characteristics need to be stated taking into consideration the relevant national regulations (e.g. EnEV) and the product standards.

Windows and doors with characteristics regarding Fire-Protection and/or Smoke-Protection are regulated differently and therfore do not fall under this standard. ➡ Chapter 2.2 – 2.4

Energy Saving Ordinance (EnEV) 2009

The EnEV is part of German construction law. In 2002 for instance it replaced the Heat Insulation Ordinance and will progressively be restructured and tightened. Currently, the 2009 issue is valid. The building sector has a share of over 40% of the overall energy consumption in Europe, therefore there is a high and absolute potential for energy saving. The European Commission has set an annual energy saving target of overall 20 % overall by 2020. In Germany, besides other factors, this goal is to be reached by renewing and tightening the EnEV.

The EnEV demands the classification of the **heat throughput coefficient**, the **radiation characteristics** and the **air permeability** for windows and external doors. For these characteristics minimum requirements have been set, the structural elements values are needed for the calculation of heat loss over the building shell.

Normative regulated performance characteristics

In the product standard **DIN EN 14351-1** the following performance characteristics are called mandatory characteristics, if they match the specifications of the standard the structural element is deemed suitable for its designated use. These characteristics need to be stated in the CE conformity certificate, except when the characteristic is not necessary under national regulations or it does not apply to the product (e.g. "shock resistance" not for solid door). If no classification for the necessary characteristics can be given (e.g. because no testing has been done) the classification has to be labeled "npd" (no performance determined).

The mandatory performance characteristics for windows and external doors are:

- Driving rain resistance
- Dangerous substances
- Resistance against wind load
- Shock resistance
- Height and width
- Release ability
- Load capacity of safety equipment
- · Operating forces
- Sound-Insulation
- · Heat permeability coefficient
- Air permeability

Declarations of further performance characteristics may be necessary under national regulations (e.g. EnEV, DIN 18055) or other EN standards or can also be declared on a voluntary basis.

Driving rain resistance

During a test according to DIN EN 1027 the test object is acted upon under pressure, to simulate the wind load. Then the test object is sprayed with water and checked for leakages. There are two different procedures for protected and unprotected external areas. Classification is carried out according to DIN EN 12208, according to the relevant procedure and maximum test pressure with the classes 1A-5A and 1B-5B. 1 is the lowest test pressure and A signifies the unprotected external areas.

Classification for the precise application according to DIN 1055-4 and DIN 18055 arise from the consideration of different aspects, for example the location, the height and the orientation of the building.





External areas

Regulations and requirements

Dangerous substances

→ Chapter 2.2

Resistance against wind load

During testing according to DIN EN 12211 the test object is subjected to positive and negative air pressures of a maximum of 3000 Pa in varying load times and load cycles. Marked is the bowing of the test object according to the load. Additionally the **air permeability** is not allowed to exceed a maximum of 20% according to the classified benchmark set for the test. According to the maximum tolerable test pressure and the bowing under load of the door set a classification according to DIN EN 12210 from class A1 to C5 is given. Class A1 fulfills the lowest requiremnts.

2.12

Classification for the precise application according to DIN 1055-4 and DIN 18055 arises from the consideration of different aspects, for example the location, the height and the orientation of the building.

Shock resistance

→ Chapter 2.2

Height and width

The clear opening has to be stated. This measure can be constrained by projecting hardware or the swing angle of the door leaf. > Chapter 3

Release ability (mandatory)

Door elements for the use of escape and rescue paths with escape exits and anti-panic closures, according to DIN EN 179 or DIN EN 1125 the release ability has to be declared with the statement of the according standard. \Longrightarrow Chapter 13

Load capacity of safety equipment

→ Chapter 2.2

Operating forces

→ Chapter 2.2

Sound-Insulation

The door sets evaluated Sound-Insulation value Rw according to a test conducted in accordance with DIN EN ISO 140 in a laboratory, with the spectral adjustment values (C; C_{tr}) according to DIN EN 717-1 has to be stated e.g. Rw = 32 dB (-1; -2). \Longrightarrow Chapter 2.5

Heat permeability coefficient

According to EnEV the overall energy economy of a building is, besides the systems engineering, based on the structural heat insulation (walls, windows, doors etc.). Therefore the heat loss in comparison to the building volume is evaluated. For the calculation the heat permeability coefficients of all structural elements of the building shell according to the acknowledged technical rules (e.g. DIN standards) have to be stated. The EnEV sets the threshold value for heat loss over the complete building shell as well as the heat permeability coefficient of the structural elements. In the calculation of the standard for the heat permeability coefficient for windows and doors DIN EN ISO 10077-1 the u value for windows is marked with the index 'W' and for doors with the index 'D'.

The threshold value for the heat permeability coefficient U_W for **French doors and windows** is set to 1,3 W/m²K for new builds as well as for refurbishments. The threshold value for French doors and windows with additional functions (Fire-Protection, Sound-Insulation, Burglar-Protection etc.) is set to 2,0 W/m²K.

Due to the relatively small percentage of the building shell area which **external doors** usually comprise in new builds no threshold value for the heat permeability coefficient U_D has been set. The value for refurbishments is set to 2,9 W/m2K.



Schörghuber



Multiple functions

External areas

Regulations and requirements

Air permeability

According to EnEV buildings have to be constructed in a way that the building shell including all joints, has to be longterm air tight sealed. Air permeability is tested according to DIN EN 1026 and classified according to DIN EN 12207. This standard defines the reference air permeability Q_{100} as the air permeability of the door set at 100 Pa air pressure difference (reference presure) with regards to the door set area or the joint length per hour. The classification is grouped into classes 1 – 4. For class 1 no requirement is set for the joint permeability.

For French doors and windows according to EnEV a classification of class 2 for buildings with a maximum of two storeys and a of class 3 for buildings with a more than two storeys is mandatory.

For doors in external areas the requiremnts of the EnEV are fulfilled with a classification according to DIN EN 12207, of class 2.

Continuous-operational testing

→ Chapter 2.2

Radiation characteristics

The overall energy permeability factor 'g' is measured and stated according to DIN EN 410. It describes the difference, in percent, between the energy hitting the glass pane and the energy which escapes. This characteristic is not mandatory but is necessary for the verification procedure according to EnEV.

The luminous transmission index is measured and stated according to DIN EN 410.

Ventilation

→ Chapter 2.2

Bullet resistance

→ Chapter 2.8

Continuous-operational testing

→ Chapter 2.2

Explosive effect restrained

→ Chapter 2.2

Behaviour under different climates

⇒ Chapter 2.11

Burglar-Protection

⇒ Chapter 2.6



Mooden special doors

Multiple functions

External areas

Performance characteristics

For use in external areas the Schörghuber door types 35N and 25N as well as the movable glazing (window), model 25V-DA are suitable. ➤ Chapter 9

Performance characteristics according to DIN EN 14351-1

Door / glazing type:		35N	25N	25V-DA
1. Resistance against wind load	Test pressure	5	5	5
2. Resistance against wind load	Frame bowing under load	С	С	С
3. Driving rain resistance	Unprotected	npd	9A	9A
4. Driving rain resistance	Protected	npd	7B	7B
5.Dangerous substances		None	None	None
6. Shock resistance	Falling height **	950	950	950
7. Load capacity of safety equipment	npd	npd	npd	
8. Height x Width		x mm	x mm	x mm
9. Release ability	DIN EN 179 / 1125	Yes	Yes	No
10. Sound-Insulation	R _w max. **	42	42	42
11. Heat permeability coefficient	U _D / U _W **	1,3	1,3	1,3
12. Radiation characteristics	g *	X	Х	x
13. Luminous transmission index	T _V *	X	Х	Х
14. Air permeability	Class	3	4	4
15. Operating forces	Class	2	2	2
16. Mechanical sturdiness	Class	4	4	4
17. Ventilation		npd	npd	npd
18. Bullet resistance		npd	npd	npd
19. Explosive effect restrained	Shock tube	npd	npd	npd
20. Explosive effect restrained	Outdoor test	npd	npd	npd
21. Continuous-operational testing	Class	6	6	3
22. Behaviour under different climates	Class	2(e)	2(e)	2(e)
23. Burglar-Protection	Resistance class **	2/3	2/3	2/3

^{*)} Depending on the glass quality



^{**)} Depending on the design respectively the glass quality



Multiple functions

Stress groups

Application area

The mechanical stress suffered by interior doors results from external influences, such as soft impacts, hard impacts, static deformations and vertical stress. According to the Schörghuber standard (on the basis of DIN EN 1192) and the type of stress, Schörghuber door sets are divided in four mechanical stress groups™:

Stress group	DIN EN 1192				
according to Schörghuber	DIN EN1192	Vertical stress	Static deformation	Soft impact	Hard impact
N	1	400 N	200 N	25 J	1,5 J
М	2	600 N	250 N	50 J	3,0 J
S	3	800 N	300 N	100 J	5,0 J
E	4	1000 N	350 N	150 J	8,0 J

Stress group N

Normal stress e.g.

Interior apartment doors

Stress group M

Medium stress e.g.

- Offices
- Other commercially used rooms

Stress group S

High stress, e.g.

- Barracks
- Hotels
- Kindergartens
- Schools
- Hospitals

Stress group E

Extreme stress, same as group S, but with abrasive use.

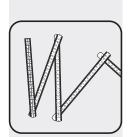
Test criteria

Interior doors are tested in order to determine their mechanical durability

Static deformation according to DIN EN 947
 Dynamic deformation according to DIN EN 948
 Soft impact according to DIN EN 949
 Hard impact according to DIN EN 950

Schörghuber special doors by default meet the requirements for **stress group S**, with the exception of the solid wood framed door, which is due to its large glass area not being intended for this test.



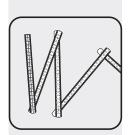


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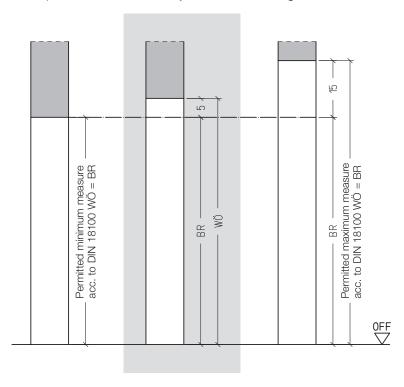
General measurement correlation

Wall openings according to DIN 18100

Wall openings are subject to tolerances. Therefore an imaginary measure for structural elements, the basic dimension, was introduced. The resulting dependencies are regulated in DIN 18100 (wall opening for doors).

Wall openings are ideal if they exceed the basic dimension about 10 mm (2 x 5 mm) in width and 5 mm in height.

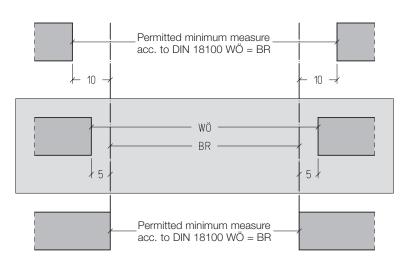
The construction joint, which results from the tolerances between wall opening and frame has to be bridged at installation. Especially at doors with Fire- and Smoke-Protection function as well as doors with Sound-Insulation function the joint can alter the door function. Therefore the maximum permitted construction joint size for Schörghuber Fire-Protection-Doors is 10 ^{+ 20}/_{- 4} mm.



Ideal dimension: BR-Height + 5 mm

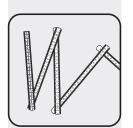
Example:

Wall opening Basic dimension WÖ 885 x 2005 mm (B x H) BR 875 x 2000 mm (B x H)









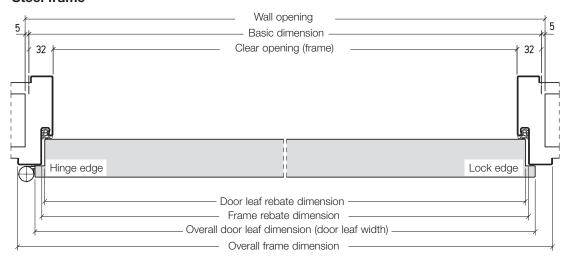
General measurement correlation

Measurements according to DIN 18101 and DIN 18111

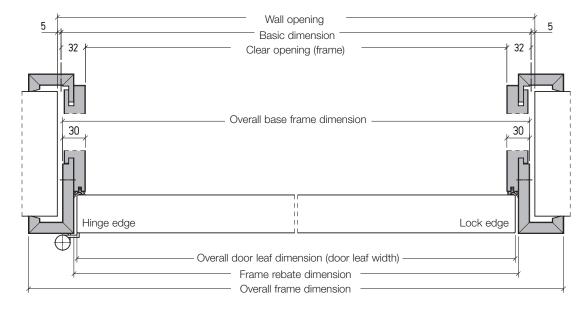
Wall openings according to DIN 18100 in combination with the installation of steel wrap-around frames, quirk frames (32/20 + quirk), steel corner frames and wooden wrap-around frames result in clear openings and door leaf dimensions according to DIN 18101 and DIN 18111. In order to get standard door leaf dimensions with nonstandard frames (face expansions, steel block frames, wooden block frames and solid wooden frames etc.) the wall openings need to be planed accordingly.

If wall openings are constructed according to DIN 18100, the installation of doors and frames, which have been produced according to the norm, should be possible without any problems.

Steel frame

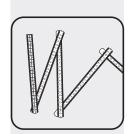


Wooden frame







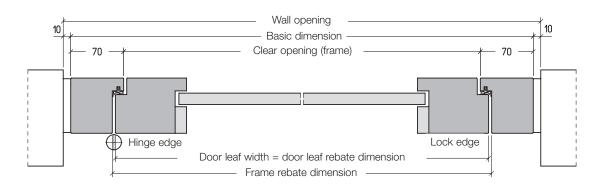


General measurement correlation

Measurements according to DIN 18101 and DIN 18111

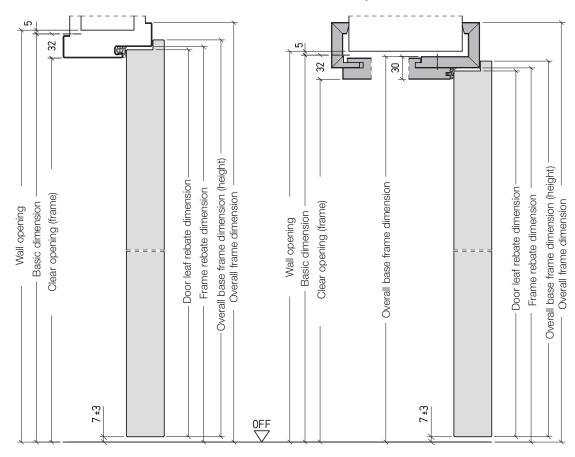
Solid wooden block frame

In combination with solid wood framed door



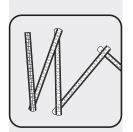
Steel frame

Wooden wrap-around frame



The label OFF indicates the nominal position of the surface of the finished floor, as for example the surface of a floor covering (carpet, flagging etc.) above screed and slab.





General measurement correlation

Overview of 1- and 2-leaf doors

Measurement correlation for steel wrap-around frames and wooden wrap-around frames

1-leaf doors width

wö	WÖ - 10 mm BR	BR - 34 mm ZFM	BR - 64 mm LD	LD + 48 mm TAB (F)	LD + 22 mm TAB (S)
635	625	591	561	609	583
760	750	716	686	734	708
885	875	841	811	859	833
1010	1000	966	936	984	958
1135	1125	1091	1061	1109	1083
1260	1250	1216	1186	1234	1208
1385	1375	1341	1311	1359	1333
1510	1500	1466	1436	1484	1458

Due to the joint clearance of 4 mm (instead of 3,5 mm according to DIN 68706) between door leaf and frame, the door leaf width of Schörghuber doors is 1 mm less than the norm.

2-leaf doors, width, coaxial partition

wö	WÖ - 10 mm BR	BR - 34 mm ZFM	BR - 64 mm LD	LD + 55 mm TAB (F)	LD + 29 mm TAB (S)
1260	1250	1216	1186	621	608
1385	1375	1341	1311	683	670
1510	1500	1466	1436	746	733
1760	1750	1716	1686	871	858
2010	2000	1966	1936	996	983
2260	2250	2216	2186	1121	1108
2510	2500	2466	2436	1246	1233
2760	2750	2716	2686	1370	1357
3010	3000	2966	2936	1495	1482

The meeting stiles of the 2-leaf door types 4 N, 14 N and 24 N are rebated and equipped with a rabbet ledge. For the types 6 N, 26 N, 20 N and 27 N the meeting stiles are double-rebated: TAB (F) = LD + 68 mm, respectively TAB (S) = LD + 42 mm

Height

wö	WÖ - 5 mm BR	BR - 17 mm ZFM	BR - 32 mm LD	LD + 17 mm TAH (F)	LD + 4 mm TAH (S)
1755	1750	1733	1718	1735	1722
2005	2000	1983	1968	1985	1972
2130	2125	2108	2093	2110	2097
2255	2250	2233	2218	2235	2222
2505	2500	2483	2468	2485	2472
2755	2750	2733	2718	2735	2722
3005	3000	2983	2968	2985	2972
3505	3500	3483	3468	3485	3472
3755	3750	3733	3718	3735	3722



WÖ = Wall opening

TAB = Door leaf overall width

(F) = Rebated

BR = Basic dimension

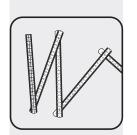
LD = Clear passage

TAH = Door leaf overall height

(S) = Unrebated or unrebated with jamb rebate





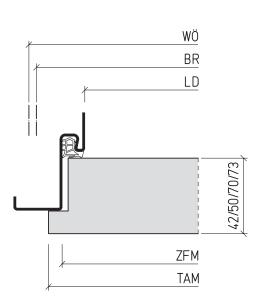


Rebated

1-leaf door

Unrebated or unrebated with jamb rebate Single rebated frame

Measurement correlations

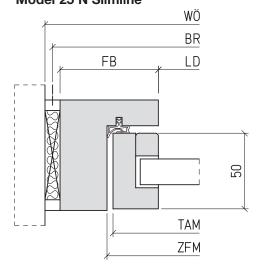


WÖ BR LD
42/50/70/73
ZFM TAM

Width	Height
BR = WÖ - 10	$BR = W\ddot{O} - 5$
LD = BR - 64	LD = BR - 32
ZFM = BR - 34	ZFM = BR - 17
TAB = LD + 22	TAH = LD + 4

Width	Height
BR = WÖ - 10	BR = WÖ - 5
LD = BR - 64	LD = BR - 32
ZFM = BR - 34	ZFM = BR - 17
TAB = LD + 48	TAH = LD + 17

Model 25 N Slimline



Width $BR = W\ddot{O} - 10$ $LD = BR - 10 - 2 \times FB$ ZFM = LD + 68TAB = LD + 60

Height

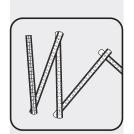
 $BR = W\ddot{O} - 5$ LD = BR - 15 - FBZFM = LD + 34TAH = LD + 23

Due to the joint clearance of 4 mm (instead of 3,5 mm according to DIN 68706) between door leaf and frame, the door leaf width of Schörghuber doors is 1 mm less than standard.

> WÖ = Wall opening BR = Basic dimension LD = Clear passage TAB = Door leaf overall width

TAH = Door leaf overall height





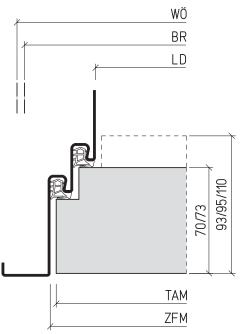
Measurement correlations

Measurement correlations

Steel wrap-around frames and wooden wrap-around frames

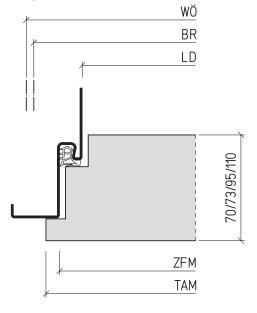
Unrebated with jamb rebate

Double-rebated frame



Double-rebat	ted
--------------	-----

Single rebated frame



Width	Height
BR = WÖ - 10	BR = WÖ - 5
LD = BR - 94	LD = BR - 47
ZFM = BR - 34	ZFM = BR - 17
TAR = ID + 52	TAH = ID + 19

Width	Height
BR = WÖ - 10	BR = WÖ - 5
LD = BR - 64	LD = BR - 32
ZFM = BR - 34	ZFM = BR - 17
TAR - ID + 48	TAH - ID + 17

Height

 $BR = W\ddot{O} - 5$

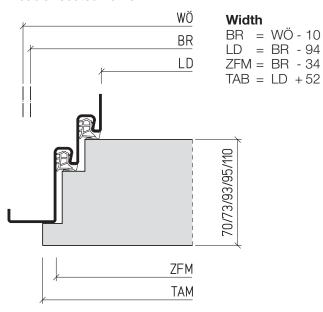
LD = BR - 47

ZFM = BR - 17

TAH = LD + 32

Double-rebated

Double-rebated frame



FORM®

Schörghuber

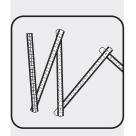
Due to the joint clearance of 4 mm (instead of 3,5 mm according to DIN 68706) between door leaf and frame, the door leaf width of Schörghuber doors is 1 mm less than the norm.

WÖ = Wall opening

BR = Basic dimension

LD = Clear passage

TAB = Door leaf overall width TAH = Door leaf overall height



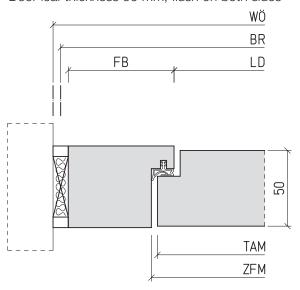
32

Measurement correlations

1-leaf door sets

Unrebated with jamb rebate

Door leaf thickness 50 mm, flush on both sides



Width

 $BR = W\ddot{O} - 10$

 $LD = BR - 10 - 2 \times FB$

ZFM = LD + 30

TAB = LD + 22

Width

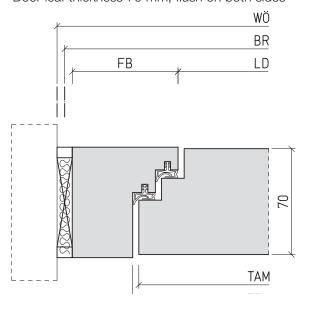
 $BR = W\ddot{O} - 5$ LD = BR - 5 - FB

ZFM = LD + 15

TAH = LD + 4

Unrebated with double jamb rebate

Door leaf thickness 70 mm, flush on both sides



Width

 $BR = W\ddot{O} - 10$

 $LD = BR - 10 - 2 \times FB$

ZFM = LD + 60

TAB = LD + 52

Width

 $BR = W\ddot{O} - 5$

LD = BR - 5 - FB

ZFM = LD + 30

TAH = LD + 19

Due to the joint clearance of 4 mm (instead of 3,5 mm according to DIN 68706) between door leaf and frame, the door leaf width of Schörghuber doors is 1 mm less than standard.

WÖ = Wall opening

BR = Basic dimension

LD = Clear passage

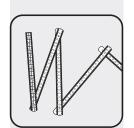
TAB = Door leaf overall width

TAH = Door leaf overall height

SF = Inactive leaf

GF = Active leaf



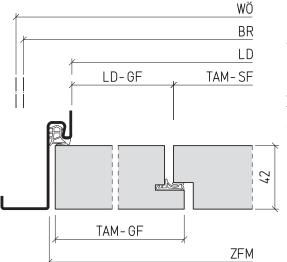


Measurement correlations

2-leaf door sets

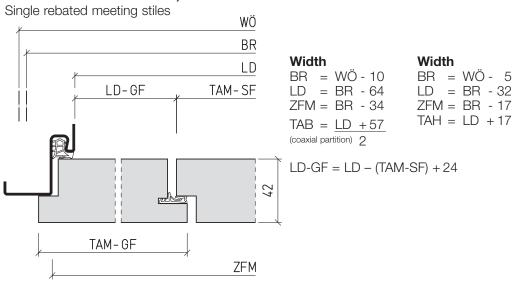
Door leaf thickness 42 mm, unrebated

Single rebated meeting stiles



Width BR = WÖ - 10 LD = BR - 64 ZFM = BR - 34 TAB = LD + 31 (coaxial partition) 2	Width BR = WÖ - 5 LD = BR - 32 ZFM = BR - 17 TAH = LD + 4
LD-GF = LD - (TAM-	SF) +11

Door leaf thickness 42 mm, rebated



Besides the minimum and maximum dimensions of the clear passage, the dimension limit values of the active and inactive leaf for 2-leaf door sets must be taken into account during the planning process. When designing the inactive leaf the type and the dimensions of the door closer must be considered.

Туре	LD-Width	TAB-GF	TAB-SF
2 N	811-2186	515-1221	300-1221

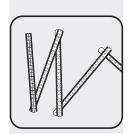
WÖ = Wall opening BR = Basic dimension

LD = Clear passage TAB = Door leaf overall width

TAH = Door leaf overall width
TAH = Door leaf overall height





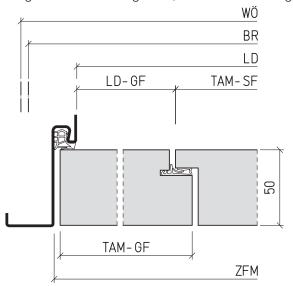


Measurement correlations

2-leaf door sets

T30, door leaf thickness 50 mm, unrebated

Single rebated meeting stiles, without rabbet ledge

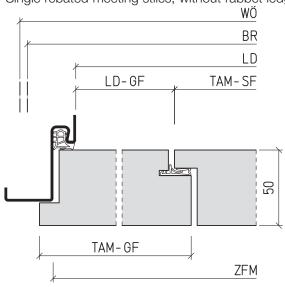


Width	Width
BR = WÖ - 10	BR = WÖ - 5
LD = BR - 64	LD = BR - 32
ZFM = BR - 34	ZFM = BR - 17
TAB = LD + 31	TAH = LD + 4
(coaxial partition) 2	

LD-GF = LD - (TAM-SF) + 11

T30, door leaf thickness 50 mm, rebated

Single rebated meeting stiles, without rabbet ledge



Width	Width
BR = WÖ - 10	$BR = W\ddot{O} - 5$
LD = BR - 64	LD = BR - 32
ZFM = BR - 34	ZFM = BR - 17
TAB = LD + 57	TAH = LD + 17
(coaxial partition) 2	

LD-GF = LD - (TAM-SF) + 24

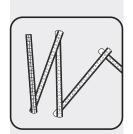
Fire-Protection-Doors with door leaf thickness 50 mm (Type 4N, 14N) are available without a rabbet ledge up to a size of LD 2186 x 2468 (BR 2250 x 2500 mm). The bolting of the inactive leaf is achieved through a shotbolt lock. The door sets can be equipped with partial anti-panic function on the active leaf.

Besides the minimum and maximum dimensions of the clear passage, the dimension limit values of the active and inactive leaf for 2-leaf door sets must be taken into account during the planning process. When designing the inactive leaf the type and the dimensions of the door closer must be considered.



Туре	LD-Width	TAB-GF	TAB-SF
4 N	1186-2186	515-1108	300-1096
14 N	1186-2186	515-1108	300-1096

WÖ = Wall opening BR = Basic dimension LD = Clear passage TAB = Door leaf overall width TAH = Door leaf overall height SF = Inactive leaf GF = Active leaf

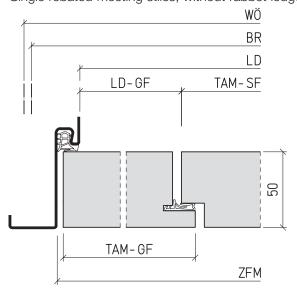


Measurement correlations

2-leaf door sets

Door leaf thickness 50 mm, unrebated

Single rebated meeting stiles, without rabbet ledge

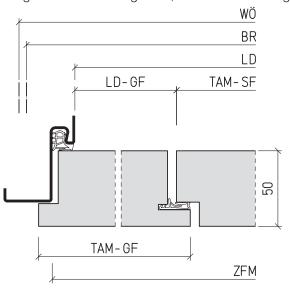


Width	Width
BR = WÖ - 10	$BR = W\ddot{O} - 5$
LD = BR - 64	LD = BR - 32
ZFM = BR - 34	ZFM = BR - 17
TAB = LD + 31	TAH = LD + 4
(coaxial partition) 2	

LD-GF = LD - (TAM-SF) + 11

Door leaf thickness 50 mm, rebated

Single rebated meeting stiles, without rabbet ledge



Width	Width
BR = WÖ - 10	BR = WÖ - 5
LD = BR - 64	LD = BR - 32
ZFM = BR - 34	ZFM = BR - 17
TAB = LD + 57	TAH = LD + 17
(coaxial partition) 2	

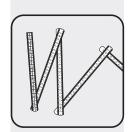
LD-GF = LD - (TAM-SF) + 24

Besides the minimum and maximum dimensions of the clear passage, the dimension limit values of the active and inactive leaf for 2-leaf door sets must be taken into account during the planning process. When designing the inactive leaf the type and the dimensions of the door closer must be considered.



LD-Width	TAB-GF	TAB-SF
1186-2686	515-1366	300-1351
1186-2436	515-1300	300-1193
1186-2686	515-1366	300-1351
	1186-2686 1186-2436	1186-2686 515-1366 1186-2436 515-1300

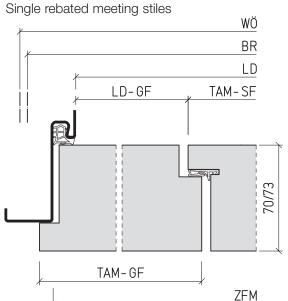
WÖ = Wall opening
BR = Basic dimension
LD = Clear passage
TAB = Door leaf overall width
TAH = Door leaf overall height
SF = Inactive leaf
GF = Active leaf



Measurement correlations

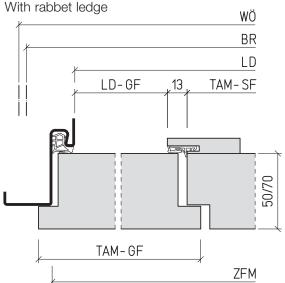
2-leaf door sets

Single rebated



Width	Height
BR = WÖ - 10	BR = WÖ - 5
LD = BR - 64	LD = BR - 32
ZFM = BR - 34	ZFM = BR - 17
TAB = LD + 57	TAH = LD + 17
(coaxial partition) 2	

LD-GF = LD - (TAM-SF) + 24



Width Height $BR = W\ddot{O} - 10$ $BR = W\ddot{O} - 5$ LD = BR - 64LD = BR - 32ZFM = BR - 34ZFM = BR - 17TAH = LD + 17TAB = LD + 57(coaxial partition) 2

LD-GF = LD - (TAM-SF) + 11

With surface-mounted door closer ≤ 390 mm a spring hinge is required,

not for Smoke-Protection-Function (door coordination via integrated IS triggering roll)

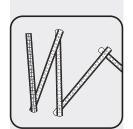
With floor-mounted door closer

≤ 445 mm a spring hinge is required, not for Smoke-Protection-Function (door coordination via SR 392)

Besides the minimum and maximum dimensions of the clear passage, the dimension limit values according to the approval and test certificate of the active and inactive leaf for 2-leaf Fire- and Smoke-Protection-Doors must be taken into account during the planning process. When designing the inactive leaf the type and the dimensions of the door closer must be considered.

Type 6 N (37 dB) 26 N 27 N 4 N	LD-Width 1311-2936 1311-2936 1311-2936 1186-2686	TAB-GF 713-1484 713-1484 713-1484 528-1379	TAB-SF 528-1504 528-1504 528-1504 313-1364	WÖ = Wall opening BR = Basic dimension LD = Clear passage TAB = Door leaf overall width TAH = Door leaf overall height SF = Inactive leaf
24 N	1186-2936	528-1504	513-1489	GF = Active leaf



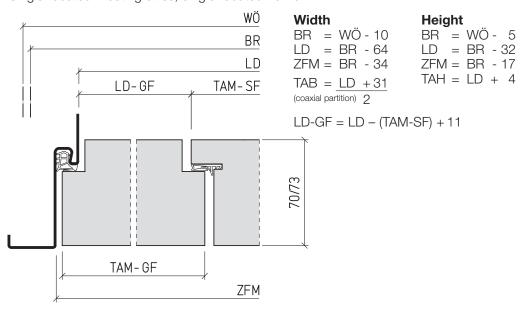


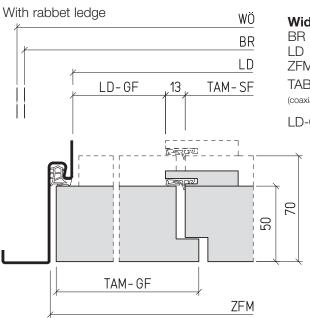
Measurement correlations

2-leaf door sets

Unrebated or unrebated with jamb rebate

Single rebated meeting stiles, single rebated frame





Width	Height
BR = WÖ - 10	$BR = W\ddot{O} - 5$
LD = BR - 64	LD = BR - 32
ZFM = BR - 34	ZFM = BR - 17
TAB = LD + 31 (coaxial partition) 2	TAH = LD + 4
LD- $GF = LD - (TAM-$	SF) - 2

With surface-mounted door closer

≤ 390 mm a spring hinge is required, not for Smoke-Protection-Function (door coordination via integrated IS triggering roll)

With floor-mounted door closer ≤ 445 mm a spring hinge is required, not for Smoke-Protection-Function (door coordination via SR 392)

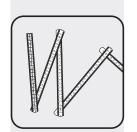
Besides the minimum and maximum dimensions of the clear passage, the dimension limit values according to the approval and test certificate of the active and inactive leaf for 2-leaf Fire- and Smoke-Protection-Doors must be taken into account during the planning process. When designing the inactive leaf the type and the dimensions of the door closer must be

Туре	LD-Width	TAB-GF	TAB-SF	WÖ = Wall opening
6 N (37 dB)	1311-2936	700-1476	515-1491	BR = Basic dimension
26 N	1311-2936	700-1476	515-1491	LD = Clear passage
27 N	1311-2936	700-1476	515-1491	TAB = Door leaf overall width TAH = Door leaf overall height
4 N	1186-2686	515-1366	300-1351	SF = Inactive leaf
24 N	1186-2936	515-1491	500-1476	GF = Active leaf



considered.



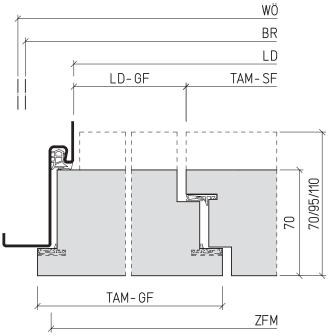


Measurement correlations

2-leaf door sets

Single rebated or double rebated

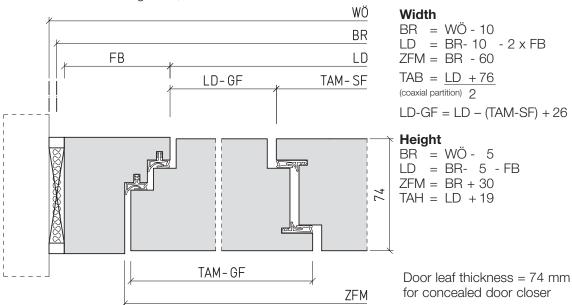
Double-rebated meeting stiles, single rebated frame



Width Height $BR = W\ddot{O} - 10$ $BR = W\ddot{O} - 5$ LD = BR - 64LD = BR - 32ZFM = BR - 34ZFM = BR - 17TAH = LD + 17TAB = LD + 72(coaxial partition) 2 LD-GF = LD - (TAM-SF) + 24

Unrebated with double jamb rebate

Double-rebated meeting stiles, double rebated frame



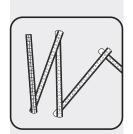
Besides the minimum and maximum dimensions of the clear passage, the dimension limit values according to the approval and test certificate of the active and inactive leaf for 2-leaf Fire- and Smoke-Protection-Doors must be taken into account during the planning process.

When designing the inactive leaf the type and the dimensions of the door closer must be considered. WÖ = Wall opening



Туре	LD-Width	TAB-GF	TAB-SF
6 N (42 dB)	1311-2936	728-1504	528-1504
27 N (95 mm)	1311-2936	728-1504	528-1504
20 N	1311-2936	728-1504	528-1504

BR = Basic dimension LD = Clear passage TAB = Door leaf overall width TAH = Door leaf overall height SF = Inactive leaf GF = Active leaf

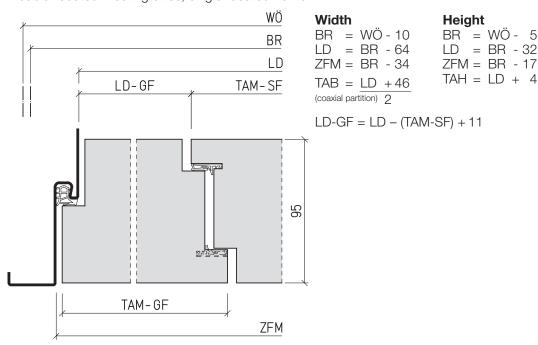


Measurement correlations

2-leaf door sets

Unrebated with jamb rebate

Double-rebated meeting stiles, single rebated frame

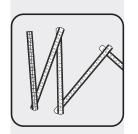


Besides the minimum and maximum dimensions of the clear passage, the dimension limit values according to the approval and test certificate of the active and inactive leaf for 2-leaf Fire- and Smoke-Protection-Doors must be taken into account during the planning process. When designing the inactive leaf the type and the dimensions of the door closer must be considered.

Type LD-Width TAB-GF TAB-SF 27 N (95 mm) 1311-2936 715-1491 515-1491



WÖ = Wall opening BR = Basic dimension LD = Clear passage TAB = Door leaf overall width TAH = Door leaf overall height



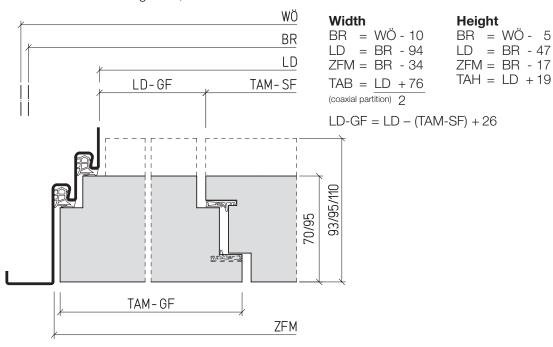
3_3

Measurement correlations

2-leaf door sets

Unrebated with jamb rebate or unrebated with double jamb rebate

Double-rebated meeting stiles, double-rebated frame



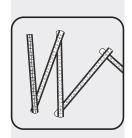
Besides the minimum and maximum dimensions of the clear passage, the dimension limit values according to the approval and test certificate of the active and inactive leaf for 2-leaf Fire- and Smoke-Protection-Doors must be taken into account during the planning process.

When designing the inactive leaf the type and the dimensions of the door closer must be considered.

Туре	LD-Width	TAB-GF	TAB-SF
6 N (42 dB)	1281-2906	715-1491	515-1491
27 N (95 mm)	1281-2906	715-1491	515-1491
20 N	1281-2906	715-1491	515-1491
80-2	1156-2906	515-1491	515-1491



WÖ = Wall opening
BR = Basic dimension
LD = Clear passage
TAB = Door leaf overall width
TAH = Door leaf overall height



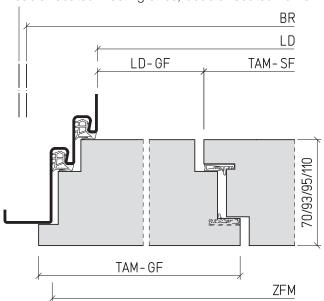
3.3

Measurement correlations

2-leaf door sets

Double-rebated

Double-rebated meeting stiles, double-rebated frame



LD-GF = LD - (TAM-SF) + 39

Besides the minimum and maximum dimensions of the clear passage, the dimension limit values according to the approval and test certificate of the active and inactive leaf for 2-leaf Fire- and Smoke-Protection-Doors must be taken into account during the planning process.

When designing the inactive leaf the type and the dimensions of the door closer must be considered.

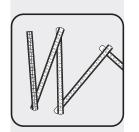
Type	LD-Width	TAB-GF	TAB-SF
6 N (42 dB)	1281-2906	728-1504	528-1504
27 N (95 mm)	1281-2906	728-1504	528-1504
20 N	1281-2906	728-1504	528-1504
50-2	1281-2906	725-1504	528-1504
80-2	1156-2906	528-1504	528-1504



WÖ = Wall opening BR = Basic dimension

LD = Clear passage TAB = Door leaf overall width

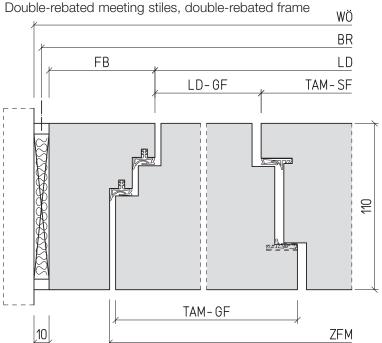
TAH = Door leaf overall height



Measurement correlations

2-leaf door sets

Unrebated with double jamb rebate



Width

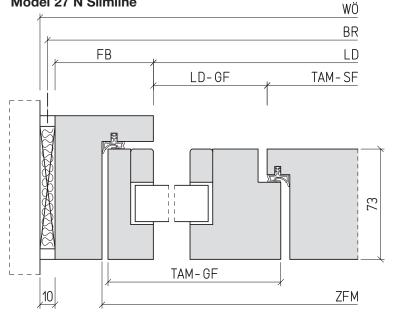
 $BR = W\ddot{O} - 10$ $LD = BR - 10 - 2 \times FB$ ZFM = LD + 60TAB = LD + 76(coaxial partition) 2

LD-GF = LD - (TAM-SF) + 26

Height

 $BR = W\ddot{O} - 5$ LD = BR - 5 - FBZFM = LD + 30TAH = ID + 19

Model 27 N Slimline



Width

 $BR = W\ddot{O} - 10$ $LD = BR - 10 - 2 \times FB$ ZFM = LD + 68TAB = LD + 69(coaxial partition) 2

LD-GF = LD - (TAM-SF) + 30

Height

 $BR = W\ddot{O} - 5$ LD = BR - 5 - FBZFM = LD + 34TAH = LD + 23

WÖ = Wall opening BR = Basic dimension LD = Clear passage TAB = Door leaf overall width

SF = Inactive leaf

GF = Active leaf

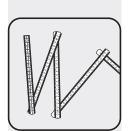
TAH = Door leaf overall height

Besides the minimum and maximum dimensions of the clear passage, the dimension limit values according to the approval and test certificate of the active and inactive leaf for 2-leaf Fire- and Smoke-Protection-Doors must be taken into account during the planning process. When designing the inactive leaf the type and the dimensions of the door closer must be

considered.

Type LD-Width TAB-GF **TAB-SF** 92 N 1281-2406 715-1287 515-1287 25 Slimline 1148-2398 700-1233 500-1233

Schörghuber



Dimensions

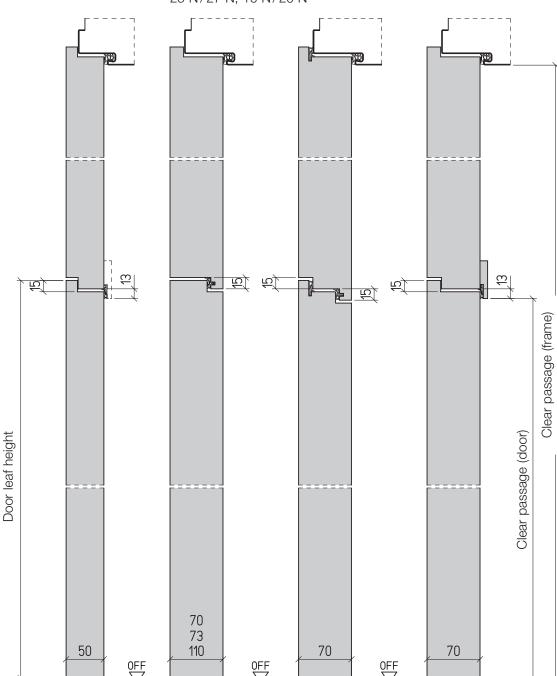
Door sets with top panel

Counter rebated top panel

Rebated, analogue for unrebated door leafs

3 N/4 N, 13 N/14 N

16 N/26 N, 5 N/ 6 N 25 N/27 N, 10 N/20 N 8 N/24 N

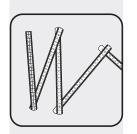


Door leaf thickness 50 mm with rabbet ledge for:

- 1-leaf door with integrated door closer
- 2-leaf door with T30 and with integrated door closer

In order to determine or tender 1- and 2-leaf door sets with top panel, the indication not only of the clear opening of the frame or of the basic dimension is necessary, but also the information about the door leaf height.





3.4

Door sets with top panel

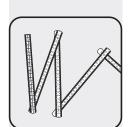
Top panel with transom

Rebated	Unrebated	Rebated	Unrebated with jamb rebate	Unrebated with double jamb rebate
3 N/ 4 N 13 N/14 N	3 N/ 4 N 13 N/14 N	16 N/26 N 5 N/ 6 N 25 N/27 N 8 N/24 N	16 N/26 N 5 N/ 6 N 25 N/27 N 8 N/24 N	10 N/20 N
oor leaf height				(transom) Clear passage (frame)
50 OFF	50 OFF	70 73	70 73 0FF	Clear passage (transom)



In order to determine or tender 1- and 2-leaf door sets with top panel, the indication not only of the clear opening of the frame or of the basic dimension is necessary, but also the information about the door leaf height.



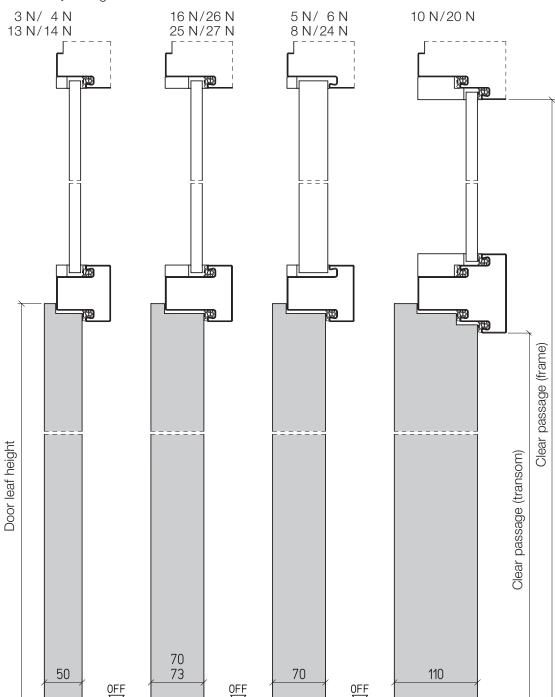


Dimensions

Door sets with top panel

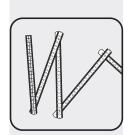
Fanlight with transom

Rebated, analogue for unrebated door leafs



In order to determine or tender 1- and 2-leaf door sets with top panel, the indication not only of the clear opening of the frame or of the basic dimension is necessary, but also the information about the door leaf height.





ns **3.5**

Aperture angle of doors

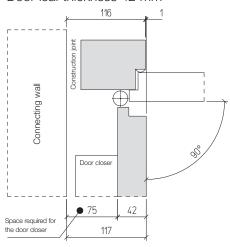
Required frame width for a 90° aperture angle

Surface-mounted door closer with hinges

Valid for all frame versions

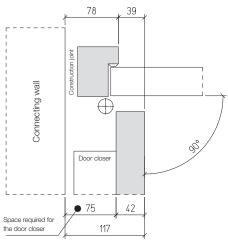
Rebated door leaf

Door leaf thickness 42 mm



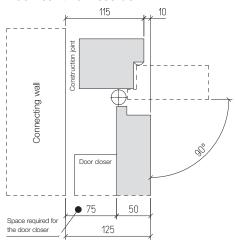
Unrebated door leaf

Door leaf thickness 42 mm



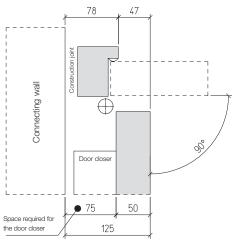
Rebated door leaf

Door leaf thickness 50 mm



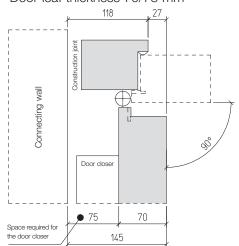
Unrebated door leaf

Door leaf thickness 50 mm



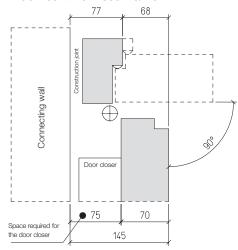
Rebated door leaf

Door leaf thickness 70/73 mm



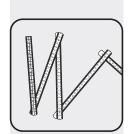
Unrebated door leaf

Door leaf thickness 70/73 mm





536



Aperture angle of doors

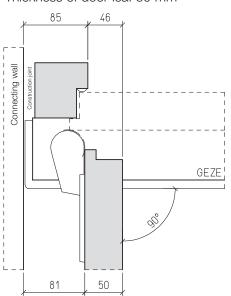
Required frame width for a 90° aperture angle

Floor-mounted door closer with pivot hinges

Valid for all frame versions

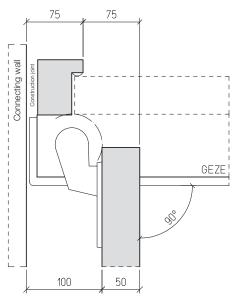
Rebated door leaf

Thickness of door leaf 50 mm



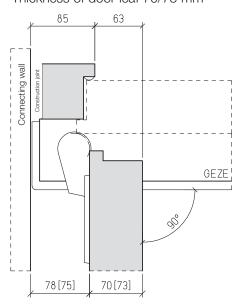
Unrebated door leaf

Thickness of door leaf 50 mm



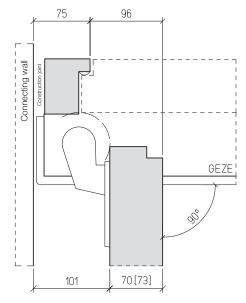
Rebated door leaf

Thickness of door leaf 70/73 mm



Unrebated door leaf

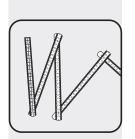
Thickness of door leaf 70/73 mm





Note:

Examples shown are with GEZE door closers. Allow 10 mm more space for DORMA door closers.



Dimensions

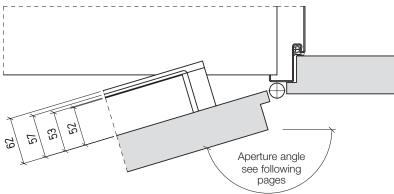
3.5

Aperture angle of doors

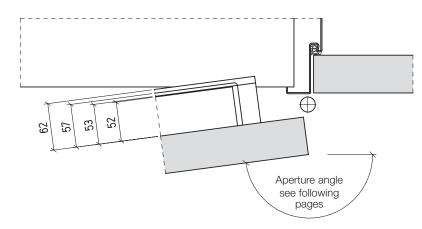
Surface-mounted and floor-mounted door closers

Surface-mounted door closer with hinges

Rebated door leaf



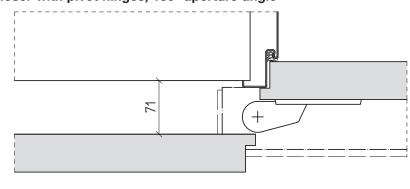
Unrebated door leaf



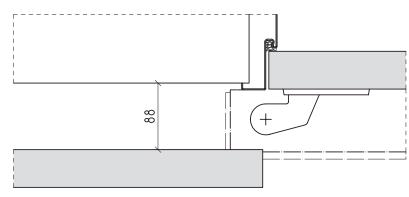
A door stop necessary!

Floor-mounted door closer with pivot hinges, 180° aperture angle

Rebated door leaf



Unrebated door leaf

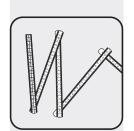




Note:

Allow enough space for handles!

3.5



Dimensions

Aperture angle of doors

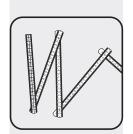
Steel wrap-around frames with VS-, VSX- or VX hinges

Installa- tion type	Door closer model	-	re angle Unrebated(S)	Figurative diagram
	GEZE TS 4000	160°	160°	
no n	GEZE TS 4500	160°	160°	
Standard installation on pull side	GEZE TS 5000 / 5500	160°	160°	
d installa pull side	DORMA TS 73	160°	160°	
ndard	DORMA TS 83	160°	160°	
Staı	DORMA TS 93	150°	160°	
	DORMA ITS 96	110°	110°	
	GEZE TS 4000 up to jamb depth of 70 mm	180°	170°	
on on	GEZE TS 4000 up to jamb depth of 165 mm	115°	110°	
Transom installation on push side	DORMA TS 73 up to jamb depth of 70 mm	180°	170°	
som ins push	DORMA TS 73 up to jamb depth of 135 mm	180°	180°	
Trans	GEZE TS 4000 With bracket for lintel installation	180°	180°	
	DORMA TS 73 With bracket for lintel installation	180°	180°	
nstallation on push side	GEZE TS 5000 L GEZE TS 5500 L With bracket for lintel installation	145°	120°	
Installa push	DORMA TS 93 G With bracket for lintel installation	145°	130°	
nted with ge	GEZE BTS 550 F	180°	180°	
Floor-mounted door closer with pivot hinge	DORMA BTS 80 F	180°	180°	
Floo dool pi	GEZE BTS 550 F-G Attached slide rail	170°	180°	

Notes:

- The stated aperture angles are approximate values.
- The aperture angle can be lower, if other hinges are used.
- Allow enough space for handles and door closer!
- Make sure to plan enough space and recesses for surface-mounted door closer and handles.
- For steel frames with 15 mm backbend and wooden wrap-around frames the aperture angle can enlarge about 3°, up to 7°.
- For steel block frames, wooden block frames and solid wooden frames with faces flush with the wall, the aperture angle can be 5° lower.
- If the door leaf thickness is 70 respectively 73 mm (rebated configuration), the aperture angle can be 5° lower.





Dimensions Minimum LD-width

Overview of 1-leaf doors

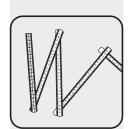
Туре	Edge configuration	Door leaf hanging	Minimum LD-Width
1 N	Rebated	Hinges	561 mm
IN	Unrebated	Hinges	561 mm
	Rebated	Hinges	436 mm
	Rebated	BTS with pivot hinge	561 mm
3 N, 13 N	Unrebated	Hinges	561 mm
3-60, 3-90 3 N-NT	Unrebated	BTS with pivot hinge	936 mm
314-141	Unrebated with jamb rebate	Hinges	561 mm
	Unrebated with jamb rebate	BTS with pivot hinge	936 mm
	Rebated, double-rebated	Hinges	561 mm
5 N, 16 N, 50-1	Rebated, double-rebated	BTS with pivot hinge	936 mm
5-60	Unrebated with jamb rebate	Hinges	561 mm
	Unrebated with jamb rebate	BTS with pivot hinge	936 mm
35 N, 17 N	Double-rebated	Hinges	561 mm
	Unrebated with double jamb rebate	Hinges	1)
10 N	Unrebated with double jamb rebate	BTS with pivot hinge	1)
ION	Double-rebated	Hinges	1)
	Double-rebated	BTS with pivot hinge	1)
	Rebated	Hinges	561 mm
25 N	Rebated	BTS with pivot hinge	936 mm
25 N	Unrebated with jamb rebate	Hinges	561 mm
	Unrebated with jamb rebate	BTS with pivot hinge	936 mm
0 N 00 1	Rebated	Hinges	561 mm
8 N, 80-1	Unrebated with jamb rebate	Hinges	561 mm
91 N	Rebated	Hinges	1)
3114	Unrebated with jamb rebate	Hinges	1)
120-1 N	Unrebated	Hinges	686 mm
25 N Slimline	Unrebated	Hinges	561 mm
91 N Slimline	Unrebated	Hinges	1)

BTS = Floor-mounted door closer

These measure restrictions guarantee a opening of the door without any problems. Depending on the frame rebate depth, door leaf width and the hinge pivot (door leaf hanging).



¹⁾ The dimensions of the types 10 N and 91 N are, depending on the structural location, individually different.



Dimensions **Minimum LD-width**

Overview of 2-leaf doors

Туре	Edge configuration	Door leaf hanging	Minimum Partial panic function on active leaf	LD-Width Panic function on active and inactive leaf	
2 N	Rebated	Hinges	1186 mm	1186 mm	
2 N	Unrebated	Hinges	1186 mm	1186 mm	
	Rebated	Hinges	1186 mm	1186 mm	
	Rebated	BTS with pivot hinge	1186 mm	1436 mm	
4 N, 14 N 4-60	Unrebated	Hinges	1186 mm	1186 mm	
4-60 4 N-NT	Unrebated	BTS with pivot hinge	1186 mm	1436 mm	
	Unrebated with jamb rebate	Hinges	1311 mm	1311 mm	
	Unrebated with jamb rebate	BTS with pivot hinge	1311 mm	2061 mm	
	Rebated, double-rebated	Hinges	1311 mm	1311 mm	
6 N, 26 N, 50-2	Rebated, double-rebated	BTS with pivot hinge	1311 mm	2061 mm	
6-60	Unrebated with jamb rebate	Hinges	1311 mm	1311 mm	
	Unrebated with jamb rebate	BTS with pivot hinge	1311 mm	2061 mm	
	Unrebated with double jamb rebate	Hinges	1)	1)	
20 N	Unrebated with double jamb rebate	BTS with pivot hinge	1)	1)	
20 N	Double-rebated	Hinges	1)	1)	
	Double-rebated	BTS with pivot hinge	1)	1)	
	Rebated	Hinges	1311 mm	1311 mm	
27 N	Rebated	BTS with pivot hinge	1311 mm	2061 mm	
	Unrebated with jamb rebate	Hinges	1311 mm	1311 mm	
	Unrebated with jamb rebate	BTS with pivot hinge	1311 mm	2061 mm	
24 N, 80-2	Rebated	Hinges	1311 mm	1611 mm	
24 N, 60-2	Unrebated with jamb rebate	Hinges	1311 mm	1936 mm	
92 N	Rebated	Hinges	1)	1)	
32 IV	Unrebated with jamb rebate	Hinges	1)	1)	
27 N Slimline	Unrebated	Hinges	1311 mm	1936 mm	
92 N Slimline	Unrebated	Hinges	1)	1)	

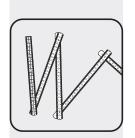
BTS = Floor-mounted door closer

¹⁾ The dimensions of the types 20 N and 92 N are, depending on the structural location, individually different.

These measure restrictions guarantee a opening of the door without any problems. Depending on the frame rebate depth, door leaf width and the hinge pivot (door leaf hanging).

2-leaf doors with panic function on active and inactive leaf, have generally to be equipped with a carrier bar.



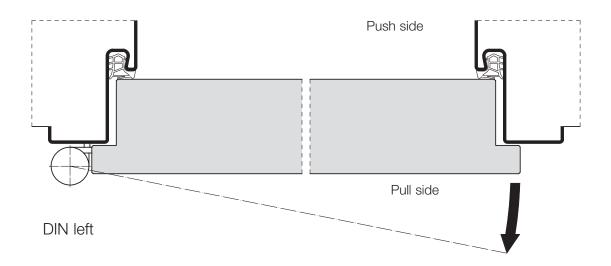


Dimensions

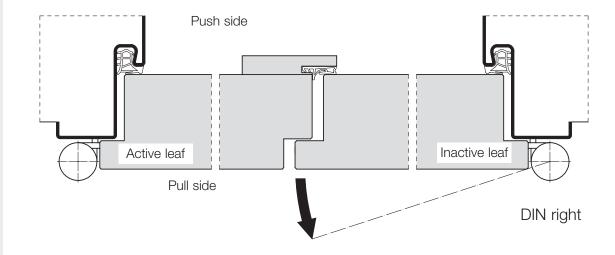
Opening direction

1-leaf and 2-leaf doors

The labeling of a door leaf as DIN right or DIN left results from the pull side. For 2-leaf doors DIN direction is determined by the active leaf.

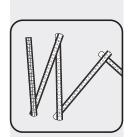


3.7





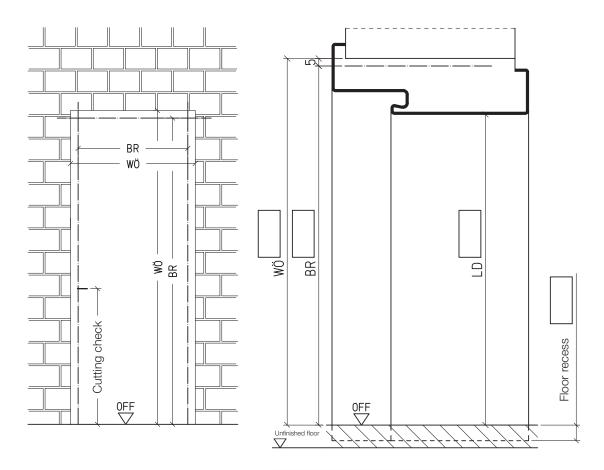
3.8

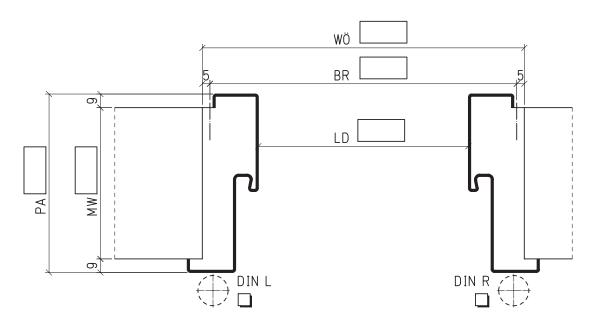


Dimensions

Dimensional measurement form

Door sets





Pos.	Door No.	Door lea	af edge	Height of the	Door leaf height
		Rebated	Unrebated	handles	for door sets with top panel

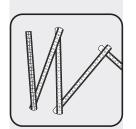


Schörghuber

WÖ = Wall opening PA = Overall frame depth BR = Basic dimension

LD = Clear passage

MW = Throat opening

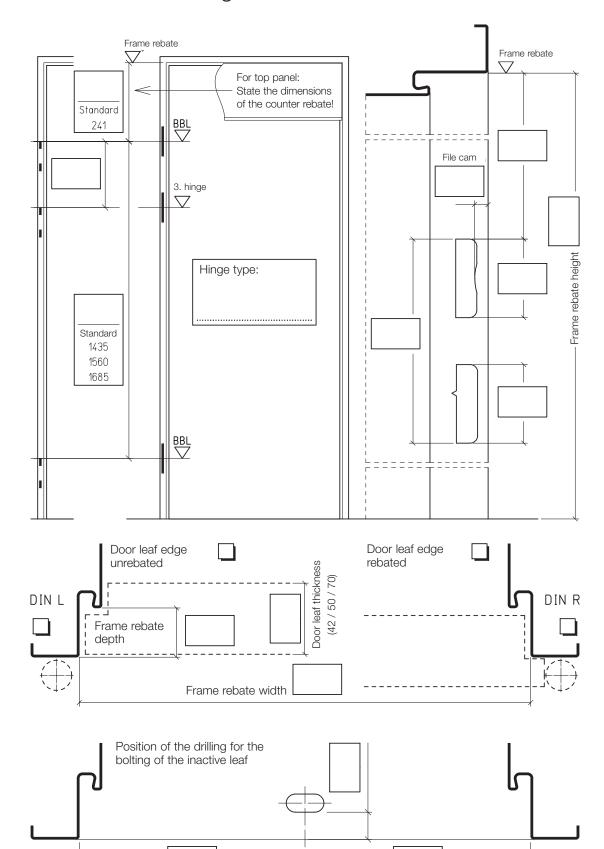


Dimensions

3.8

Dimensional measurement form

Door leaf for existing frames





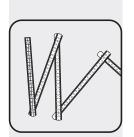
See steel frames respectively wooden frames for details of the reconstruction frame.

⇒ Chapter "Frames"

For DIN L

For DIN R

3.8

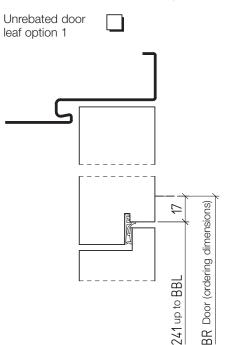


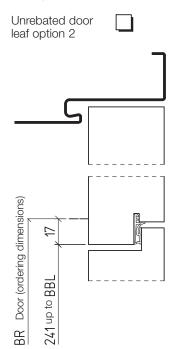
Dimensions

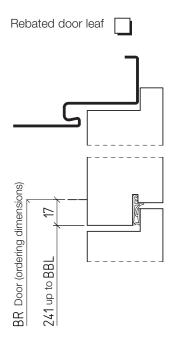
Dimensional measurement form

Door leaf with top panel for existing frames

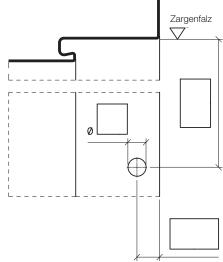
Tick the correct type and give location for the drillings







Position of the drillings for the top panel bracets







Content

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4.3	Solid wall	553 - 555
4.4	Gasblock concrete wall	556
4.5	Gypsum plasterboard wall	557 - 560
4.6	Solid gypsum wall	561 - 562
4.7	Special connecting walls	563
4.8	Installation instructions	564





Regulations / Wall types

General information

Regulations

The installation of Schörghuber special doors depends on the door function and has to follow the particular installation manual

Especially for Fire- and Smoke-Protection-Doors the regulations of the approval certificate and the test certificate have to be followed.

Regardless of the technical possibilities and options of the approval certificate the configuration of the walls / bearings has to follow the needs of the static requirements (in consideration of the door weight and the type of the fastening) on site.

Solid walls

- Masonry acc. to DIN 1053, part 1
 Minimum width 115 mm
 Pressure resistance 12
 Standard mortar of the mortar group II
- Reinforced concrete acc. to DIN 1045, part 1 Minimum width 100 mm
 Material strength class at least C 12/15

Lightweight partition wall systems (steel and wooden stud walls)

- Walls, at least fire resistance class F60 according to DIN 4102, part 4, section 4.10, table 48 and 49 made of gypsum plasterboard fire protection sheets
- Lightweight partition wall systems acc. to the general construction supervision test certificate (ABP) of the manufacturer, thickness ≥ 95 mm, at least fire resistance class F60
- Firewall systems acc. to the general construction supervision test certificate (ABP) of the manufacturer, for example Fermacell-, Knauf-, Promat-, Lafarge-, Rigips-Systeme

Gasblock concrete wall

- Gasblock concrete or shaped brick acc. to DIN 4165, material strength class 4 Minimum width 115 mm*
- Gasblock concrete boards
 Minimum width 115 mm*
 Material strength class at least G 4 respectively GP 4, as long as a general construction supervision test certificate is provided

Solid gypsum wall

 Solid gypsum wall acc. to DIN EN 12859 Minimum width 80 mm

Fixed glazing

→ Index 9, fixed glazings

Special connecting walls T 30

- Bearing made of masonry acc. to DIN 1053 ≥ F 90A
 Minimum dimensions 240 x 300 mm, acc. to DIN 4102, part 4, table 41
- Bearing made of reinforced concrete acc. to DIN 18806, part 1, ≥ F 90A Minimum dimensions 180 x 180 mm, acc. to DIN 4102, part 4, table 31
- Covered structural steel element ≥ F 60A
 Minimum dimensions 50 x 50 x 4 mm, acc. to DIN 4102, part 4, table 95
- Covered wooden structural element ≥ F 60B
 Minimum dimensions 120 x 120 mm, acc. to DIN 4102, part 4, table 80 to 84

Special connecting walls T 90

- Bearing made of masonry acc. to DIN 1053 ≥ F 90A
 Minimum dimensions 240 x 300 mm, acc. to DIN 4102, part 4, table 41
- Bearing made of reinforced concrete acc. to DIN 18806, part 1, ≥ F 90A Minimum dimensions 180 x 180 mm, acc. to DIN 4102, part 4, table 31
- Covered structural steel element ≥ F 120A
 Minimum dimensions 50 x 50 x 4 mm, acc. to DIN 4102, part 4, table 95

Special connecting walls F 30, F 90

- ► Index 9, fixed glazings
- * up to 175 mm max. door weight 100 kg



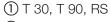
Schörghuber



Steel frames

Overview T 30, T 90 and RS

Projecting installation > 35 ≤ 100 mm Trapezoid anchor fastening Propeller anchor fastening Weld anchor fastening Slide anchor fastening Installation in hallways Cap anchor fastening Wall anchor fastening Face screw fastening Adapter fastening Screw fastening Masonry ≥ 115 mm 1 1 1 2 1 1 1 1 acc. to DIN 1053 Reinforced concrete≥100 mm acc. to DIN 10451045 (1) 2 (1) (1) (1) (1) (1) (1) Gasblock concrete wall 1) gasblock concrete 2 (1) (1) 2 (1) (1) (1) (1) ≥ 115 m Lightweight partition wall systems with steel 2 2 2 2 2 2 2 2 2 studs ≥ 95 mm ≥ F 60A acc. to DIN 4102 or ABP Lightweight partition wall systems with steel 2 2 2 2 2 2 2 studs \geq 95 mm \geq F 60B acc. to DIN 4102 or ABP AB Lightweight partition wall and firewall systems (1) 2 2 2 (1) (1) (1) (1) (1) steel studs ≥ 95 mm ≥ F 90A acc. to AB Covered structural steel 2 2 2 2 2 element ≥ F 60A acc. to DIN 4102 or ABP Covered structural steel 1 1 2 1 (1) element ≥ F 120A acc. to DIN 4102 or ABP Covered wooden 2 2 2 2 2 structural element ≥ F 60 acc. to DIN 4102 2 Solid gypsum wall acc. to DIN 18163 F 30 Glazing Z-19.14-180 respectively RS Glazing Type 25 V, PA 73 mm F 90 Glazing Type 90 V, PA 110 mm



Z-19.14-1521

Door set configurations (with/without top panel/fanlight, etc.) are subject to the frame and its installation ⇒ index 5



¹⁾ with additional wall bracket

⁽²⁾ T 30, RS

⁽³⁾ T 90



Wooden frames

Overview T 30, T 90 and RS

Wooden wrap-around fram	ie	Woo	den b	lock fi	rame	So	olid wa	ooden	frame)	Solid wooden block frame			
	Screw fastening	Screw fastening	Screw anchor fastening ≤ 25 mm	Screw anchor fastening ≤ 35 mm	Projecting installation > 35 ≤ 100 mm	Screw fastening	Screw anchor fastening ≤ 35 mm	Wall anchor fastening ≤ 25 mm	Installation in front of wall opening	Projecting installation > 35 ≤ 100 mm	Screw fastening	Projecting installation > 25 ≤ 100 mm	Projecting installation > 35 ≤ 100 mm	
Masonry ≥ 115 mm acc. to DIN 1053	1	1	3	2	2	2	2	2	2	2	2		2	
Reinforced concrete ≥ 100 mm acc. to DIN 1045	1	1	3	2	2	2	2	2	2	2	2		2	
Gasblock concrete wall ¹⁾ ≥ 115 mm acc. to DIN 4165	1	1	3	2	2	2	2		2	2	2		2	
Lightweight partition wall systems with steel studs ≥ 95 mm ≥ F 60A acc. to DIN 4102 or ABP	2	2		2	2	2	2		2	2	2	2		
Lightweight partition wall systems with wooden studs ≥ 95 mm ≥ F 60B acc. to DIN 4102 or ABP	2	2		2	2	2	2		2	2	2	2		
Lightweight partition and firewall systems with steel studs ≥ 95 mm ≥ F 90A acc. to ABP	1	1		2	2	2	2		2	2	2	2		
Covered structural steel element ≥ F 60A acc. to DIN 4102 or ABP	2	2		2	2	2	2		2	2	2		2	
Covered structural steel element ≥ F 120A acc. to DIN 4102 or ABP	1	1		2	2	2	2		2	2	2		2	
Solid gypsum wall acc. to DIN 18163	2	2				2								
Covered wooden structural element ≥ F 60B acc. to DIN 4102	2	2		2	2	2	2		2	2	2	2		
F 30 Glazing Z-19.14-180 respectively RS Glazing Type 25 V, PA 73 mm						2								
F 90 Glazing Type 90 V, PA 110 mm Z-19.14-1521						3								



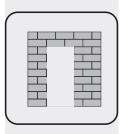
① T 30, T 90, RS

Door set configurations (with/without top panel/fanlight, etc.) are subject to the frame and its installation \Rightarrow index 5

② T 30, RS

③ T 90

¹⁾ with additional wall bracket



Solid wall

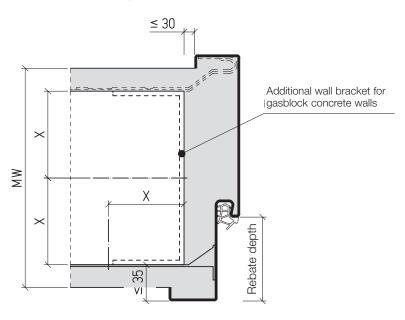
Installation

Frame fastening - steel frames

There is a variety of possibilities of how to fasten steel frames in solid walls. In general a nail/dowel anchor is used to fasten the frame in solid walls. As installation support four clamping anchors are enclosed with every frame.

Also allowed is the use of wall anchors, which have to be grouted in existing wall openings. Additional fastening methods are for example weld anchor, propeller anchor or screw fastening. The cavities between wall and steel frame have to be filled completely with mortar in order to guarantee a positive tie to the wall.

Standard fastening - steel frames



2-leaf door sets with steel frame are reinforced at the lintel with additional propeller anchors at three spots.





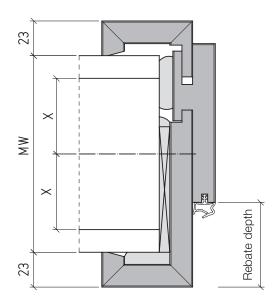
Solid wall

Installation

Frame fastening – wooden frames

In general wooden frames are mounted in standard installation with screw fastening. Solid wooden frames can also be delivered with wall anchor in order to be grouted in existing wall openings. The dowels and screws, necessary for the standard installation, need to be provided by the customer. Depending on the door function the wooden frames are delivered with the necessary pilot holes.

Besides the mechanical fastening, the remaining cavities between frame and wall need to be filled completely. For Schörghuber door sets the cavities beween wooden wrap-around and wooden block frames and the wall can be stuffed with mineral wool (material class A) or filled completely with 2-K-PU-foam (except T 90). The cavities of solid wooden frames need to be stuffed with mineral wool (material class A) and the joint has to be sealed with a permanent elastic material (e.g. silicone). Under certain, exactly defined conditions the frame cavities of solid wooden frames can, depending on their function, be filled with 2-K-PU-foam.



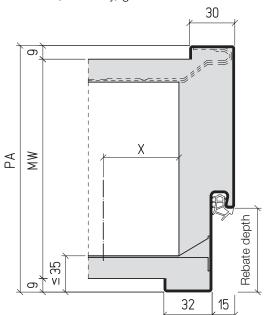


Solid wall

Installation

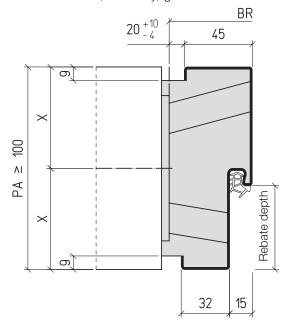
Nail/dowel anchor fastening

Steel wrap-around frame Concrete, masonry, gasblock concrete¹⁾



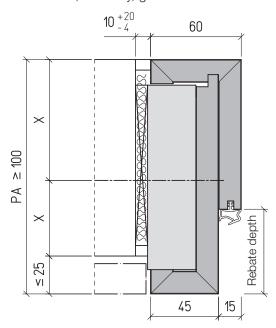
Weld anchor fastening

Steel block frame Concrete, masonry, gasblock concrete1)



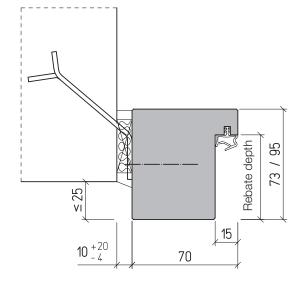
Screw fastening

Wooden block frame Concrete, masonry, gasblock concrete1)



Wall anchor fastening

Solid wooden frame Concrete, masonry





1) T 30, T 90 and RS with additional wall bracket

X-Measure

Concrete, Masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm 80, RS ≥ 57,5 mm up to 100 kg door weight Gasblock concrete T 30, RS Gasblock concrete RS

555

≥ 75,0 mm



Gasblock concrete wall

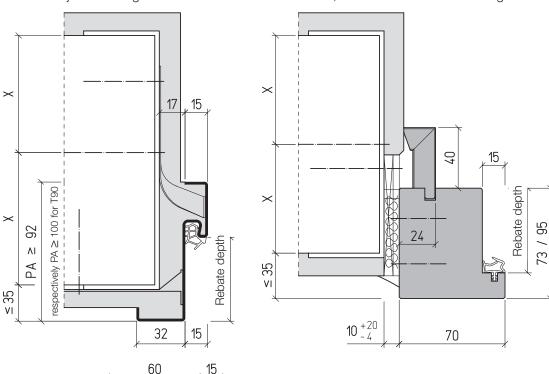
Installation

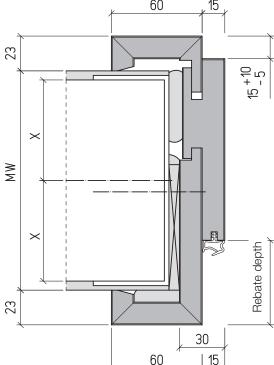
Frame fastening

A wall is considered a gasblock concrete wall, if it consists of cellular concrete blocks or shaped bricks according to DIN 4165 respectively cellular concrete boards, at least material strength class G 4 respectively GP 4.

Schörghuber special doors can also be installed in gasblock concrete walls. Regarding the door function, the installation of Fire-Protection-Doors (T 30 and T 90) in at least 175 mm thick walls is approved. For T 30/RS and a door weight of up to 100 kg a wall thickness of 115 mm or more is approved.

All frames are prepared as for solid walls and screwed onto an additionally wall bracket, dowelled to the wall jamb. During the installation of the wall bracket, the X-Measure has to be regarded.





X-Measure

Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm





Gypsum plasterboard wall

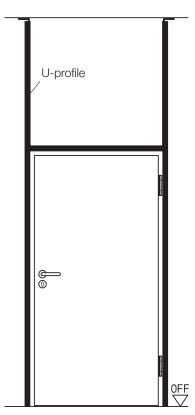
Installation in steel stud walls

Frame fastening - steel frames

Steel frames in gypsum plasterboard walls are fastened with cap anchors. The steel frames are mounted by screwing the cap anchors to a 2 mm thick steel post (u-profile), which reaches from the slab to the unfinished floor or with a hollow steel profile, according to the static requirements on site. The face cavities behind the backbends need to be filled with joint filler if the door set is rated fire and/or smoke protective. The remaining cavities between frame and wall need to be stuffed completely with mineral wool (material class A). In order to meet sound insulation requirements the frame cavities need to be stuffed completely with mineral wool (material class A). The joints between wall and frame need to be sealed with a permanent elastic material (e.g. silicone)

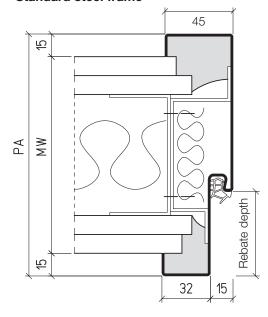
Frame fastening - wooden frames

Wooden frames are mounted using the screw fastening method. A covering of the wall jamb with gypsum plasterboards is not necessary for wooden wrap-around frames (except T 90) and wooden block frames with quirk. The cavities beween the wooden wrap-around frames and the wall can be stuffed with mineral wool (material class A) or filled completely with 2-K-PU-foam (except T 90). Wooden block and solid wooden frames need to be stuffed with mineral wool material class A (melting point >1000° C) and sealed with a permanent elastic material (e.g. silicone). Under certain, exactly defined, conditions the frame cavities of wooden block and solid wooden frames can, depending on their function, be filled with 2-K-PU-foam.

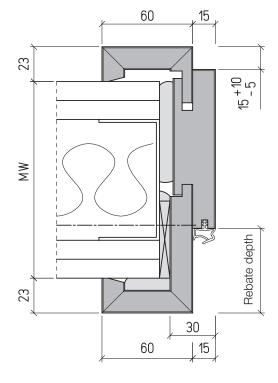


2-leaf door sets have to be screwed to a horizontal u-profile at the lintel with three additional cap anchors.

Standard steel frame



Standard wooden wrap-around frame, 3-parted T 30 and RS $\,$



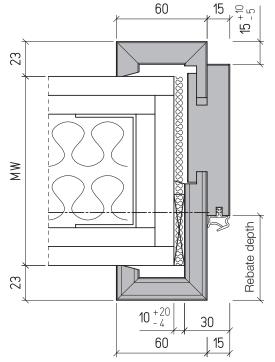




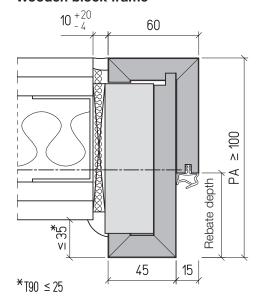
Gypsum plasterboard wall

Installation in steel stud walls

T 90 Wooden wrap-around frame

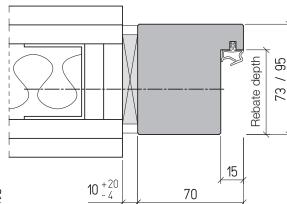


Wooden block frame

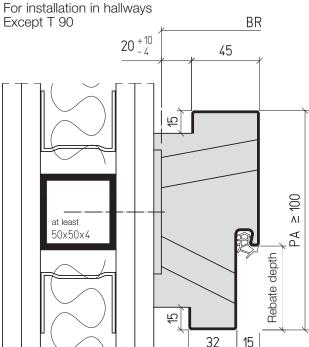


Solid wooden frame

with screw fastening



Steel block frame



For the installation in hallways a hollow steel profile (at least $50 \times 50 \times 4$ mm or according to static requirements) has to be integrated and anchored to the ceiling and floor during the erection of the gypsum plasterboard wall.

Installation T 90 → page 599

Allow enough space for handles and door closer.



55

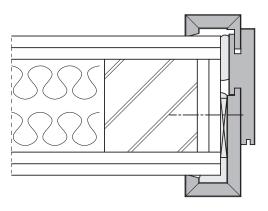


Gypsum plasterboard wall

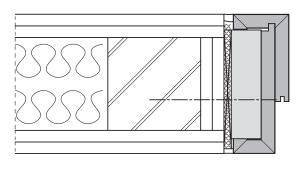
Installation in wooden stud walls

For the installation of Schörghuber Fire- and Smoke-Protection-Doors (except T 90) in wooden stud walls the same premises as for steel stud walls are valid. The construction of the wall needs to follow the guidelines of DIN 4102, part 4, table $49 \ge F$ 60 B. Important for the installation is the general procedure to cover the wall jamb with the same material as the rest of the wall

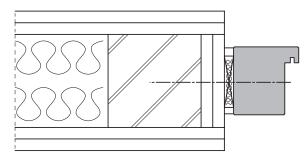
Wooden wrap-around frame



Wooden block frame

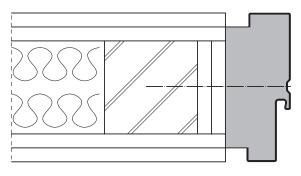


Solid wooden frame

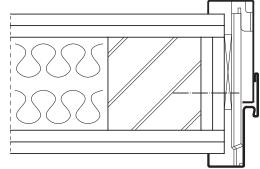


Steel block frame

with screw fastening



Trapezoid anchor fastening









Lightweight partitioning walls and firewalls

Installation T 90

For the installation of 1- and 2-leaf Schörghuber T 90 door sets, types 8 N/24 N, 80-1/80-2 and 91 N/92 N the following lightweight partitioning walls and firewalls F 90 A are approved. Door sets with steel frames are as well allowed as wooden wrap-around and block frames.

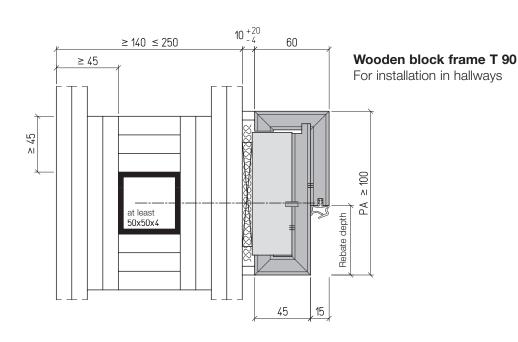
Wall description	Wall thickness	Official approval
Stud walls according to DIN 4102, Teil 4, Tabelle 48, ≥ F 90	≥ 100 mm	DIN 4102
Knauf W 112	≥ 100 mm	IBMB Braunschweig, PZNr.: P-3310/563/07
Knauf W 115, W 116	≥ 100 mm	IBMB Braunschweig, PZNr.: P-3157/4012
Knauf W 131	≥ 131 mm	IBMB Braunschweig, PZNr.: P-3391/170/08
Fermacell 1S31	≥ 95 mm	IBMB Braunschweig, PZNr.: P-3854/1372
Lafarge L 12, L 13; L 14	≥ 100 mm	MPA Nordrhein-Westfalen PZNr.: P-MPA-E-99-020
Promat Typ 450.90	≥ 142 mm	IBMB Braunschweig, PZNr.: P-3796/7968
Rigips Brandwand	≥ 116 mm	IBMB Braunschweig, PZNr.: P-3020/0109

Additional wall types on request

Frame fastening

Steel frames in standard installation are fastened with cap anchors and the cavities have to be filled completely with mortar. Wooden frames are screwed on to the wall and the cavities are stuffed completely with mineral wool (material class A, melting point > 1000°).

An **installation in hallways** is possible with either a steel frame with weld anchor fastening or with a wooden block frame. Therefore a square-cut hollow steel profile, covered with gypsum plaster boards on every side, with the minimum dimensions of 50 x 50 x 4 mm or more, depending on the static requirements needs to be integated into the wall. The wall thickness must be at least 140 mm.



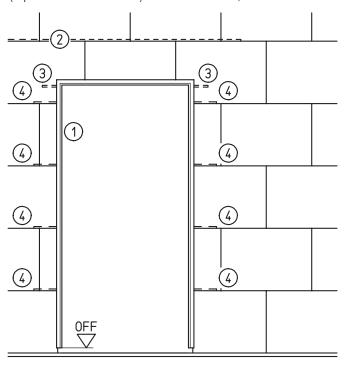




Solid gypsum wall

Installation, steel frames

A sold gypsum wall is a wall made of gypsum boards, according to DIN EN 12859, June 2008 (replaces DIN 18163-1) Thickness of 80, 100 and 120 mm.

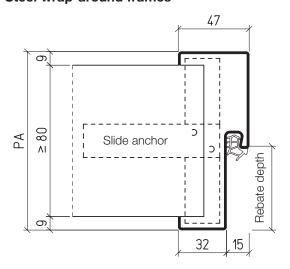


- ① Frame
- ② Groove band, 3 m
- 3 Groove band on both sides, at least 125 mm
- 4) Slide anchor

Frame fastening

The steel frames for this wall type are eqipped with slide anchors, which are mounted at the height of the gypsum board joints during the installation. Frame and wall need to be reinforced with groove bands above the lintel. The cavities of the frame need to be filled with joint filler on three sides (lateral and below) and above the lintel with mineral wool (material class A).

Steel wrap-around frames







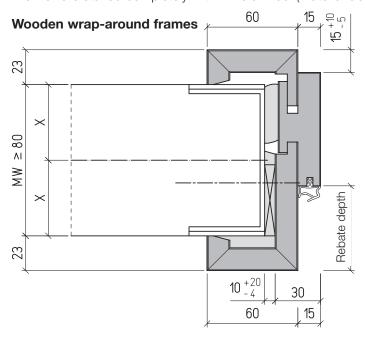
Solid gypsum wall

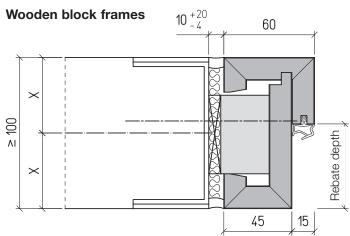
Installation, wooden frames

Frame fastening

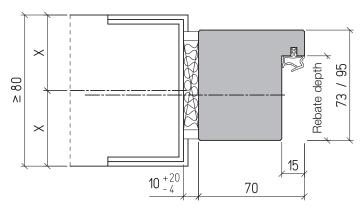
Wooden frames are mounted onto an additional wall bracket in the jamb and fastened with self-drilling screws (screw fastening).

The cavities between wooden wrap-around and wooden block frames and the wall are filled completely with 2-K-PU-foam and for solid wooden frames the cavities between the frame and the wall are stuffed completely with mineral wool (material class A).





Solid wooden frames





X-Measure

Solid gypsum ≥ 40,0 mm

4.6



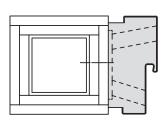
Special connecting walls

Steel and wooden frames

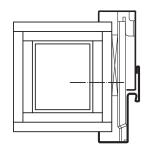
Connection to a covered structural steel element (≥ F 60 A) Not T 90

Steel block frame with weld anchor fastening

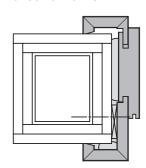
also with screw fastening or propeller anchor fastening



Trapezoid anchor fastening



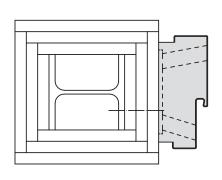
Wooden wraparound frame



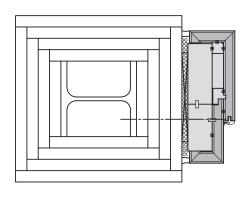
Connection to a covered structural steel element (≥ F 120 A)

T 90 Steel block frame with weld anchor fastening

also with screw anchor fastening

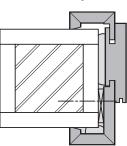


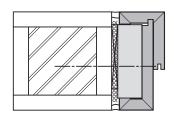
T 90 Wooden block frame



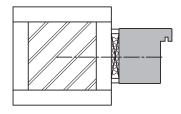
Connection to a wooden structural element (≥ F 60 B) Not T 90

Wooden wrap-around frame Wooden block frame





Solid wooden frame

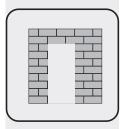


Dimensions of the structural elements

Covered structural steel elements according to DIN 4102, part 4, table 89 and 95 at least F 60 A. Wooden beams according to DIN 4102, part 4, table 80 to 83.

The proportion of the structural elements has to be dimensioned according to the static demands on site.





Installation instructions

Installation of steel frames and wooden frames

Installation and filling of the cavities of steel and wooden frames

Ø		Door function															
Frames	Complete filling of the construction joint for installation in solid walls	1 30	1 60	1 90	RS	SD 32	SD 37	SD 42	SD 45	SD 48	05 QS	WK 2	WK 3	PB	DT	NT	٧T
	with mortar	•	•	•3)	•	•	•	•	•	•	•	•	•	• 5)	•	•	•
Steel	with mineral wool	•1)			• 1)	• 1)	• 1)	0				• 1)	• 1)	O ⁵⁾			O ¹⁾
	with 2-K-PU-foam					0	0					0	0	O ⁵⁾			0
Wooden wrap- around	with mineral wool	0	•	•	0	0	0	•	•	•	•	0	0				0
Woode wrap- around	with 2-K-PU-foam	•			•	•	•	0	0			•	•				•
oden K	with mineral wool	•	•2)	•	• 4)	0	0	•	•	•	•	0	0				0
Wooden block Solid wooden	with 2-K-PU-foam	0			•	•	•	0				•	•				•

		Door function															
Frames	Complete filling of the construction joint for installation in gypsum plasterboard walls	1 30	1 60	1 90	RS	SD 32	SD 37	SD 42	SD 45	SD 48	SD 50	WK 2	WK 3	PB	DT	NT	٧T
	with mortar	0	0	•3)	0	0	0	0	•	•	•	0	0	•5)		•	0
Steel	with mineral wool	•			•	•	•	•				•	•	O ⁵⁾			•
0)	with 2-K-PU-foam					0	0					0	0	O ⁵⁾			0
den -	with mineral wool	0	0	•	0	0	0	•	•	•	•	0	0				0
Wooden wrap- around	with 2-K-PU-foam	•			•	•	•	0				•	•				•
den	with mineral wool	•	0	•4)	•	0	0	•	•	•	•	0	0				0
Wooden block Solid wooden	with mineral wool with 2-K-PU-foam	• ⁶⁾			•	•	•					•	•				•

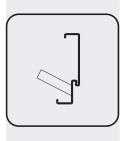
Irrespective of the filling of the frame cavities, a mechanical fastening is necessary, depending on the door function and the door weight. Mineral wool of material class A has to be used for Fire- and Smoke-Protection-Doors.

- 1) Standard for frames for installation in existing walls (trapezoid anchor or adapter fastening)
- ²⁾ T 60 only with wooden block frame
- ³⁾ The cavities of T 90 frames for installation in existing walls (trapezoid anchor or adapter fastening) have to be filled with GKF and joint filler
- ⁴⁾ T 90 only with wooden block frame or folded wooden frame
- ⁵⁾ Frame with separate lead inlay or with special radiation protection mortar filling
- ⁶⁾ Under certain, exactly defined conditions 2-K-PU-foam can be used for solid wooden frames
- Standard
- O = On request

\$D 48 = Sound-Insulation Rw,P 48 dB

T 30 = T 30 Fire-Protection
T 60 = T 60 Fire-Protection
T 90 = T 90 Fire-Protection
RS = Smoke-Protection
RS = Sound-Insulation Rw,P 32 dB
RS = Sound-Insulation Rw,P 32 dB
RS = Sound-Insulation Rw,P 37 dB
RS = Sound-Insulation Rw,P 37 dB
RS = Sound-Insulation Rw,P 42 dB
RS 42 = Sound-Insulation Rw,P 45 dB
RS 45 = Sound-Insulation Rw,P 45 dB
RS 50 = Sound-Insulation Rw,P 50 dB
RK 2 = Burglar-Protection WK 2
RK 3 = Burglar-Protection WK 4
RF = Radiation-Protection
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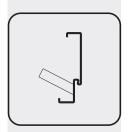




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Steel frames

General information

Steel frames disassembled / welded

Steel frames are by default delivered disassembled. The frame parts are shrink-wrapped into foil for the transport.

Differing from standard procedures, following models are delivered welded:

- Frames with face width > 46 mm (pull side)
- Frames with MW > 500 mm
- Quirk frames
- Decorative rebated frames
- Double-rebated frames
- · Stainless steel frames
- Round shaped frames
- Sports hall frames
- Powder-coated frames
- Expansion joint frames
- Frames with lead (Pb) inlay

Material thickness

The steel sheets are 1.5 mm thick. On request, a material thickness of 2 mm (except V4A stainless steel) is available. Steel corner frames and round-shaped frame 29304 / 29804 are by default manufactured with a sheet thickness of 2 mm.

Surface

The steel frame surface is galvanized and undercoated. On request, a RAL or special colour powder coating is possible. Stainless steel frames are available with either V2A- or V4A-Material with surface grinding, grit 240.

Backbend

The backbend for a steel frame installation into a solid wall is 9 mm, for a gypsum plaster-board wall installation a backbend of 15 mm is required. The backbend can be extended up to a maximum of 25 mm.

Face width

Steel wrap around frames have a face width of 32-100 mm on hinge side and 30-100 mm on opposite side of hinges. The standard steel wrap around frames for the installation in solid walls have a face width of 32/30 mm, for an installation into a plaster board walls 32/45 mm.

Spreader bars

The spreader bars for disassembled frames are prepared to be screwed on, while the spreader bar for welded frames are attached. Spreader bars are solely for the mounting of the frames and can be removed after installation.

Floor recess

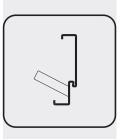
Frames for the installation in solid walls are by default equipped with a floor recess of 30 mm, frames for gypsum plasterboard walls without floor recess. On request, frames can be ordered with or without floor recess. Depending on the structural situation a divergent floor recess can be demanded. Frames delivered with floor recess can be shortened on construction site. If floor-mounted door closers are to be installed, the recess of the frame must be 45 mm in order to be connected with the cement box.

Special gaskets

By default grey gaskets for steel frames are supplied, alternatively they are available in black, white and brown.







Frames 5.1

Steel frames

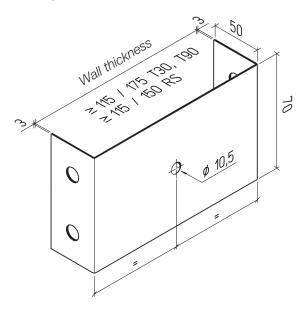
General information

Installation / mounting in masonry and concrete walls

There are a variety of options how steel frames can be mounted. By default a nail/dowel anchor is used for mounting the frame in a solid wall. The frame is mechanically mounted to the wall by doweling the anchor to the surface of the wall. Afterwards the cavities of the frame must be filled completely with mortar.

Installation / mounting in gasblock concrete walls

To mount steel frames in gasblock concrete wall brackets are needed for stabilizing the wall, for measurements see drawing below. Just like for the installation in masonry and concrete, the cavities of the frame must be filled completely with mortar. The wall brackets are supplied by Schörghuber.



Installation / mounting in gypsum plasterboard walls

In gypsum plasterboard walls a cap anchor is used to connect the frames to the wall. The steel frames are mounted, according to the static requirements, either by screwing the anchor to a u-profile (2mm, reaching from floor to ceiling) or hollow steel profiles.

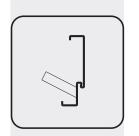
In case of fire- or smoke-protection requirements each frame face has to be filled with joint filler and the remaining cavities have to be stuffed with mineral wool, construction material class A (mineral rock wool). Exceptions are T 90 elements, which frame cavities have to be filled completely either with mortar or gypsum.

Installation / mounting specifics

The cavities of the steel frames for T 90 fire protection doors as well as frames for highly sound-deadening doors (sound insulation ≥ Rw, P 42 dB) must be filled completely with mortar, even for the installation in gypsum plasterboard walls. In principle the cavities of the frames, weld anchor, propeller anchor and screw fastening must be filled completely with mortar. Frames for the installation in existing gypsum plasterboard walls like face screw fastening, trapezoid anchor fastening and adapter fastening have to be, determined by the function (T 30 and smoke protection), stuffed with mineral wool (construction material class A). The same applies for frames, trapezoid anchor fastening and adapter fastening in solid walls.

For T 90 doors with trapezoid anchor fastening or adapter fastening, the cavities of the frame have to be filled completely with GKF and joint filler.



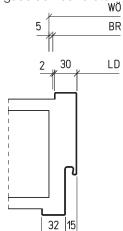


Steel frames

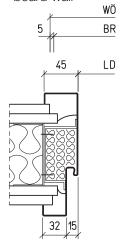
Overview

Wrap-around frame

Concrete, masonry, gasblock concrete WÖ

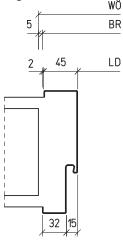


Wrap-around frame Gypsum plasterboard wall



Block frame

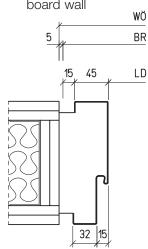
Concrete, masonry gasblock concrete



Block frame

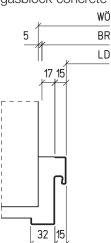
Gypsum plasterboard wall

5.1



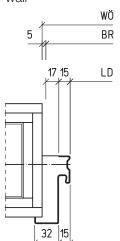
Corner frame

Concrete, masonry, gasblock concrete



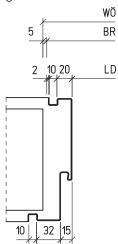
Corner frame

Gypsum plasterboard wall



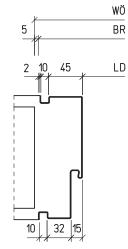
Quirk frame

Concrete, masonry, gasblock concrete



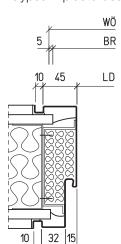
Quirk frame

Concrete, masonry, gasblock concrete



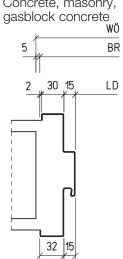
Quirk frame

Gypsum plasterboard wall



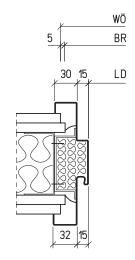
Decorative rebated frame

Concrete, masonry,

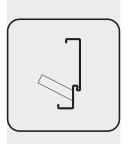


Decorative rebated frame

Gypsum plasterboard wall







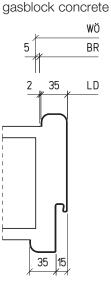
5.1

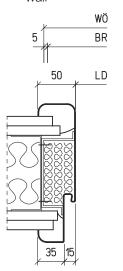
Steel frames

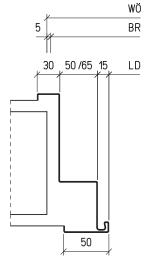
Overview

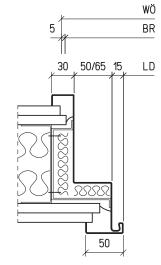
Round shaped frame Concrete, masonry,

Round shaped frame Gypsum plasterboard wall Sports hall frame Concrete, masonry, gasblock concrete **Sports hall frame**Gypsum plasterboard wall



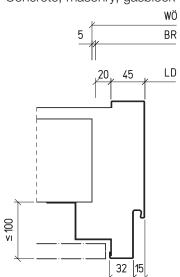






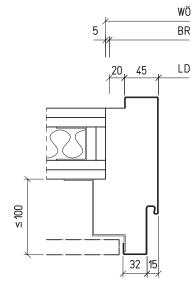
Projecting frame

Concrete, masonry, gasblock concrete



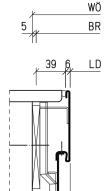


Gypsum plasterboard wall



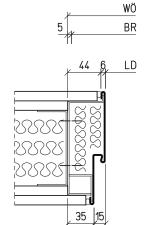
Fineline frame

Concrete, masonry, Gasblock concrete



Fineline frame

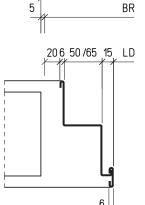
Gypsum plasterboard wall



Fineline Sportshall frame Concrete, masonry.

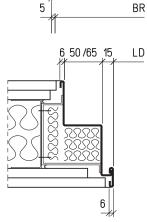
WÖ

Concrete, masonry, Gasblock concrete



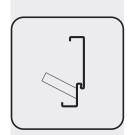
Fineline Sportshall frame

Gypsum plasterboard wall





WÖ

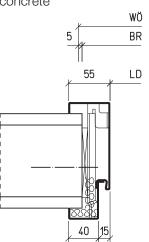


Steel frames

Overview

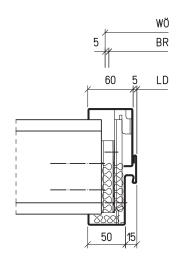
Installation in existing walls

Trapezoid anchor fastening Concrete, masonry, gasblock concrete



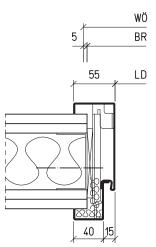
Installation in existing walls

Adapter fastening Concrete, masonry, gasblock concrete

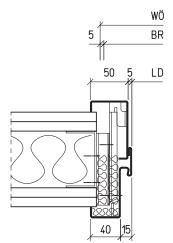


Installation in existing walls

Trapezoid anchor fastening Gypsum plasterboard wall



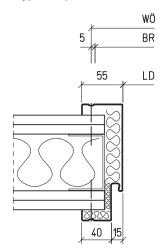
Adapter fastening Gypsum plasterboard wall



Installation in existing walls Installation in existing walls

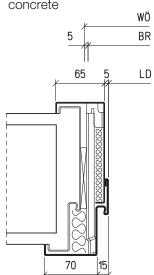
5.1

Screw fastening Gypsum plasterboard wall



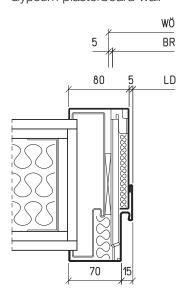
Reconstruction frame

Concrete, masonry, gasblock concrete



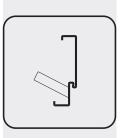
Reconstruction frame

Gypsum plasterboard wall





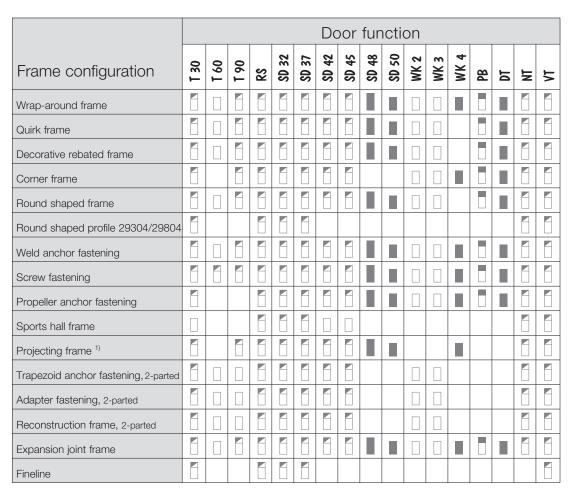




Frames 5.1

Steel frames in solid wall

Performance overview



¹⁾ For extremly sound-deadening doors (≥ Rw,P 42 dB) with projecting installation a decrease of the Sound-Insulation value of about 2-3 dB is possible.

= Solid door

 \square = Solid door and door with glazing

= Solid door and door with glazing and top panel (counter-rebated)

= Solid door and door with glazing and fanlight

= Solid door and door with glazing and top panel/fanlight

= Solid door with top panel

T 30 = T 30 Fire-Protection

160 = T 60 Fire-Protection

190 = T 90 Fire-Protection

RS = Smoke-Protection

\$D 32 = Sound-Insulation Rw,P 32 dB

\$D 37 = Sound-Insulation Rw,P 37 dB

SD 42 = Sound-Insulation Rw,P 42 dB

\$D 45 = Sound-Insulation Rw,P 45 dB

SD 48 = Sound-Insulation Rw,P 48 dB

\$D 50 = Sound-Insulation Rw,P 50 dB

WK2 = Burglar-Protection WK 2

WK3 = Burglar-Protection WK 3

WK 4 = Burglar-Protection WK 4

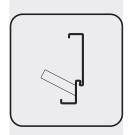
PB = Radiation-Protection

DT = Bullet-Resistant M 3

NT = Wet Room

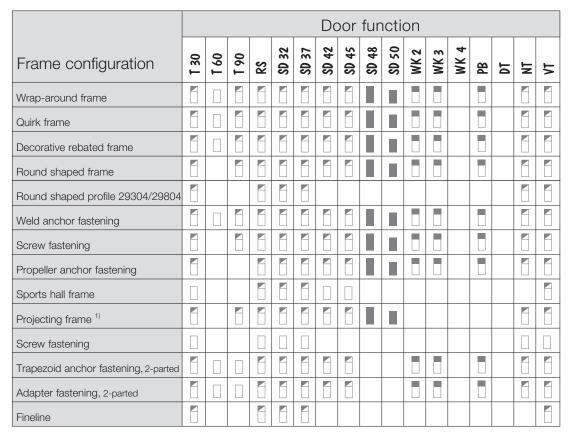
VT = Solid core





Steel frames in gypsum plasterboard wall

Performance overview



¹⁾ For extremly sound-deadening doors (≥ Rw,P 42 dB) with projecting installation a decrease of the Sound-Insulation value of about 2-3 dB is possible.

- = Solid door
- \square = Solid door and door with glazing
- = Solid door and door with glazing and top panel (counter-rebated)
- = Solid door and door with glazing and fanlight
- = Solid door and door with glazing and top panel/fanlight
- Solid door with top panel

= T 30 Fire-Protection = T 60 Fire-Protection = T 90 Fire-Protection = Smoke-Protection

SD 32 = Sound-Insulation Rw.P 32 dB

SD 37 = Sound-Insulation Rw,P 37 dB **\$D 42** = Sound-Insulation Rw,P 42 dB **SD 45** = Sound-Insulation Rw,P 45 dB **SD 48** = Sound-Insulation Rw.P 48 dB **\$D 50** = Sound-Insulation Rw,P 50 dB

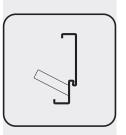
WK2 = Burglar-Protection WK 2

WK3 = Burglar-Protection WK 3 **WK 4** = Burglar-Protection WK 4

= Radiation-Protection PB DT = Bullet-Resistant M 3

NT = Wet Room = Solid core

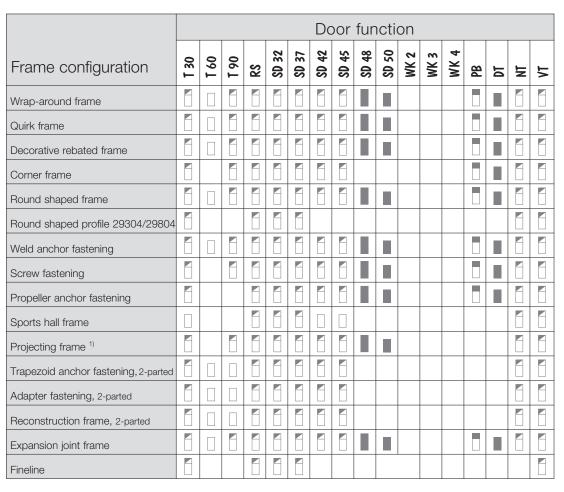




Frames 5.1

Steel frames in Gasblock concrete

Performance overview



¹⁾ For extremly sound-deadening doors (≥ Rw,P 42 dB) with projecting installation a decrease of the Sound-Insulation value of about 2-3 dB is possible.

= Solid door

 \square = Solid door and door with glazing

= Solid door and door with glazing and top panel (counter-rebated)

= Solid door and door with glazing and fanlight

= Solid door and door with glazing and top panel/fanlight

= Solid door with top panel

T 30 = T 30 Fire-Protection

160 = T 60 Fire-Protection

190 = T 90 Fire-Protection

RS = Smoke-Protection

\$D 32 = Sound-Insulation Rw,P 32 dB

\$D 37 = Sound-Insulation Rw,P 37 dB

\$D 42 = Sound-Insulation Rw,P 42 dB

\$D 45 = Sound-Insulation Rw,P 45 dB

SD 48 = Sound-Insulation Rw,P 48 dB

\$D 50 = Sound-Insulation Rw,P 50 dB

WK2 = Burglar-Protection WK 2

WK 3 = Burglar-Protection WK 3

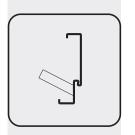
WK 4 = Burglar-Protection WK 4

PB = Radiation-Protection

DT = Bullet-Resistant M 3

NT = Wet Room VT = Solid core





Steel frames

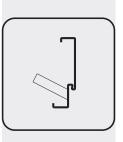
Rebate depths

			Main	rebate	(in mm)		2nd r	2nd rebate (in r				
				Door leaf	:			Door leaf				
1-leaf door	Door leaf thickness	Rebated	Unrebated	Unrebated with jamb rebate	Double-rebated	Unrebated with double-rebated jamb	Unrebated with jamb rebate	Double-rebated	Unrebated with double-rebated jamb			
1 N	42 mm	28,5	47									
3 N, 13 N	50 mm	38,5	55,5									
5 N, 16 N	70 mm	55,5		55,5			21,5					
21 N, 8 N	70 mm	55,5		55,5			21,5					
17 N	70 mm				34,5			21,5				
50-1	91 mm				55,5			21,5				
80-1	91 mm				55,5			21,5				
10 N	110 mm				55,5	66,5		28,5	21			
25 N	73 / 95 mm	55,5		55,5	55,5	55,5	21,5	21,5	22			
		•					•					
		Main roboto (2-22)										

5.1

			Main	rebate	(in mm)		2nd rebate (in mm)				
				Door leaf	F			Door leaf	f		
2-leaf door	Door leaf thickness	Rebated	Unrebated	Unrebated with jamb rebate	Double-rebated	Unrebated with double-rebated jamb	Unrebated with jamb rebate	Double-rebated	Unrebated with double-rebated jamb		
2N	42 mm	28,5	47								
4 N, 14 N	50 mm	38,5	55,5								
6 N, 26 N	70 mm	55,5		55,5			21,5				
24 N	70 mm	55,5		55,5			21,5				
50-2	91 mm				55,5			21,5			
80-2	91 mm				55,5			21,5			
20 N	110 mm				55,5	66,5		28,5	21		
27 N	73 / 95 mm	55,5		55,5	55,5	55,5	21,5	21,5	22		

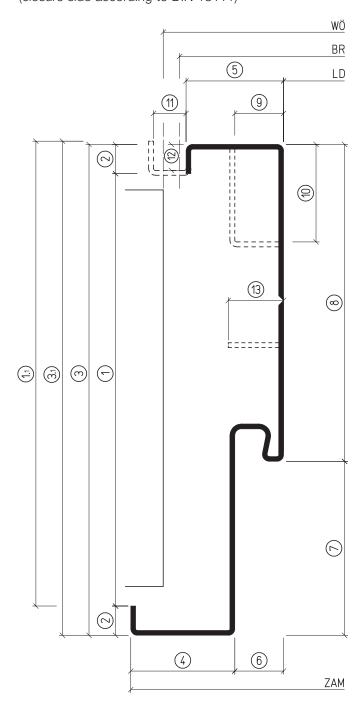




Steel frames

Technical terms

Push side (BGS) (closure side according to DIN 18111)



Pull side (BS) (opening side according to DIN 18111)

Throat opening (wall thickness) MW

5.1

- ①. MW for quirk frames
- 2 Backbend
- 3 Overall frame depth (PA)
- 31) PA for quirk frame
- 4 Face, pull side
- 5 Face, push side
- (6) Rebate width
- 7) Rebate depth
- 8 Jamb depth
- 9 Decorative rebate width
- Decorative rebate depth (always indicate please!)
- (11) Quirk width
- (12) Quirk depth of 8 mm
- Face on push side for corner frames

BS = pull side

BGS = push side

WÖ = wall opening

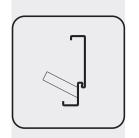
BR = basic dimension

LD = clear opening

ZAM = overall frame dimension



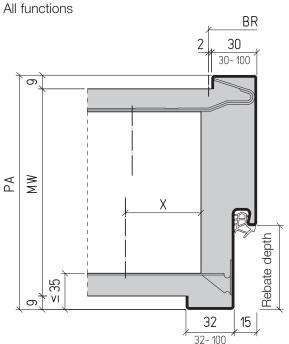




Steel frames

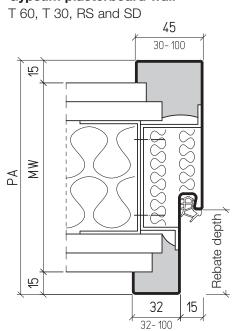
Steel wrap-around frames

Concrete, masonry



Gypsum plasterboard wall

5.2



Gasblock concrete

T 30, RS and SD

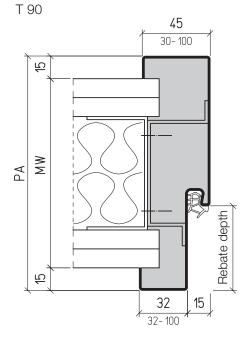
BR
2 30
30-100

WM

X

32 15
32-100

Gypsum plasterboard wall

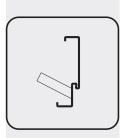




Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm





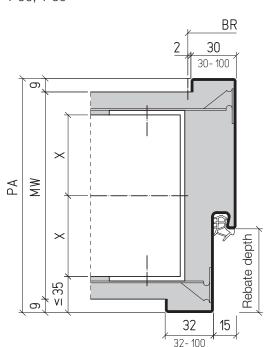
Frames

Steel frames

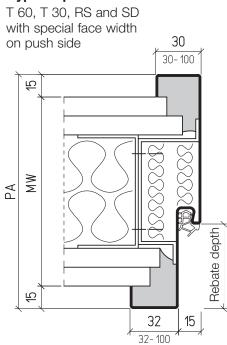
Steel wrap-around frames

Gasblock concrete

T 90, T 60

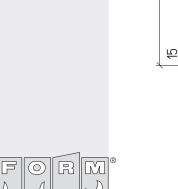


Gypsum plasterboard wall



Gypsum plasterboard wall

T 90 with special face width on push side 30 30-100 4dep atready 4d 32 15 32-100



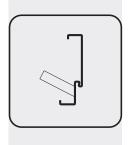
Schörghuber

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm

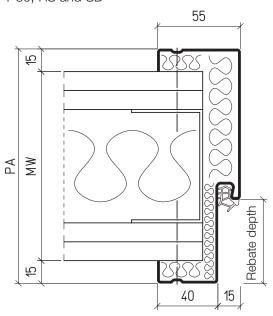


Steel frames

1-parted frame, installation in existing wall

Gypsum plasterboard wall

T 30, RS and SD



The 1-parted frame option is dependant on the function and due to the weight of the door leaf only available for 50 mm thick doors without top panel. For the installation in existing light-weight partition walls, the frame will be delivered disassembled.

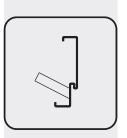
5.2

The wall opening width (measured between the doorposts) has to be applied to the DIN 18100, in order to obtain standard dimensions for the door leaf. The same applies for the wall opening height, which has to be measured from the surface of the finished floor up to the bottom edge of the lintel.

The face width on pull side is 40 mm and 55 mm on the push side. The sheet thick-ness is 1,5 mm; on request also available as 2 mm.

For Sound-Insulation requirements it is important to ensure an effective filling of the frame cavities, as well as a proper sealing of the frame.





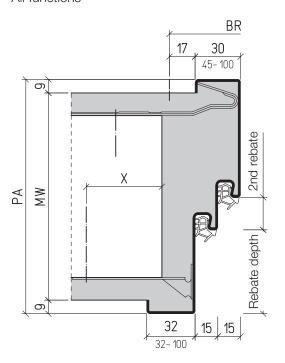
Frames

Steel frames

Steel wrap-around frames, double-rebated

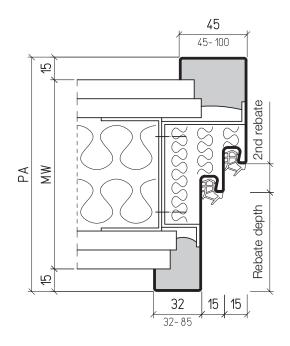
Concrete, masonry

All functions



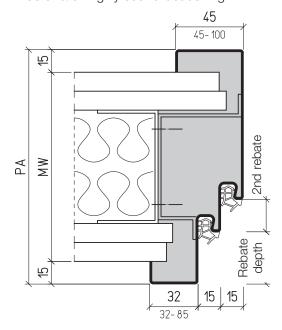
Gypsum plasterboard wall

T 60, T 30, RS and SD



Gypsum plasterboard wall

T 90 and/or highly sound-deadening





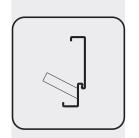
X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm



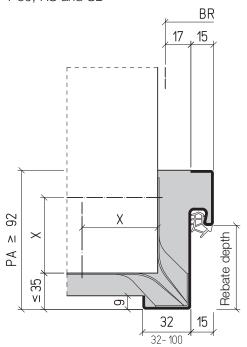


Steel frames

Steel corner frames

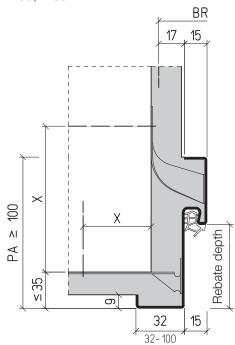
Concrete, masonry

T 30, RS and SD



Concrete, masonry

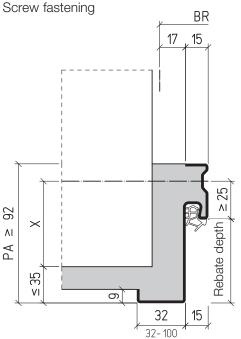
T 90, T 60



5.3

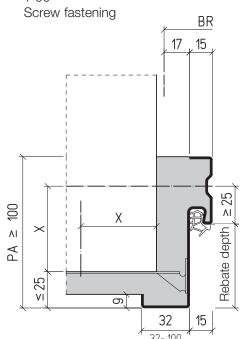
Concrete, masonry

T 30, RS and SD Screw fastening



Concrete, masonry

T 90



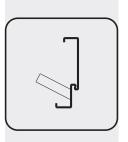


Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

Gasblock concrete RS up to 100 kg door weight \geq 75,0 mm



Schörghuber



Frames

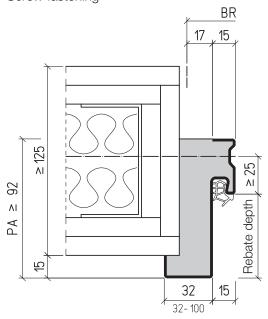
Steel frames

Steel corner frames

Gypsum plasterboard wall

T 30, RS and SD Screw fastening

Gasblock concrete



X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm

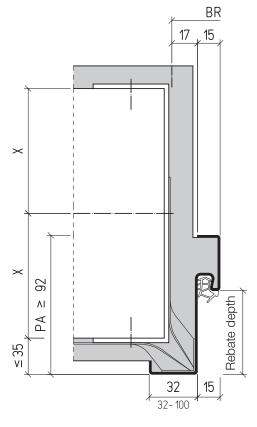
32

32-100

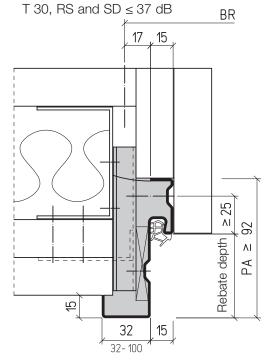
15

Gasblock concrete

T 30, RS and SD



Duct wall F 90



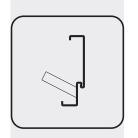
Single side planked duct wall F 90 by

- Knauf
- Ridurit

Details see page 625





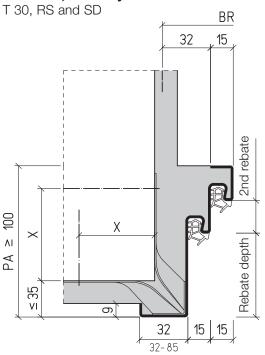


5.3

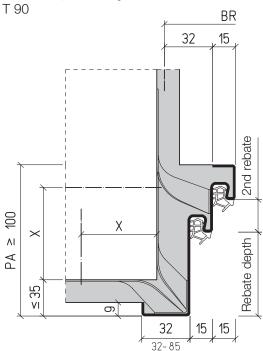
Steel frames

Steel corner frames, double-rebated

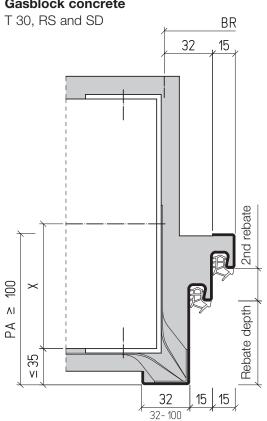
Concrete, masonry



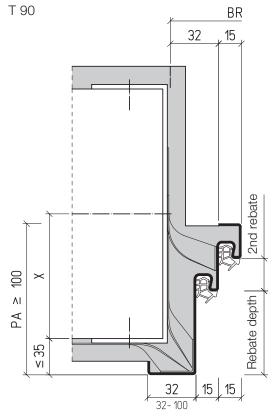
Concrete, masonry



Gasblock concrete



Gasblock concrete

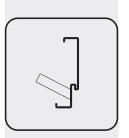


X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight Gasblock concrete RS ≥ 75,0 mm





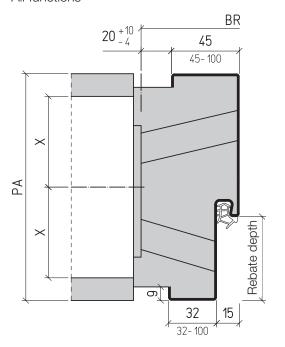
Frames

Steel frames

Steel block frames, weld anchor fastening

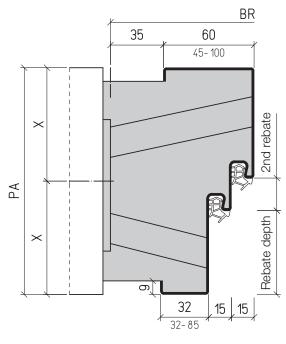
Concrete, masonry

All functions



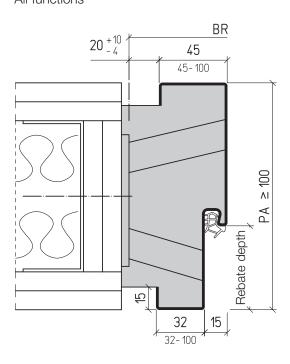
Concrete, masonry

Rw,P \geq 42 dB



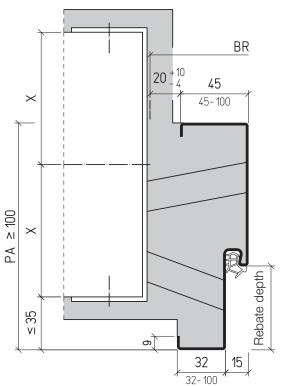
Gypsum plasterboard wall

All functions



Gasblock concrete

All functions



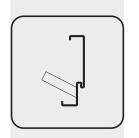
X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm



583



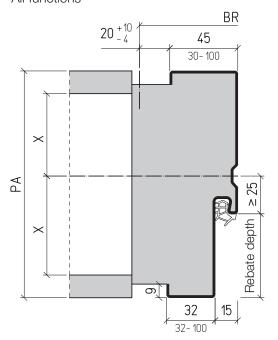
5.4

Steel frames

Steel block frames, screw fastening

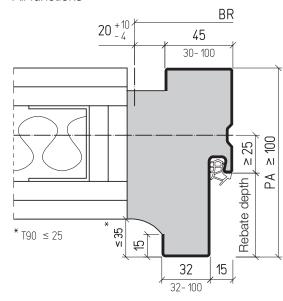
Concrete, masonry

All functions



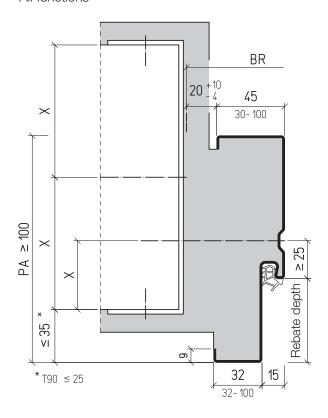
Gypsum plasterboard wall

All functions



Gasblock concrete

All functions



0 R

Schörghuber

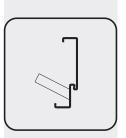
X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight

≥ 75,0 mm

Gasblock concrete RS



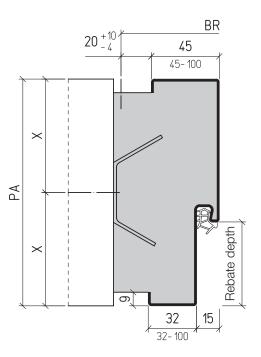
Frames

Steel frames

Steel block frames, propeller anchor fastening

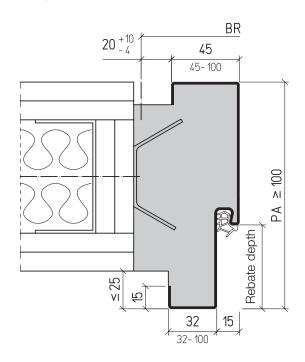
Concrete, masonry

T 30, RS and SD



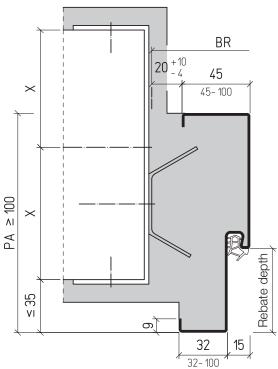
Gypsum plasterboard wall

T 30, RS and SD



Gasblock concrete

T 30, RS and SD





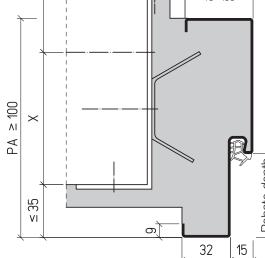
X-Measure

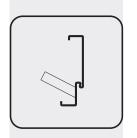
Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm





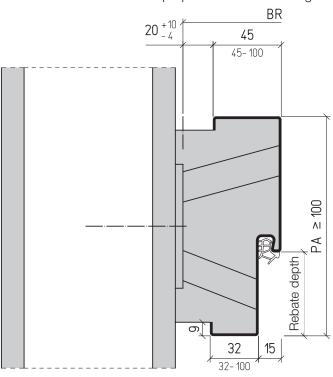


Steel frames

Steel block frames as installation in hallways

Concrete, masonry and gasblock concrete

All functions in weld anchor fastening, also available as screw and propeller anchor fastening¹⁾

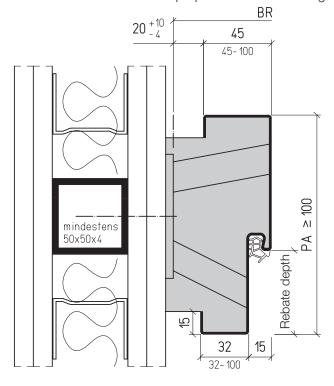


Note!

Allow enough space for handles and door closer.

Gypsum plasterboard wall

T 30, RS and SD in weld anchor fastening, also available as screw and propeller anchor fastening¹⁾



¹⁾ Propeller anchor not availabe for T 90 and WK

X-Measure

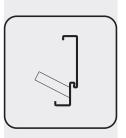
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm



Schörghuber



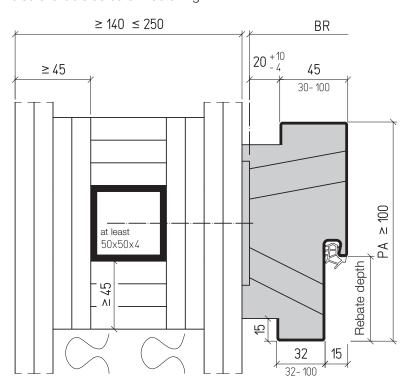
Frames

Steel frames

Steel block frames as installation in hallways

Gypsum plasterboard wall

T 90 in weld anchor fastening, also available as screw fastening



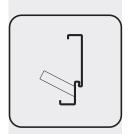
Note!

Allow enough space for handles and door closer.

X-Measure

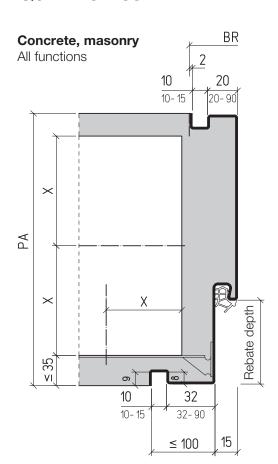
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm

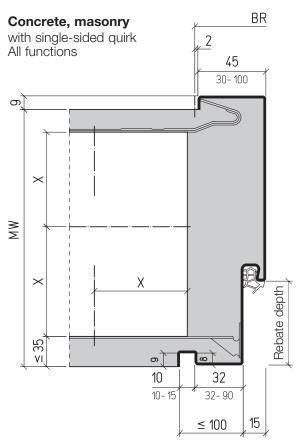




Steel frames

Quirk frames

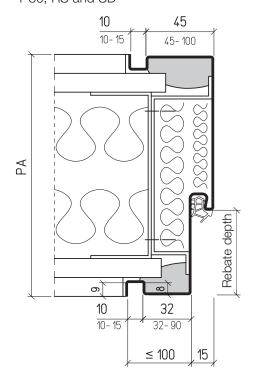




5.5

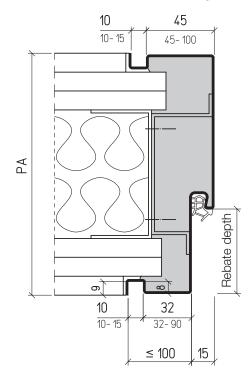
Gypsum plasterboard wall

T 30, RS and SD



Gypsum plasterboard wall

T 90 with additional wall panelling





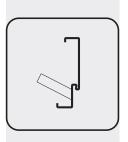
X-Measure

Concrete, masonry Gasblock concrete T 30, T 90 ≥ 87,5 mm

 \geq 50,0 mm

Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm

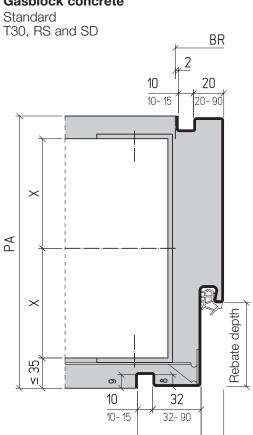


Frames

Steel frames

Quirk frames

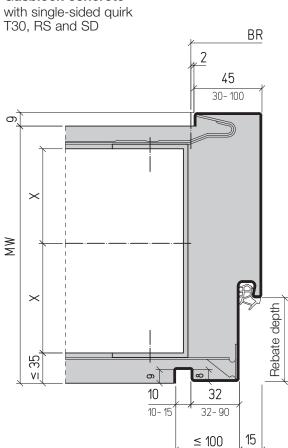
Gasblock concrete



15

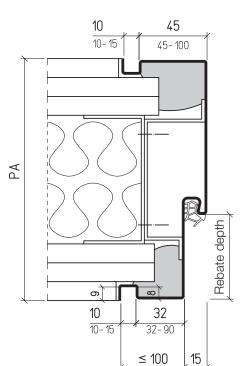
≤ 100

Gasblock concrete

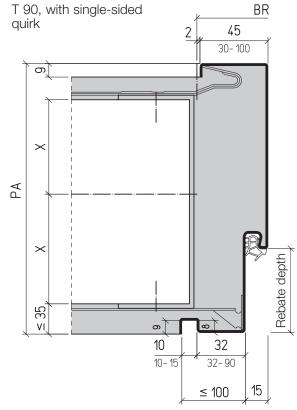


Gypsum plasterboard wall

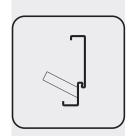
T 30, RS and SD with additional wall panelling



Gasblock concrete





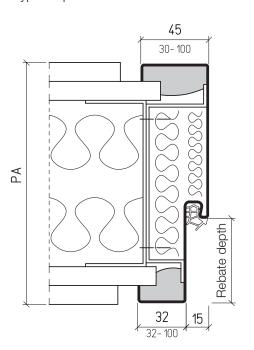


Steel frames

Steel wrap-around frames, on site constructed quirk

Gypsum plasterboard wall

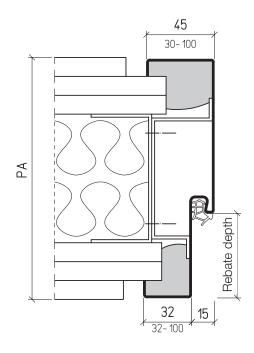
T 30, RS and SD Gypsum plasterboard wall



Gypsum plasterboard wall

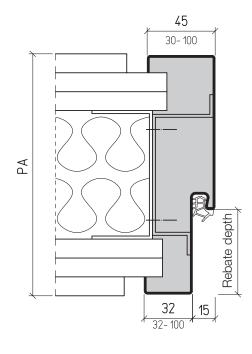
T 30, RS and SD with additional wall panelling

5.5



Gypsum plasterboard wall

T 90 with additional wall panelling





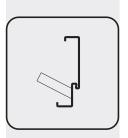
Schörghuber

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm

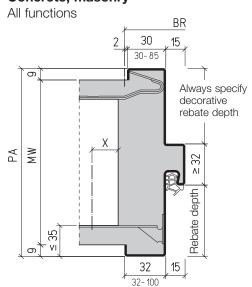


Frames

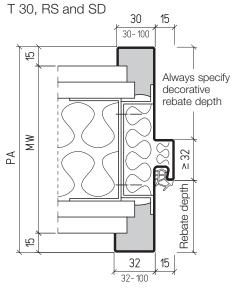
Steel frames

Decorative rebated frames

Concrete, masonry



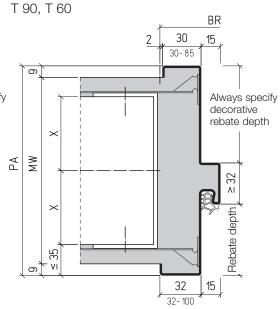
Gypsum plasterboard wall



Gasblock concrete

T 30, RS and SD BR 30 15 30-85 Always specify decorative rebate depth РА ≥ 32 ۷I 32-100

Gasblock concrete



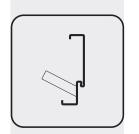


X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight ≥ 75,0 mm

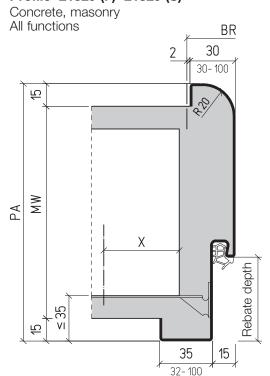
Gasblock concrete RS



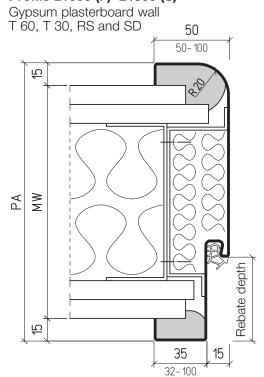
Steel frames

Round-shaped frames

Profile 21329 (F) 21829 (S)



Profile 21306 (F) 21806 (S)



5.6

Profile 21329 (F) 21829 (S)

Gasblock concrete T 30, RS and SD BR 30 30-100 Ŋ <u>≽</u> ⊻ Rebate depth Ŋ 35 15 32-100

Profile 21306 (F) 21806 (S)

Gypsum plasterboard wall 50 50-100 Ð 200 <u>≫</u> Rebate depth $\overline{\nabla}$ 15 35 32-100

0 R

Schörghuber

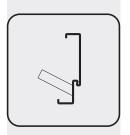
- (F) Rebated
- (S) Unrebated

X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm



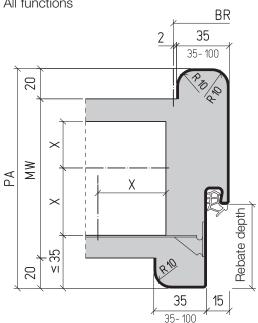
Frames

Steel frames

Round-shaped frames

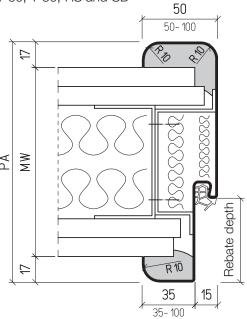
Profile 21308 (F) 21808 (S)

Concrete, masonry All functions



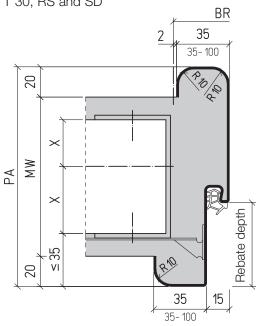
Profile 21309 (F) 21809 (S)

Gypsum plasterboard wall T 60, T 30, RS and SD



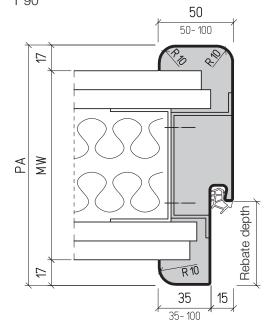
Profile 21308 (F) 21808 (S)

Gasblock concrete T 30, RS and SD



Profile 21309 (F) 21809 (S)

Gypsum plasterboard wall





(F) Rebated

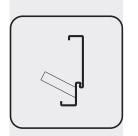
(S) Unrebated

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm

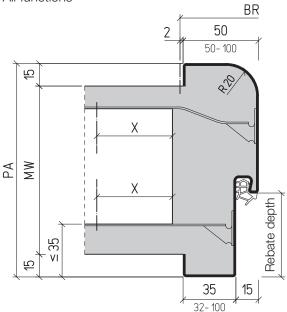


Steel frames

Round-shaped frames

Profile 21330 (F) 21830 (S)

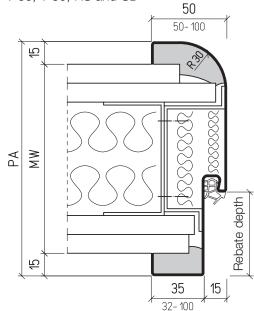
Concrete, masonry All functions



Profile 21330 (F) 21830 (S)

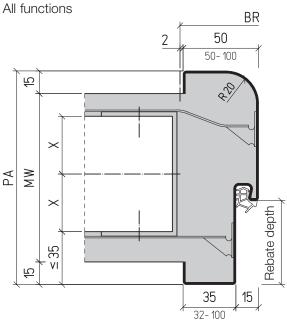
5.6

Gypsum plasterboard wall T 60, T 30, RS and SD



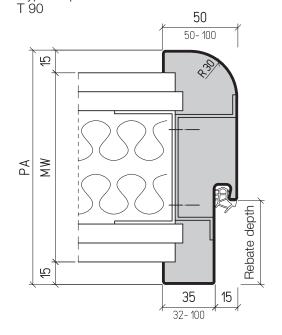
Profile 21330 (F) 21830 (S)

Gasblock concrete



Profile 21330 (F) 21830 (S)

Gypsum plasterboard wall





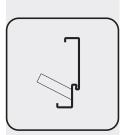
(F) Rebated

(S) Unrebated

X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm

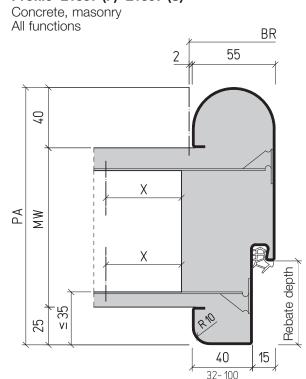


Frames

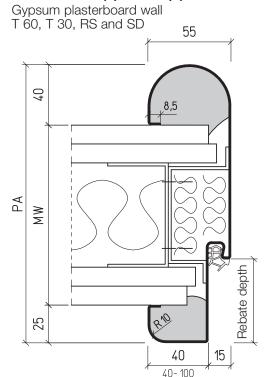
Steel frames

Round-shaped frames

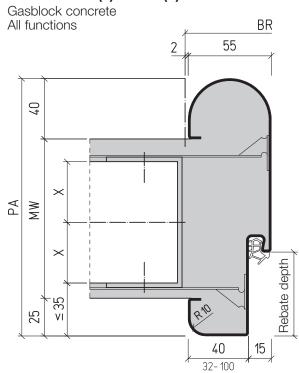
Profile 21337 (F) 21837 (S)



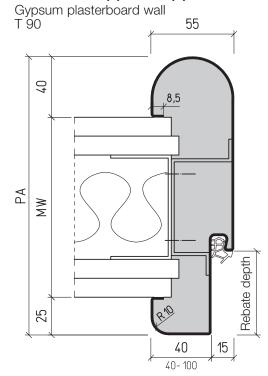
Profile 21337 (F) 21837 (S)



Profile 21337 (F) 21837 (S)



Profile 21337 (F) 21837 (S)





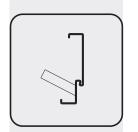
- (F) Rebated
- (S) Unrebated

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

Gasblock concrete RS up to 100 kg door weight \geq 75,0 mm

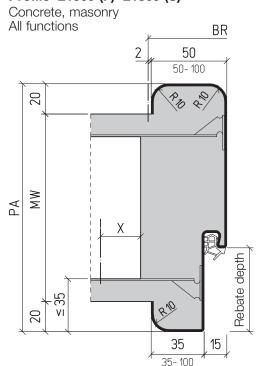
595



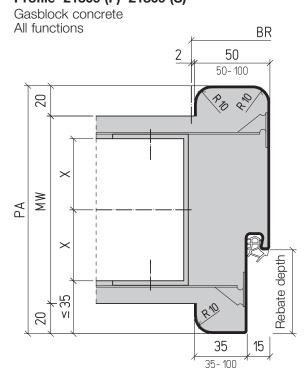
Steel frames

Round-shaped frames

Profile 21309 (F) 21809 (S)

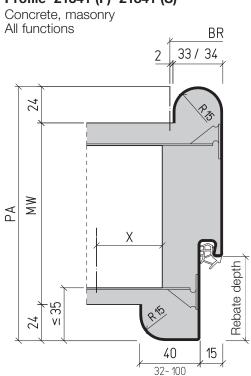


Profile 21309 (F) 21809 (S)

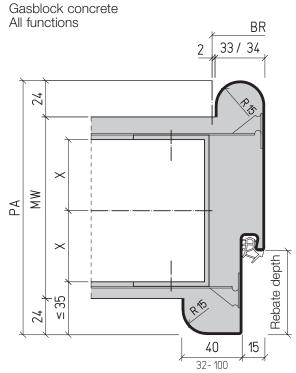


5.6

Profile 21341 (F) 21841 (S)



Profile 21341 (F) 21841 (S)





(F) Rebated

(S) Unrebated

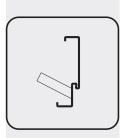
596

X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight Gasblock concrete RS

≥ 75,0 mm



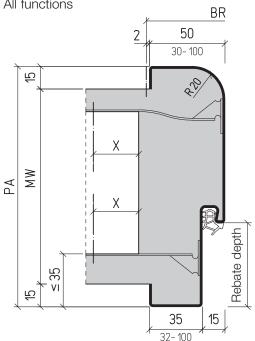
Frames

Steel frames

Round-shaped frames

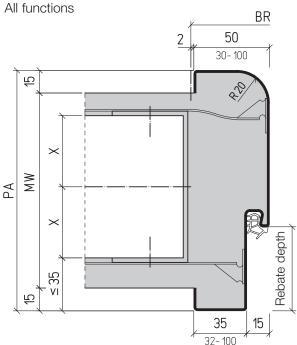
Profile 21306 (F) 21806 (S)

Concrete, masonry All functions



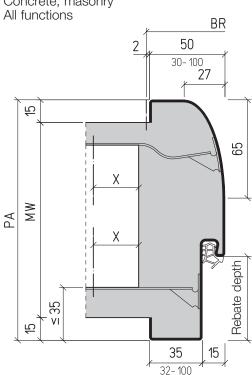
Profile 21306 (F) 21806 (S)

Gasblock concrete



Profile 21332 (F) 21832 (S)

Concrete, masonry



Profile 21332 (F) 21832 (S)

Gasblock concrete

All functions BR 50 2 30-100 27 ठ 65 <u>≫</u> РА Rebate depth 5 35 15



- (F) Rebated
- (S) Unrebated

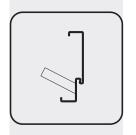
X-Measure

≥ 50,0 mm Concrete, masonry Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight

32-100

Gasblock concrete RS ≥ 75,0 mm

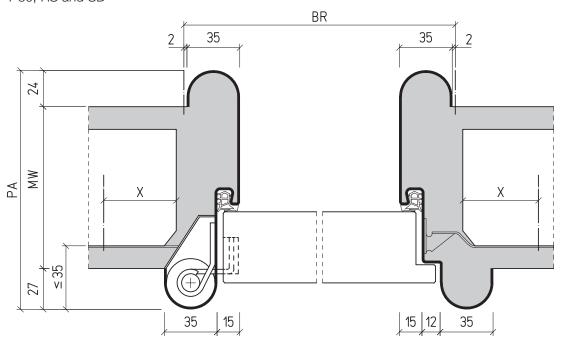


Steel frames

Round-shaped frames

Profile 29304 (1-leaf door)

Concrete, masonry, gasblock concrete 1) T 30, RS and SD



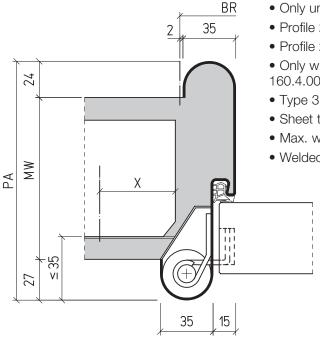
Note!

1-leaf door configuration

Rebated edge on lock side

Profile 29804 (2-leaf door)

Concrete, masonry, gasblock concrete 1) T 30, RS and SD



1) T 30 and RS with additional wall bracket

Note!

- Only unrebated
- Profile 29304 1-leaf door, rebated edge on lock side

5.6

- Profile 29804 2-leaf door
- Only with integr. SIMONS-FORM-STUG VR 160.4.00
- Type 3 N / 4 N, 13 N / 14 N
- Sheet thickness 2 mm
- Max. weight of door leaf 80 kg
- Welded configuration

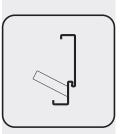
X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm

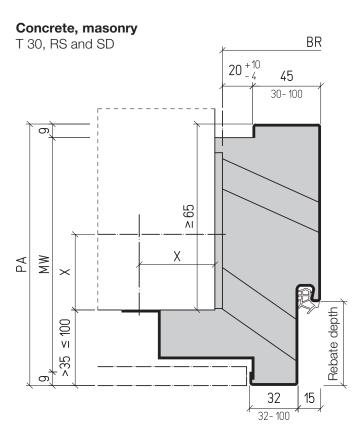


Schörghuber



Steel frames

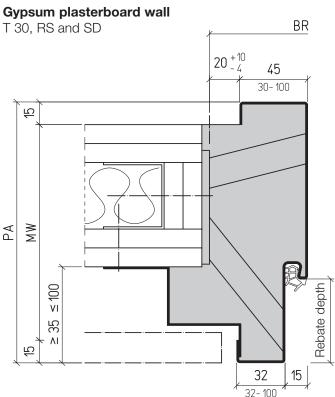
Projecting frames with weld anchor fastening



The projecting frame offers the architect the possibility to install a on site wall covering, such as panels or natural stone plankings, unrebated with the frame face on pull side.

From a projection of 35 mm up to a maximum of 100 mm (T 30 and RS) an additional mechanical fastening with the provided grouting sheet, which has to be welded to the backbend on site, is necessary.

For extremly sound-deadening doors (SD 42 and SD 48) with projecting installation a decrease of the Sound-Insulation value of about 2-3 dB is possible.



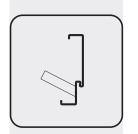
FORM NO Schörghuber

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

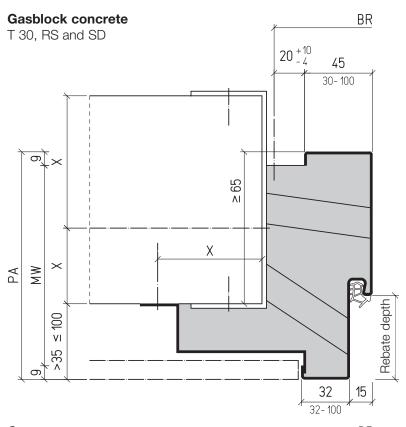
Gasblock concrete RS ≥ 75,0 mm



5.7

Steel frames

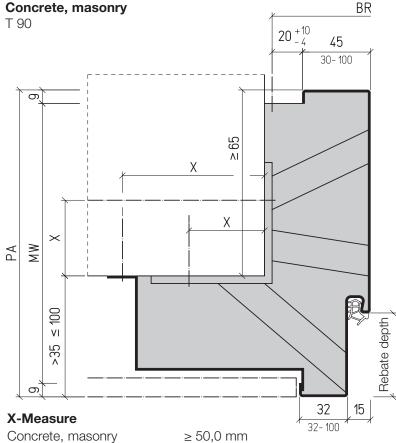
Projecting frames with weld anchor fastening



The projecting frame offers the architect the possibility to install a on site wall covering, such as panels or natural stone plankings, unrebated with the frame face on pull side.

From a projection of 35 mm up to a maximum of 100 mm (T 30 and RS) an additional mechanical fastening with the provided grouting sheet, which has to be welded to the backbend on site, is necessary.

For extremly sounddeadening doors (SD 42 and SD 48) with projecting installation a decrease of the Sound-Insulation value of about 2-3 dB is possible.



≥ 87,5 mm

≥ 75,0 mm

up to 100 kg door weight

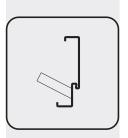




Gasblock concrete T 30

Gasblock concrete RS

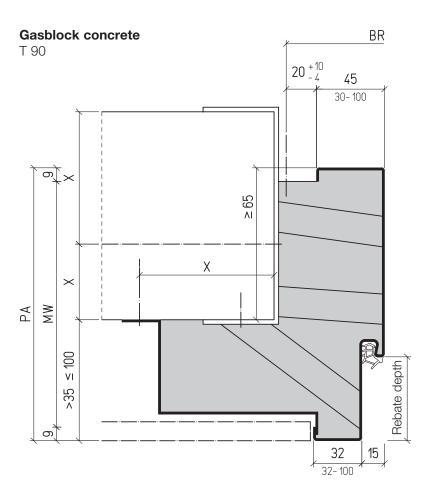
Gasblock concrete T 30, RS ≥ 57.5 mm



Frames

Steel frames

Projecting frames with weld anchor fastening



Wooden speci

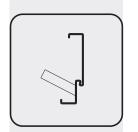


®

Schörghuber

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm

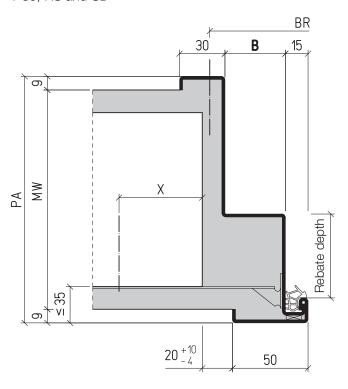


Steel frames

Sports hall frames

Concrete, masonry

T 30, RS and SD



Attention!

Check the B-Measure, it depends on the door closer option.

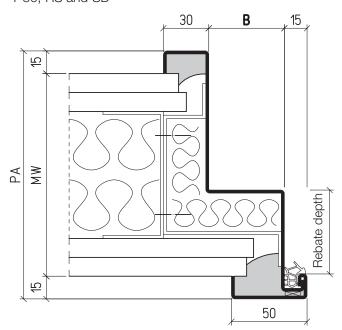
5.8

Door closer option B-Measure

BTS \geq 50 mm OTS \geq 65 mm ITS 96 \geq 30 mm ITS 96 EMF/EMR \geq 50 mm

Gypsum plasterboard wall

T 30, RS and SD





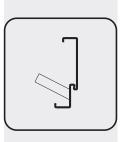
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm



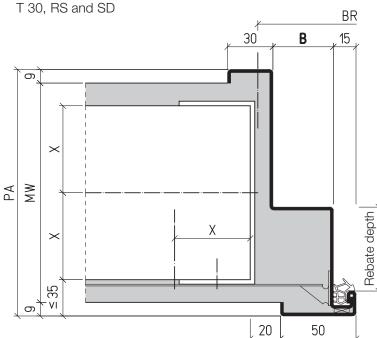
BTS = floor-mounted door closer OTS = surface mounted door closer ITS = integrated door closer



Steel frames

Sports hall frames

Gasblock concrete



Attention!

Check the B-Measure, it depends on the door closer option.

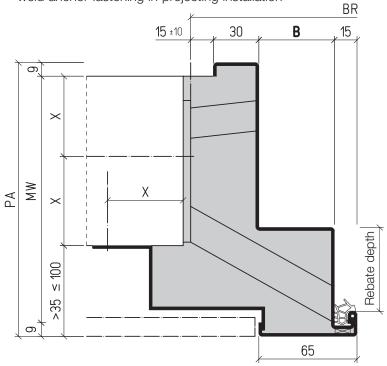
5.8

Door closer option B-Measure

BTS \geq 50 mm OTS \geq 65 mm ITS 96 \geq 30 mm ITS 96 EMF/EMR \geq 50 mm

Concrete, masonry

T 30, RS and SD weld anchor fastening in projecting installation





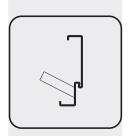
BTS = floor-mounted door closer OTS = surface mounted door closer ITS = integrated door closer

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm

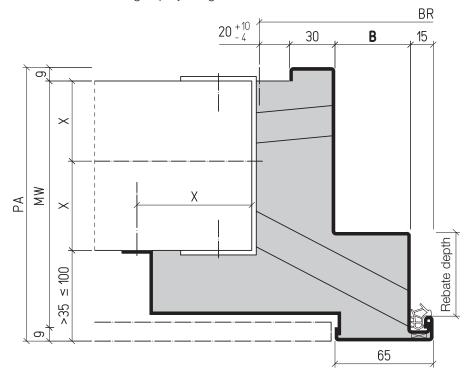


Steel frames

Sports hall frames

Gasblock concrete

T 30, RS and SD weld anchor fastening in projecting installation



Attention!

Check the B-Measure, it depends on the door closer option.

Door closer option B-Measure

BTS \geq 50 mm OTS \geq 65 mm ITS 96 \geq 30 mm ITS 96 EMF/EMR \geq 50 mm



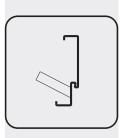


Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

5.8

Gasblock concrete RS ≥ 75,0 mm



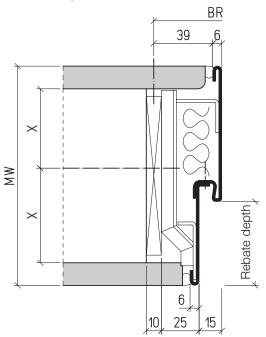
Frames

Steel frames

Fineline frames

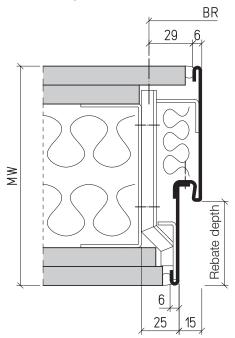
Concrete, masonry

T 30, RS and SD max. 120 kg



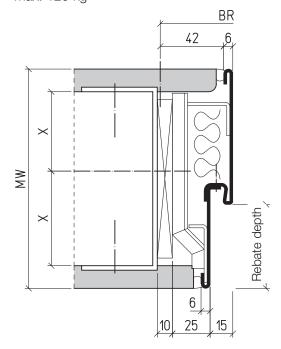
Gypsum plasterboard wall

T 30, RS and SD max. 120 kg



Gasblock concrete

T 30, RS and SD max. 120 kg



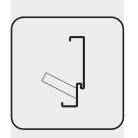


X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm up to 100 kg door weight

Gasblock concrete RS

 \geq 75,0 mm

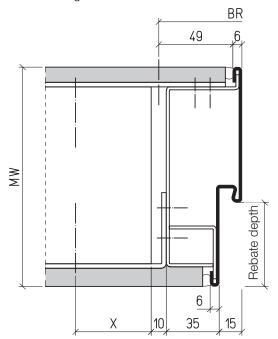


Steel frames

Fineline frames

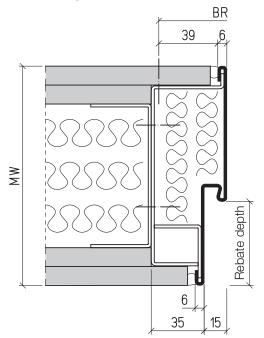
Concrete, masonry

T 30, RS and SD max. 180 kg



Gypsum plasterboard wall

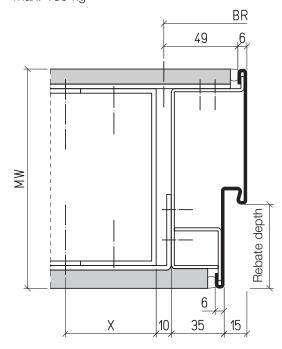
T 30, RS and SD max. 180 kg



5.9

Gasblock concrete

T 30, RS and SD max. 180 kg



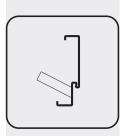


Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm



606



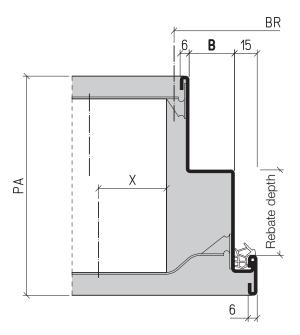
Frames

Steel frames

Fineline-Sports hall frames

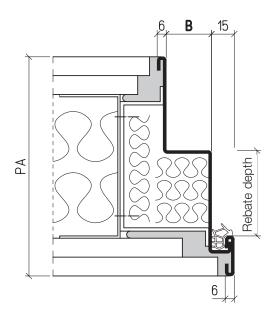
Concrete, masonry

T 30, RS and SD



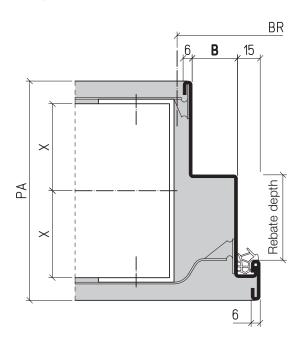
Gypsum plasterboard wall

T 30, RS and SD



Gasblock concrete

T 30, RS and SD



Attention!

Check the B-Measure, it depends on the door closer option.

Door closer option B-Measure

BTS \geq 50 mm OTS \geq 65 mm ITS 96 \geq 30 mm ITS 96 EMF/EMR \geq 50 mm



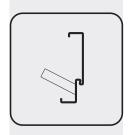
Schörghuber

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

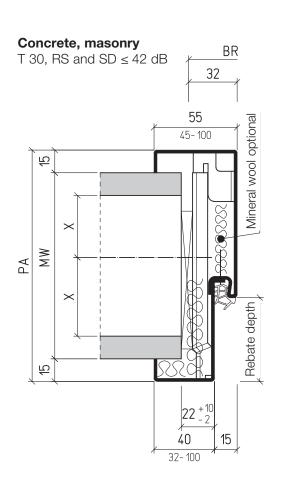
up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm



Steel frames

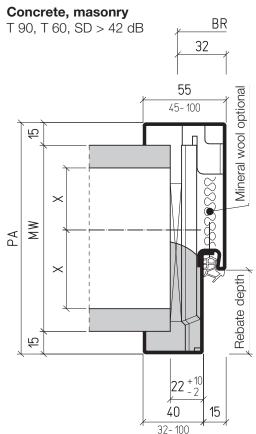
2-parted frames in trapezoid anchor fastening



The trapezoid anchor fastening is suited for the installation in a dry mortarless constuction for the installation in solid walls. Due to the missing wall thickness adjustment an accurate compliance of the wall thick-ness is essential, therefore fair-faced masonry or fair-faced concrete are advisable. The wall openings can be constructed according to DIN 18100.

The face width on pull side is by default 40 mm and on push side 55 mm, on request a face alteration from 32/45 mm up to 100/100 mm is possible. The standard sheet thickness is 2 mm, the backbends are variable from 15 mm up to 25 mm.

A wall thickness adjustment of + 10 mm up to - 5 mm is possible.



Frame cavities for door sets with T 90, T 60 or SD > 42 dB have to be filled with GKF and joint filler.

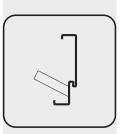
X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight Gasblock concrete RS ≥ 75,0 mm

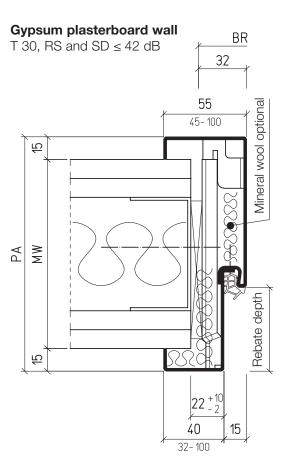


RM



Steel frames

2-parted frames in trapezoid anchor fastening



The trapezoid anchor fastening is suited for the installation in a dry mortarless constuction for the installation in gypsum plasterboard walls.

The face width on pull side is by default 40 mm and on push side 55 mm, on request a face alteration from 32/45 mm up to 100/100 mm is possible. The standard sheet thickness is 2 mm, the backbends are variable from 9 mm up to 25 mm.

A wall thickness adjustment of + 10 mm up to - 5 mm is possible.

For SD requirements an effective filling of the frame cavities is essential.

A Separation of the control of th

Frame cavities for door sets with T 90, T 60 or SD > 42 dB have to be filled with GKF and joint filler.

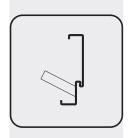


X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

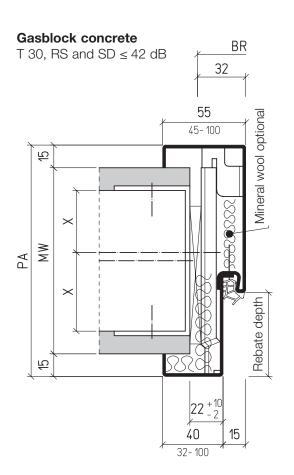
Gasblock concrete RS ≥ 75,0 mm

609



Steel frames

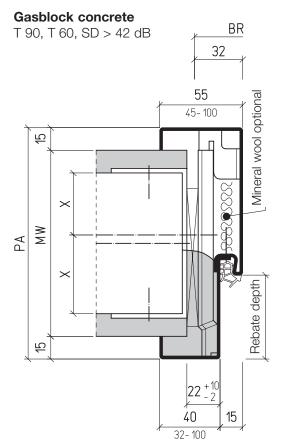
2-parted frames in trapezoid anchor fastening



The trapezoid anchor fastening is suited for the installation in a dry mortarless constuction for the installation in gasblock concrete walls. Due to the missing wall thickness adjustment an accurate compliance of the wall thickness is essential, therefore fair-faced masonry or fair-faced concrete are advisable. The wall openings can be constructed according to DIN 18100.

The face width on pull side is by default 40 mm and on push side 55 mm, on request a face alteration from 32/45 mm up to 100/100 mm is possible. The standard sheet thickness is 2 mm, the backbends are adjustable from 9 mm up to 25 mm.

A wall thickness adjustment of + 10 mm up to - 5 mm is possible.



Frame cavities for door sets with T 90, T 60 or SD > 42 dB have to be filled with GKF and joint filler.

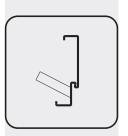
X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight Gasblock concrete RS ≥ 75,0 mm







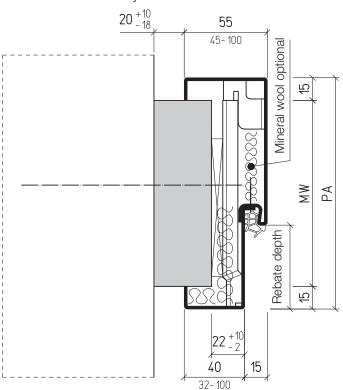
5.10

Steel frames

2-parted frames in trapezoid anchor fastening

Concrete, masonry, gasblock concrete

T30, RS and SD ≤ 42 dB as installation in hallways

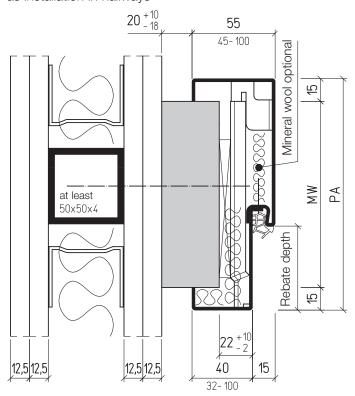


The 2-parted frame with trapezoid anchor fastening can also be used for a gypsum plaster-board wall installation on parallel walls (hallways).

The base frame must consist of materials of the construction material class A, e. g. PROMATECT H or AESTUVER.

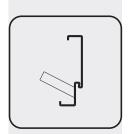
Gypsum plasterboard wall

T 30, RS and SD ≤ 42 dB as installation in hallways









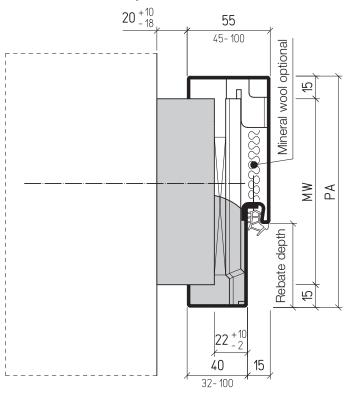
Steel frames

Installation in existing walls, 2-parted frames in trapezoid anchor fastening

Concrete, masonry, gasblock concrete

All functions

as installation in hallways

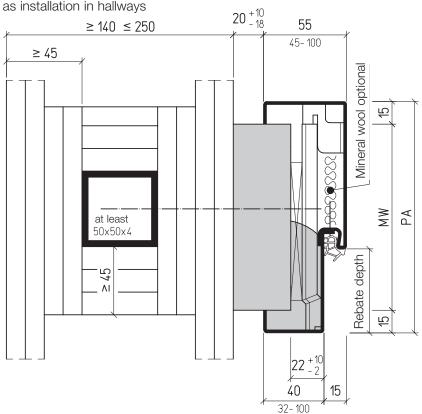


The 2-parted frame with trapezoid anchor fastening can also be used for a gypsum plaster-board wall installation on parallel walls (hallways).

The base frame must consist of materials of the construction material class A, e. g. PROMATECT H or AESTUVER.

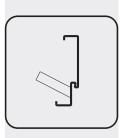
Gypsum plasterboard wall

T 90, T 60 and SD > 42 dB as installation in hallways





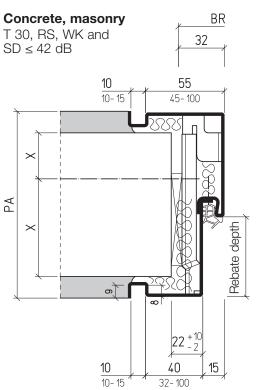
gridbe

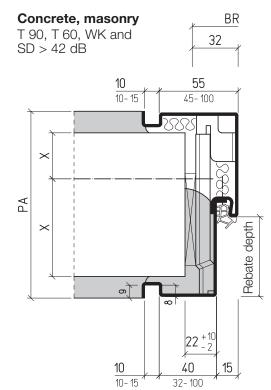


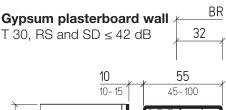
Steel frames

2-parted frames

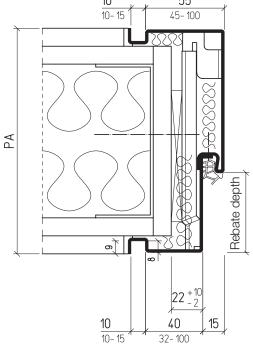
in trapezoid anchor fastening with quirk

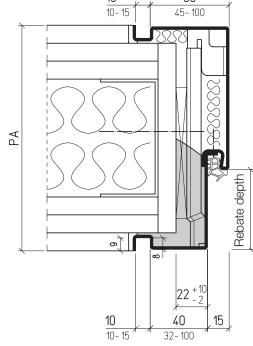












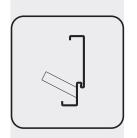


X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm

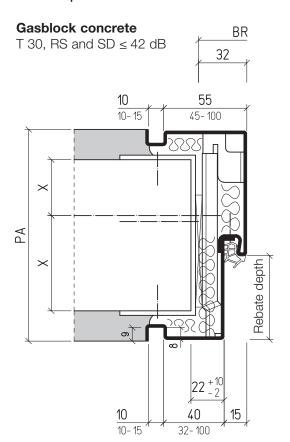
Frame cavities for door sets with T 90, T 60 or SD > 42 dB have to be filled with GKF and joint filler.

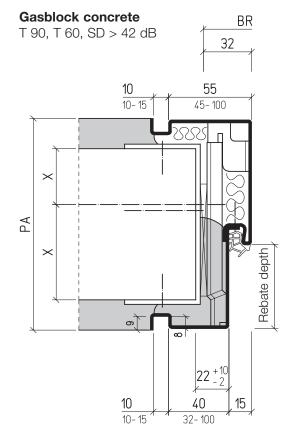


5.10

Steel frames

2-parted frames in trapezoid anchor fastening with quirk





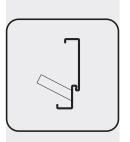
Frame cavities for door sets with T 90, T 60 or SD > 42 dB have to be filled with GKF and joint filler.



X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight Gasblock concrete RS \Rightarrow 75,0 mm



Steel frames

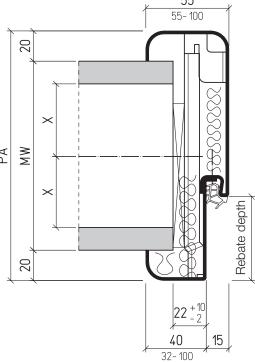
2-parted frames in trapezoid anchor fastening as round-shaped frames

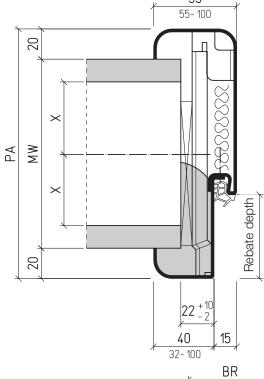
Profile 99146
Concrete, masonry
T 30, RS and SD ≤ 42 dB

55
55-100





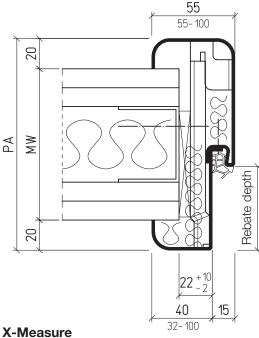


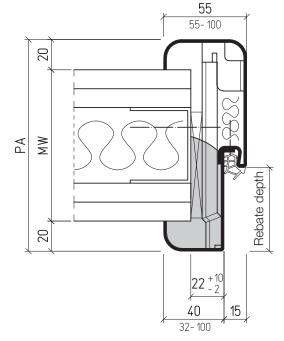


Profile 99146
Gypsum plasterboard wall
T 30, RS and SD ≤ 42 dB

32









Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

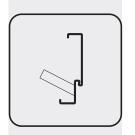
Gasblock concrete RS

up to 100 kg door weight

≥ 75,0 mm

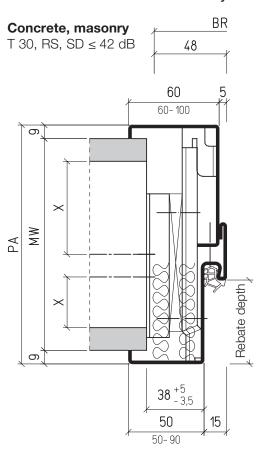
Frame cavities for door sets with T 90, T 60 or SD > 42 dB have to be filled with GKF and joint filler.





Steel frames

2-parted frames in adapter fastening with wall thickness adjustment

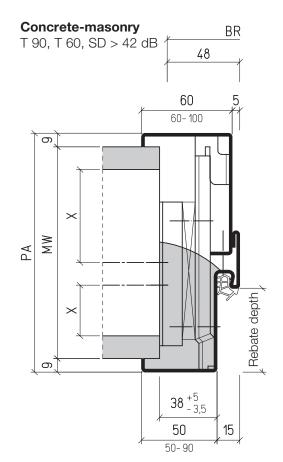


This 2-parted frame gives the architect the option of installing a door set with top panel in existing walls, on request also with transom and fanlight. The only exception is the T 90 door set, which can not be ordered with top panel. Steel frames with adapter fastening are especially suited for the **installation in a dry mortarless constuction**.

The face width on pull side is by default 50 mm and 60 mm on push side. Furthermore a face expansion of up to 100/100 mm is possible. Additionally the round-shaped frame profile 99142 (optionally rebated or unrebated) with adapter fastening is available.

A wall thickness adjustment ranging from + 10 mm up to - 5 mm is possible. The standard sheet thickness is 2 mm, the backbends are adjustable from 9 mm up to 25 mm.

Due to the special fastening minor deviations from the norm door leaf dimensions occur.



Frame cavities for door sets with T 90, T 60 or SD > 42 dB have to be filled with GKF and joint filler.



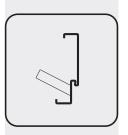
Schörghuber

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

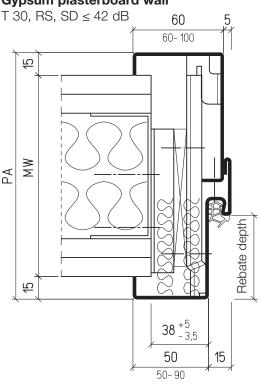
Gasblock concrete RS ≥ 75,0 mm



Steel frames

2-parted frames in adapter fastening with wall thickness adjustment

Gypsum plasterboard wall



This 2-parted frame gives the architect the option of installing a door set with top panel in existing walls, on request also with transom and fanlight. The only exception is the T 90 door set, which can not be ordered with top panel. Steel frames with adapter fastening are especially suited for the **installation in a dry mortarless constuction**.

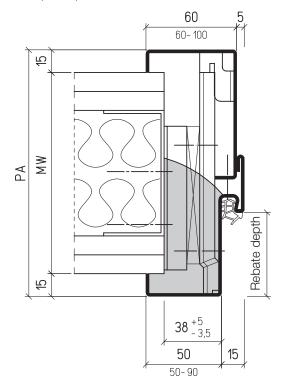
The face width on pull side is by default 50 mm and 60 mm on push side. Furthermore a face expansion of up to 100/100 mm is possible. Additionally the round-shaped frame profile 99142 (optionally rebated or unrebated) with adapter fastening is available.

A wall thickness adjustment ranging from + 10 mm up to - 5 mm is possible. The standard sheet thickness is 2 mm, the backbends are adjustable from 9 mm up to 25 mm.

Due to the special fastening minor deviations from the norm door leaf dimensions occur.

Gypsum plasterboard wall

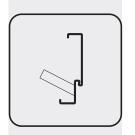
T 90, T 60, SD > 42 dB



Frame cavities for door sets with T 90, T 60 or SD > 42 dB have to be filled with GKF and joint filler.

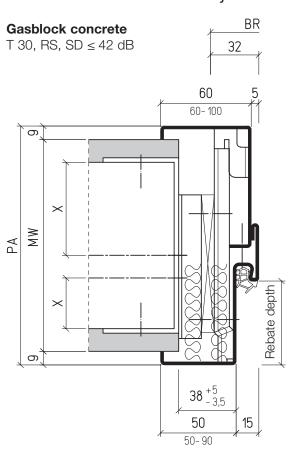


Schörghuber



Steel frames

2-parted frames in adapter fastening with wall thickness adjustment

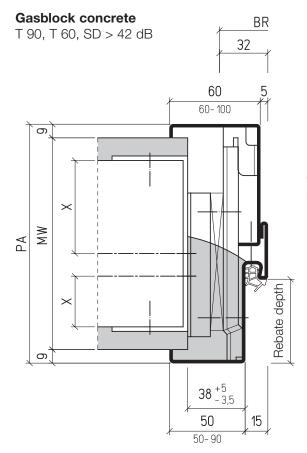


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A wall thickness adjustment ranging from + 10 mm up to - 5 mm is possible. The standard sheet thickness is 2 mm, the backbends are adjustable from 9 mm up to 25 mm.

Due to the special fastening minor deviations from the norm door leaf dimensions occur.



Frame cavities for door sets with T 90, T 60 or SD > 42 dB have to be filled with GKF and joint filler.



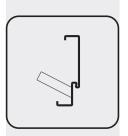
Schörghuber

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight Gasblock concrete RS ≥ 75,0 mm

618

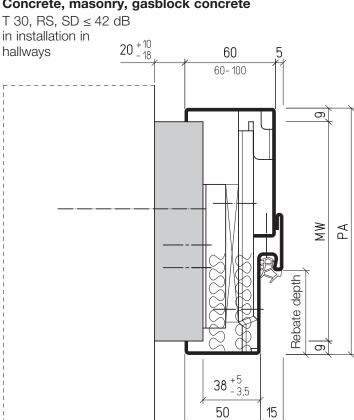


5.10 Frames

Steel frames

Installation in existing walls, 2-parted frames in adapter fastening

Concrete, masonry, gasblock concrete

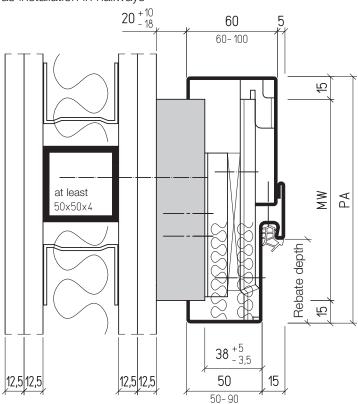


The 2-parted frame with adapter fastening can also be used for a gypsum plasterboard wall installation on parallel walls (hallways).

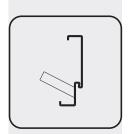
The base frame must consist of materials of the construction material class A, e.g. PRO-MATECT H or AESTUVER.

Gypsum plasterboard wall

T 30 RS, SD ≤ 42 dB as installation in hallways





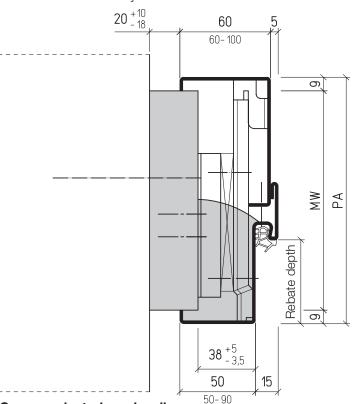


Steel frames

Installation in existing walls, 2-parted frames in adapter fastening

Concrete, masonry, gasblock concrete

T 90, SD > 42 dB as installation in hallways



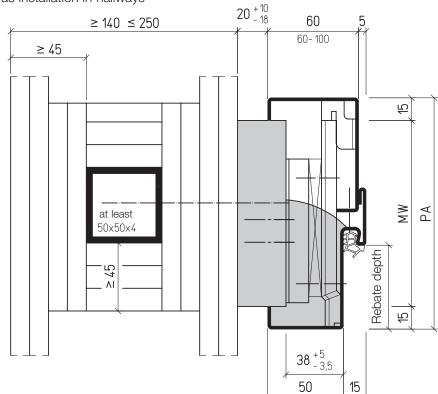
The 2-parted frame with adapter fastening can also be used for a gypsum plasterboard wall installation on parallel walls (hallways).

5.10

The base frame must consist of materials of the construction material class A, e.g. PRO-MATECT H or AESTUVER.

Gypsum plasterboard wall

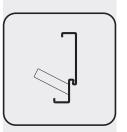
T 90, SD > 42 dB as installation in hallways



50-90

Frame cavities for door sets with T 90 or SD requirements have to be filled with GKF and joint filler.





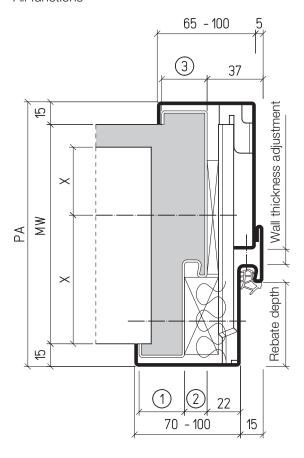
Frames

Steel frames

2-parted frame as reconstruction frame

Concrete, masonry and Gasblock concrete

All functions



Calculation scheme for face widths Pull side

Face width, old frame ①	mm
+ Rebate width, old frame ②	mm
+ Requested tolerance	3 mm
+ Material thickness of the frame	2 mm
+ System dimension	22 mm
= Face width, pull side	mm

Push side

Face width, old frame 3	mm
+ Requested tolerance	3 mm
+ Material thickness of the frame	2 mm
+ System dimension	32 mm

= Face width, push side __ mm

This 2-parted frame option offers a solution to the problem of installaing a functunal door set (T 30, T 90, RS, SD etc.) over an already installed steel frame (the frame cavities must be completely filled with mortar). Therefore a Schörghuber door set (function according to requirements) can be installed in the course of a reconstruction, without the need to remove the old frame. The face widths are dependent on the structural situation (frame dimensions). The backbend is adjustable from 15 mm up to 25 mm.

A wall thickness adjustment ranging from +10 mm up to -5 mm allows an adaptation to the tolerances on site.

Following details are required for the ordering:

- Clear opening of the old frame
- Face width of push and pull side
- Rebate width of the old frame
- Backbend of the old frame
- Overall frame depth

Calculation scheme for the frame LD Width

LD-dimension, old frame	mm
- Subtraction value	74 mm
= LD-dimension, new frame	mm

Height

Height	
LD-dimension, old frame - Subtraction value	mm 37 mm
= LD-dimension, new frame	mm



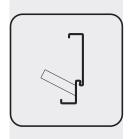
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm



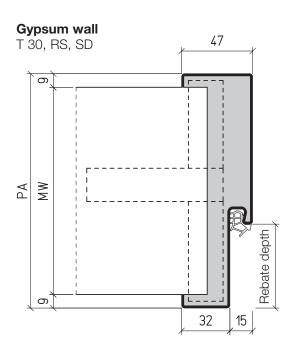
Frame cavities for door sets with T 90, T 60 or SD > 42 dB have to be filled with GKF and joint filler.



5.12

Steel frames

Slide anchor fastening

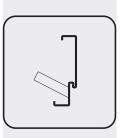


The installation of the frame has to take place during the erection of the wall. The steel frames for solid gypsum walls (thickness 80 mm, 100 mm and 120 mm) are equipped with slide anchors, which have to be aligned with the joints of the structural panels during the installation. Frame and wall have to be reinforced above the lintel with round bar steel and groove bands. The frame cavities on three sides have to be filled with joint filler, the cavities of the upper cross piece have to be filled with mineral fibre combined with joint filler (construction material class A).

Depending on the function the models 3.00 VS / 3.10 VS as well as the models 4.00 VS / 4.10 VS (not T 30) are adequate for the installation in solid gypsum walls.



622



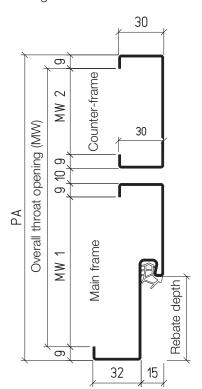
Frames

Steel frames

Expansion joint frames

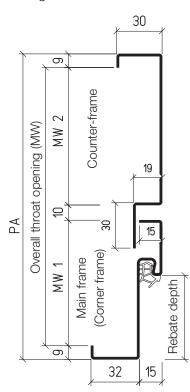
Concrete, masonry, gasblock concrete or gypsum plasterboard wall

Configuration A



Concrete, masonry, gasblock concrete or gypsum plasterboard wall

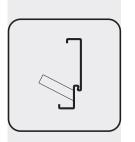
Configuration B



Expansion joint frames are required for thick walls or for expansion joints. Adding a counter-frame to a steel wrap-around frame or corner frame is recommended if for example the wall thickness exceeds 555 mm or if two walls adjoin.

The exact information about the dimensions of the throat openings of the main frame (MW 1) and the counter-frame (MW 2) in consideration of the backbends and the expansion joint are indispensable for a correct fabrication.





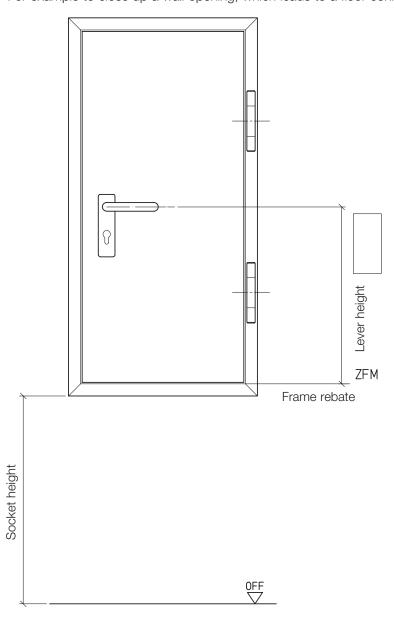
Steel frames

4-sided, flaps

Application range:

For example to close up a wall opening, which leads to a floor connecting shaft.

5.14



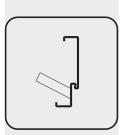
Flaps can be inserted without limitation of the socket height.

These models are available as approved flaps:

1-leaf door 3 N, 13 N, 16 N, 5 N and 25 N

2-leaf door 4 N, 26 N, 6 N and 27 N





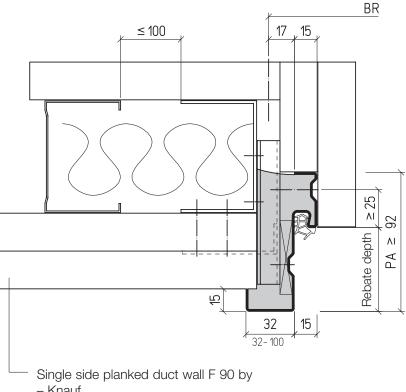
Frames

Steel frames

T30 flaps for single side planked duct walls F90

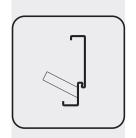
Steel corner frame

T 30, RS and SD \leq 37 dB Duct walls F 90



- Knauf
- Ridurit

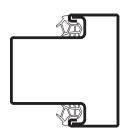




Steel frames

Transom

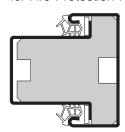
2-parted configuration



Configuration

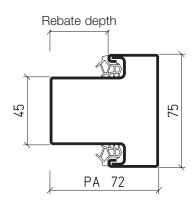
for Fire-Protection-Function

5.16



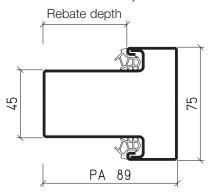
Standard

Door leaf thickness 50 mm, rebated



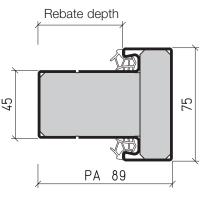
Standard

Door leaf thickness 50 mm, unrebated Door leaf thickness 70 mm, rebated or unrebated with jamb rebate



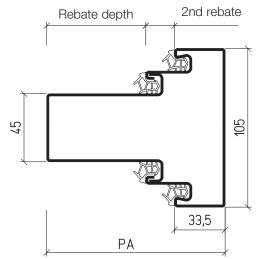
Standard T 90

Door leaf thickness 70 mm, rebated or unrebated with jamb rebate, with fanlight only

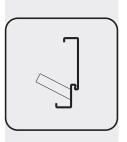


Standard

Door leaf thickness 110 mm, Type 10 N/20 N, rebated or unrebated with double-rebated jamb







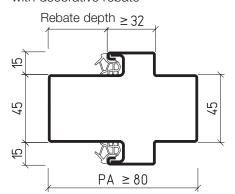
Frames

Steel frames

Transom

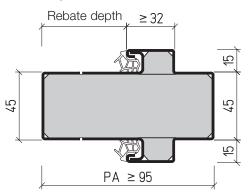
Jamb deep configuration

with decorative rebate



Jamb deep configuration for T 90

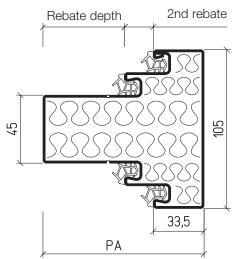
with fanlight only



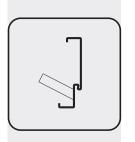
Double-rebated frame

Rw,P 42 dB

Door leaf thickness 70 mm, unrebated with jamb rebate







5.17

Wooden frames

General information

Wooden wrap-around frames

The throat opening of the wooden wrap-around frame is adjustable, the wall thickness adjustment ranges from + 10 mm to - 5 mm (SEZ Wooden frame + 5 mm / - 5 mm). If the throat opening exeeds 440 mm (270 mm for T 90) the wooden wrap-around frame is parted using a groove and tongue connection. The joint width is 4 mm. The architrave width is by default 60 mm, on both pull and push side. On request it can be ordered with up to 100 mm (SEZ-Wooden frame only with 35 mm or 50 mm). Wooden wrap-around frames are also available in Softline configuration.

Wooden block frames

Dimensions, such as the overall frame depth (PA) and the architrave width can be manufactured according to the requirements on site (wall thickness). The architrave width on pull side is by default 45 mm, 60 mm on push side. The maximum architrave width is 85/100 mm. Wooden block frames especially fit for the installation in hallways and for the installation in exposed masonry or exposed concrete walls. But the wooden block frame is of course also available as standard installation in solid and gypsum plasterboard walls.

Solid wooden frames

The solid wooden frame width is by default 70 mm, the solid wooden frame depth 73 mm, respectively 95 mm (in unrebated configuration with jamb rebate and Rw,P 42 dB requirements), in combination with the models $3\,\text{N}/4\,\text{N}$, $13\,\text{N}/14\,\text{N}$ also with 54 mm. The solid wooden frame width is possible from 50 mm up to 250 mm. Solid wooden frames are suitable not only in standard installation but also in installation in front of the wall opening or in projecting installation (up to 100 mm). Also wall anchor fastening and screw anchor fastening are possible.

Surfaces

Wooden frames can be delivered either with undercoating foil for on site coating or veneered matching the door leaf surface. Like the door leafs they are transparent or colour coated, matching the door leaf. For on site staining or coating, the frame can also be delivered raw, rough-grinded.

If the door leaf is HPL-laminated, the wooden wrap-around frames and the wooden block frames are by default HPL-laminated as well.

Solid wooden frames are veenered on the visible surface matching the door leaf surface (or on request HPL-laminated), even though the wood used for the production is chosen according to the colour of the veneer. The wood used for the production of solid wooden frames is depending on the type of wood also available in lamellar configuration.

Installation / mounting

By default wooden frames are mounted with a screw fastening. The therefore required dowels and screws have to be supplied on site. Depending on the door function the frames are delivered with the necessary pilot holes.

All wooden frames produced by Schörghuber are by default equipped with 3D hinge bases, which guarantee a perfect adjustability at all times.

In addition to the mechanical fastening the cavities of the wooden wrap-around frames can be either stuffed with mineral wool (construction material class A) or filled completely with two-component foam (except T 90). The cavities of wooden block frames and solid wooden frames have to be, depending on the function, stuffed with mineral wool (construction material class A) and the joint has to be sealed with permanent elastic material (e.g. silicone). Alternatively, under certain circumstances, the frame cavities can be filled completely with two-component PU-foam. Wooden block frames and solid wooden frames with screw anchor fastening require additional wall brackets for the installation in gasblock concrete walls. The supplied installation manual has to be followed during the mounting of the frame!

Floor recess

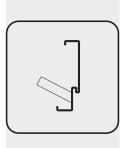
In general wooden frames are delivered without floor recess that means they are erected on the finished floor (OFF). All wooden frames are by default provided with a cutting check. If it is required by the structural situation, the core frame of the wooden wrap-around frame as well as the wooden block frame and solid wooden frame can be delivered with floor recess. If a floor-mounted door closer has to be installed, the floor recess must be 45 mm.

Special gasket

The colour of the special gaskets matches the door surface, available are the colours grey, white, beige, brown and black.







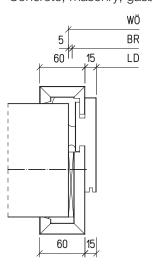
Frames

Wooden frames

Overview

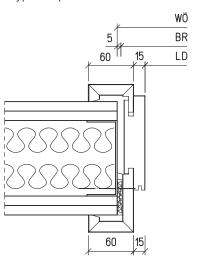
Wooden wrap-around frame

Concrete, masonry, gasblock concrete



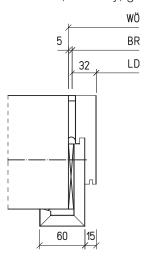
Wooden wrap-around frame

Gypsum plasterboard wall



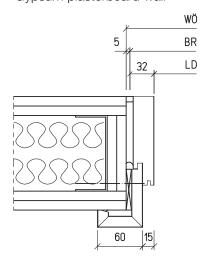
Wooden corner frame

Concrete, masonry, gasblock concrete



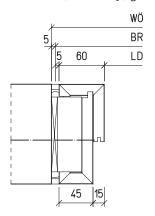
Wooden corner frame

Gypsum plasterboard wall



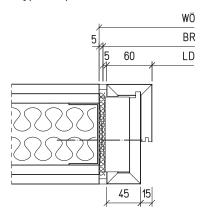
Wooden block frame

Concrete, masonry, gasblock concrete

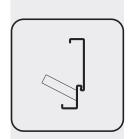


Wooden block frame

Gypsum plasterboard wall







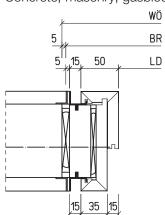
Wooden frames

Overview

Wooden block frame

Quirks

Concrete, masonry, gasblock concrete

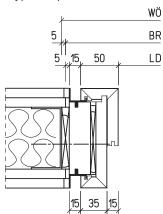


Wooden block frame

Quirks

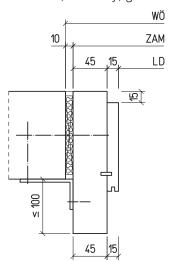
Gypsum plasterboard wall

5.17



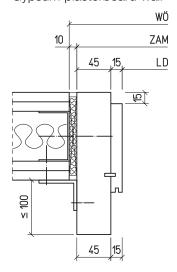
Solid wooden block frame

Concrete, masonry, gasblock concrete



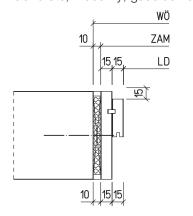
Solid wooden block frame

Gypsum plasterboard wall



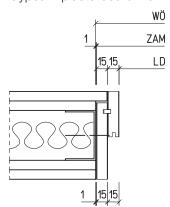
Slimline frame

Concrete, masonry, gasblock concrete

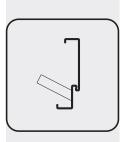


Slimline frame

Gypsum plasterboard wall







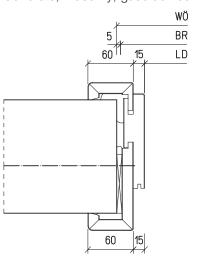
Frames

Wooden frames

Overview

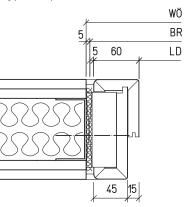
Softline wooden wrap-around frame

Concrete, masonry, gasblock concrete



Softline wooden block frame

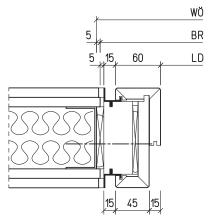
Gypsum plasterboard wall



Softline wooden block frame

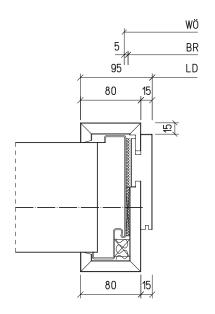
With quirk

Gypsum plasterboard wall

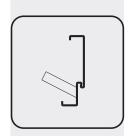


Wooden reconstruction wrap-around frame

Concrete, masonry, gasblock concrete







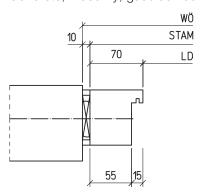
5.17

Wooden frames

Overview

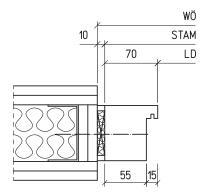
Solid wooden frame

Concrete, masonry, gasblock concrete



Solid wooden frame

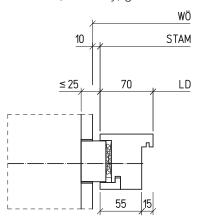
Gypsum plasterboard wall



Solid wooden frame

Quirks

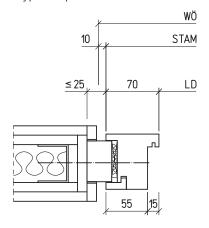
Concrete, masonry, gasblock concrete



Solid wooden frame

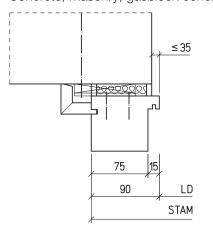
Quirks

Gypsum plasterboard wall



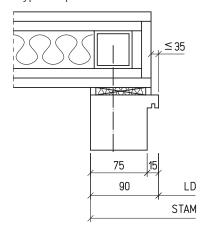
Solid wooden frame

Installation in front of the wall opening Concrete, masonry, gasblock concrete

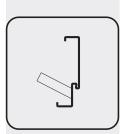


Solid wooden frame

Installation in front of the wall opening Gypsum plasterboard wall





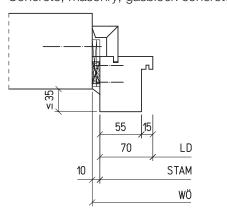


Wooden frames

Overview

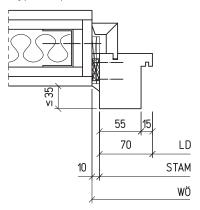
Solid wooden frame

Screw-anchor fastening Concrete, masonry, gasblock concrete



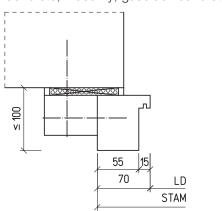
Solid wooden frame

Screw-anchor fastening Gypsum plasterboard wall



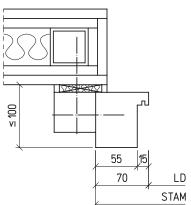
Solid wooden frame

With blind solid wooden frame Concrete, masonry, gasblock concrete

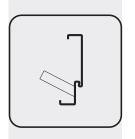


Solid wooden frame

With blind solid wooden frame Gypsum plasterboard wall



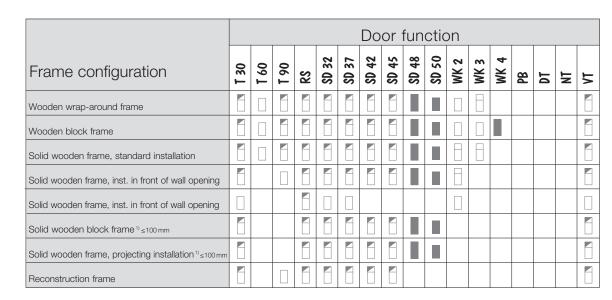




5.17

Wooden frames, solid wall

Performance overview



¹⁾ For extremly sound-deadening doors (≥ Rw,P 42 dB) with projecting installation a decrease of the Sound-Insulation value of about 2-3 dB is possible.

Possible configurations:

- = Solid core door
- = Solid core door and door with glazing
- = Solid core door and door with glazing and top panel (counter-rebated)
- = Solid core door and door with glazing and fanlight
- = Solid core door and door with glazing and top panel/fanlight
- = Solid core door with top panel

T 30 = T 30 Fire-Protection
 T 60 = T 60 Fire-Protection
 T 90 = T 90 Fire-Protection
 RS = Smoke-Protection
 SD 32 = Sound-Insulation Rw,P 32 dB

SD 32 = Sound-Insulation Rw,P 32 dB
SD 37 = Sound-Insulation Rw,P 37 dB
SD 42 = Sound-Insulation Rw,P 42 dB
SD 45 = Sound-Insulation Rw,P 45 dB

\$D 48 = Sound-Insulation Rw,P 48 dB

\$0.50 = Sound-Insulation Rw,P 50 dB

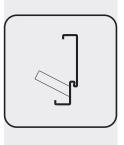
WK 2 = Burglar-Protection WK 2WK 3 = Burglar-Protection WK 3

WK 4 = Burglar-Protection WK 4PB = Radiation-Protection

DT = Bullet-Resistant M 3

NT = Wet Room VT = Solid core





5.17 Frames

Wooden frames, gypsum plasterboard wall

Performance overview

	Door function																
Frame configuration	T 30	1 60	1 90	S3	SD 32	SD 37	SD 42	SD 45	SD 48	SD 50	WK 2	WK 3	WK 4	PB	10	NT	VI
Wooden wrap-around frame																	
Wooden block frame																	
Solid wooden frame, standard installation																	
Solid wooden frame, inst. in front of wall opening																	
Solid wooden frame, inst. in front of wall opening																	
Solid wooden block frame ¹⁾ ≤100 mm																	
Solid wooden frame, projecting installation ¹¹≤100 mm																	

¹⁾ For extremly sound-deadening doors (≥ Rw,P 42 dB) with projecting installation a decrease of the Sound-Insulation value of about 2-3 dB is possible.

Possible configurations:

- = Solid core door
- = Solid core door and door with glazing
- = Solid core door and door with glazing and top panel (counter-rebated)
- = Solid core door and door with glazing and fanlight
- = Solid core door and door with glazing and top panel/fanlight
- = Solid core door with top panel

= T 30 Fire-Protection T 30

= T 60 Fire-Protection

190 = T 90 Fire-Protection

= Smoke-Protection **\$D 32** = Sound-Insulation Rw,P 32 dB

SD 37 = Sound-Insulation Rw,P 37 dB

\$D 42 = Sound-Insulation Rw,P 42 dB

\$D 45 = Sound-Insulation Rw,P 45 dB

SD 48 = Sound-Insulation Rw,P 48 dB

\$D 50 = Sound-Insulation Rw,P 50 dB

WK 2 = Burglar-Protection WK 2

WK3 = Burglar-Protection WK 3

WK 4 = Burglar-Protection WK 4

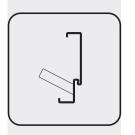
= Radiation-Protection

= Bullet-Resistant M 3 DT

NT = Wet Room

۷T = Solid core





5.17

Wooden frames, gasblock concrete

Performance overview

	Door function																
Frame configuration	T 30	1 60	1 90	S	SD 32	SD 37	SD 42	SD 45	SD 48	SD 50	WK 2	WK 3	WK 4	PB	10	N	VI
Wooden wrap-around frame																	
Wooden block frame																	
Solid wooden frame, standard installation																	
Solid wooden frame, inst. in front of wall opening																	
Solid wooden frame ,inst. in front of wall opening																	
Solid wooden block frame ¹⁾ ≤100 mm																	
Solid wooden frame-Projecting installation ¹⁾ ≤100 mm																	
Reconstruction frame																	

¹⁾ For extremly sound-deadening doors (≥ Rw,P 42 dB) with projecting installation a decrease of the Sound-Insulation value of about 2-3 dB is possible.

Possible configurations:

- = Solid core door
- = Solid core door and door with glazing
- = Solid core door and door with glazing and top panel (counter-rebated)
- = Solid core door and door with glazing and fanlight
- = Solid core door and door with glazing and top panel/fanlight
- = Solid core door with top panel

T 30 = T 30 Fire-Protection
T 60 = T 60 Fire-Protection
T 90 = T 90 Fire-Protection
RS = Smoke-Protection

SD 32 = Sound-Insulation Rw,P 32 dB
 SD 37 = Sound-Insulation Rw,P 37 dB
 SD 42 = Sound-Insulation Rw,P 42 dB
 SD 45 = Sound-Insulation Rw,P 45 dB

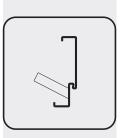
WK 2 = Burglar-Protection WK 2
WK 3 = Burglar-Protection WK 3
WK 4 = Burglar-Protection WK 4
PB = Radiation-Protection
DT = Bullet-Resistant M 3

SD 48 = Sound-Insulation Rw,P 48 dB

\$D 50 = Sound-Insulation Rw,P 50 dB

NT = Wet Room VT = Solid core





Frames

Wooden frames

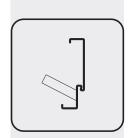


			Main	rebate	2nd rebate (in mi							
				Door leaf	•		Door leaf					
1-leaf door	Door leaf thickness	Rebated	Unrebated	Unrebated with jamb rebate	Double-rebated	Unrebated with double jamb rebate	Unrebated with jamb rebate	Double-rebated	Unrebated with double jamb rebate			
1 N	42 mm	29	47									
3 N, 13 N	50 mm	39	56									
5 N, 16 N	70 mm	56		56			22					
21 N, 8 N	70 mm	56		56			22					
17 N	70 mm				35			22				
50-1	91 mm				56			22				
80-1	91 mm				56			22				
10 N	110 mm				56	67		29	21			
25 N	73 / 95 mm	56		56	56	56	22	22	22			

			Main	rebate	2nd rebate (in mm)						
				Door leaf	f			f			
2-leaf door	Door leaf thickness	Rebated	Unrebated	Unrebated with jamb rebate	Double-rebated	Unrebated with double jamb rebate	Unrebated with jamb rebate	Double-rebated	Unrebated with double jamb rebate		
4 N, 14 N	50 mm	39	56								
6 N, 26 N	70 mm	56		56			22				
24 N	70 mm	56		56			22				
50-2	91 mm				56			22			
80-2	91 mm				56			22			
20 N	110 mm				56	67		29	21		
27 N	73 / 95 mm	56		56	56	56	22	22	22		

The additional width due to the sealant for a compressed seal is 5 mm



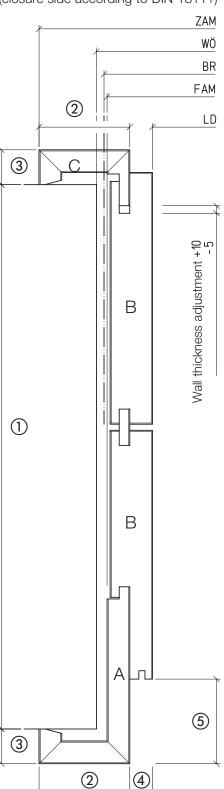


5.17

Wooden frames Technical terms

Push side (BGS)

(closure side according to DIN 18111)



- 1 Wall thickness (MW)
- 2 Architrave width
- 3 Architrave thickness
- 4 Rebate width
- S Rebate depth
- Core frame
- Jamb
- Architrave

Note!

Split jamb from MW \pm 450 mm

= pull side

BGS = push side

= wall opening

= basic dimension

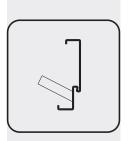
= clear opening

FAM = outer dimension of core frame

ZAM = overall frame dimension



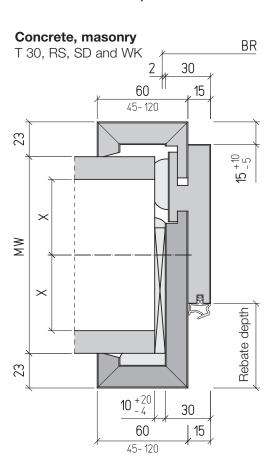
Pull side (BS) (opening side according to DIN 18111)

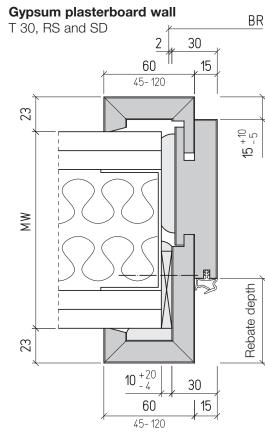


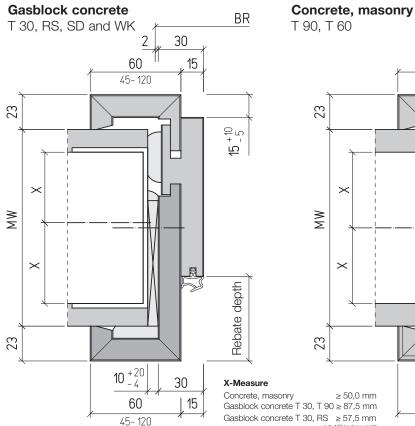
Frames

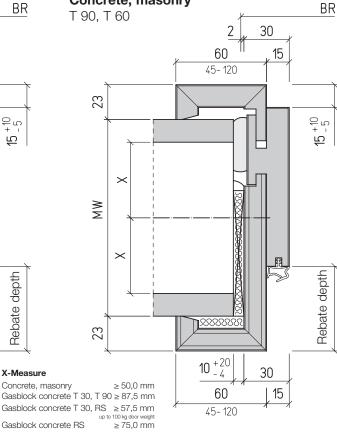
Wooden frames

Wooden wrap-around frames



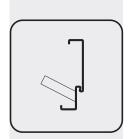






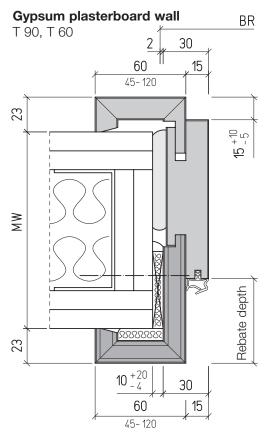


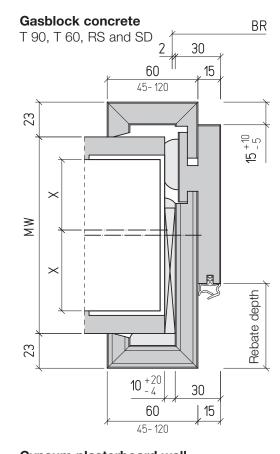
639



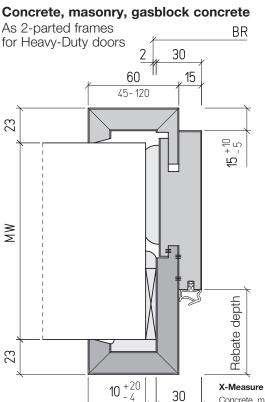
Wooden frames

Wooden wrap-around frames





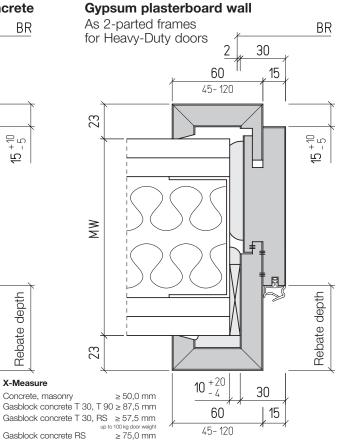
5.18



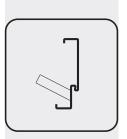
60

45-120

15



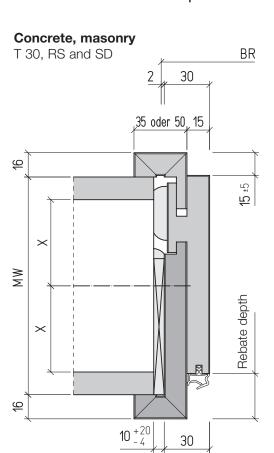


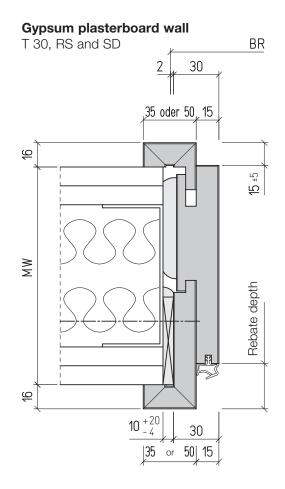


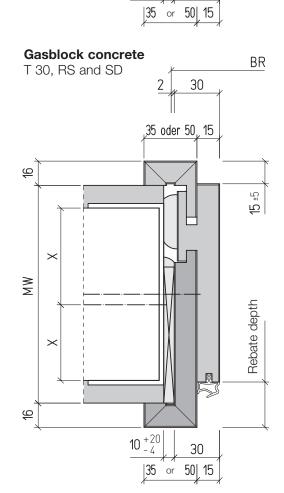
5.18

Wooden frames

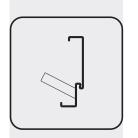
SEZ-Wooden wrap-around frames for type 1 N









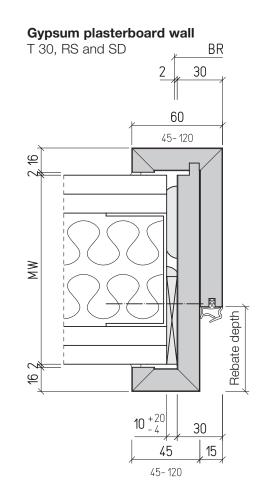


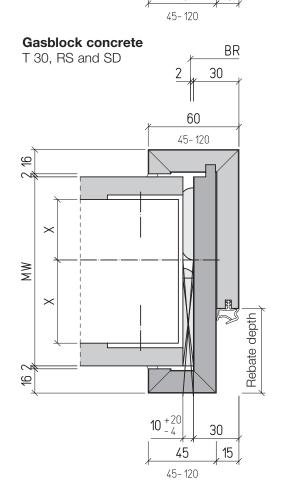
5.18

Wooden frames

Wooden block frames without filler element

Concrete, masonry T 30, RS and SD BR 2 30 60 45-120 90 10 +20 45 15





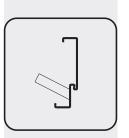
Note!

Frame has no wall-ceiling-adjustment



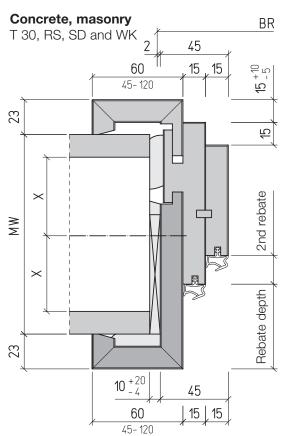
X-Measure

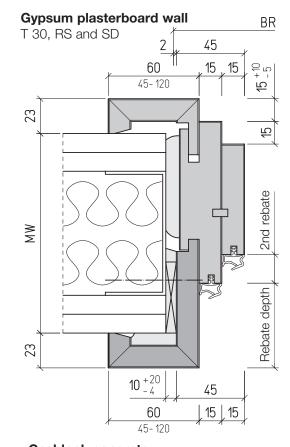
 $\begin{array}{ll} \text{Concrete, masonry} & \geq 50,0 \text{ mm} \\ \text{Gasblock concrete T 30, T 90} \geq 87,5 \text{ mm} \\ \text{Gasblock concrete T 30, RS} & \geq 57,5 \text{ mm} \\ & \text{\tiny up to 100 kg door weight} \\ \text{Gasblock concrete RS} & \geq 75,0 \text{ mm} \end{array}$

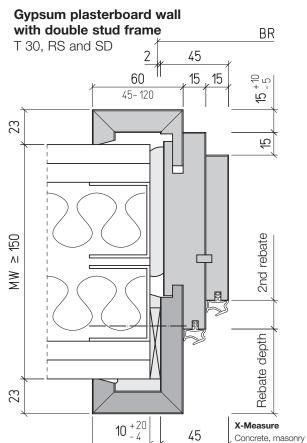


Wooden frames

Wooden wrap-around frames with double rebate



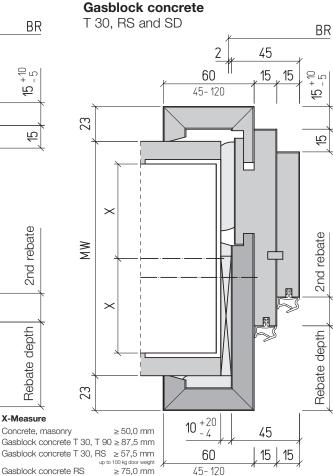




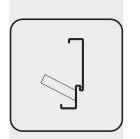
60

45-120

15 | 15

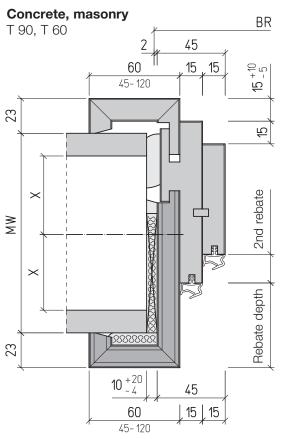


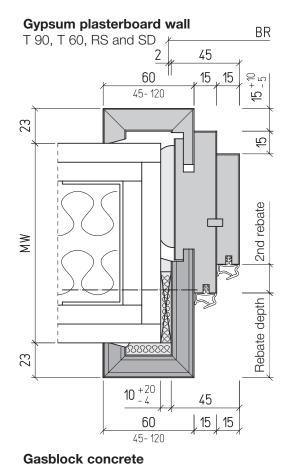


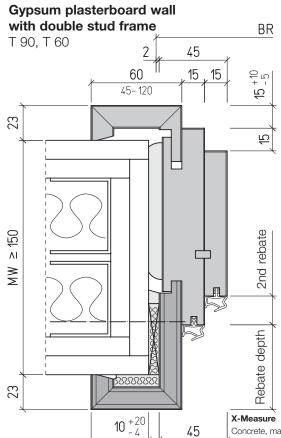


Wooden frames

Wooden wrap-around frames with double rebate



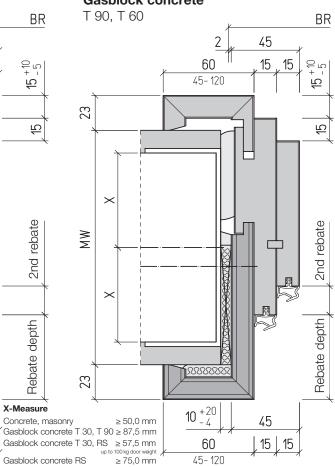




60

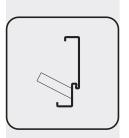
45-120

15 | 15





644

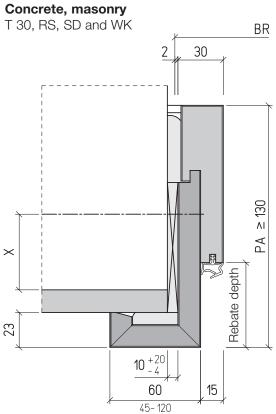


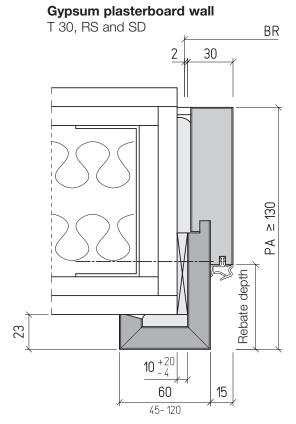
Frames

Wooden frames

Wooden corner frames

.

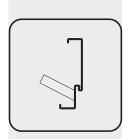




Gasblock concrete T 30, RS and SD 2 30 White the state of the state

45-120



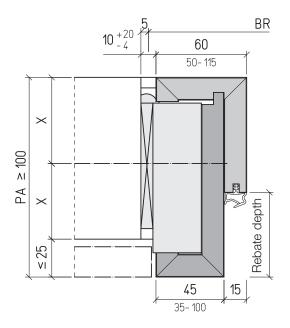


5.20 Frames

Wooden frames

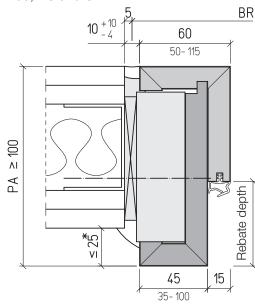
Wooden block frames, screw fastening

Concrete, masonry T 30, RS, SD and WK



Gypsum plasterboard wall, PA frame < wall thickness

T 30, RS and SD

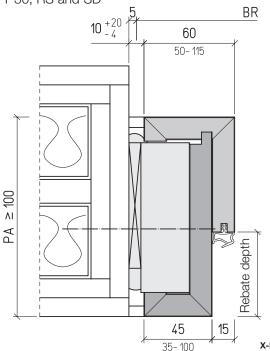


Note!

If the building joint is $\geq 20 < 30$ mm or the block frame engagement ≤ 100 mm the frame cavities have to be filled with mineral wool.

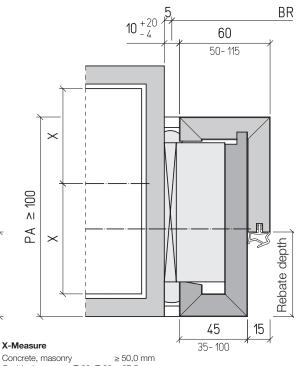
Gypsum plasterboard wall, PA frame < wall thickness

T 30, RS and SD



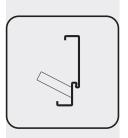
Gasblock concrete

T 30, RS and SD





Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm ≥ 75,0 mm Gasblock concrete RS

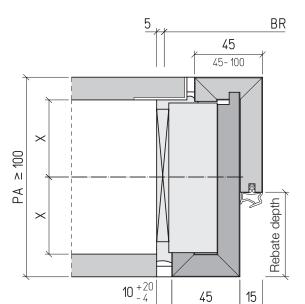


Wooden frames

Wooden block frames, non-standard sheathing widths

Concrete, masonry

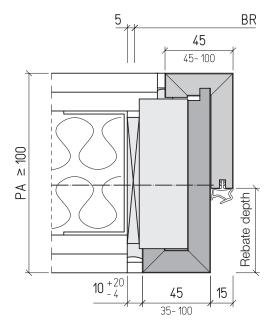
T 30, RS, SD and WK



35-100

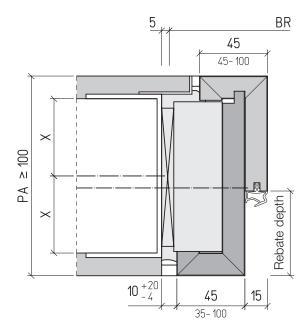
Gypsum plasterboard wall

T 30, RS and SD



Gasblock concrete

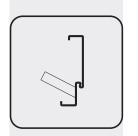
T 30, RS and SD





Note!

If the building joint is $\geq 20 < 30$ mm or the block frame engagement ≤ 100 mm the frame cavities have to be filled with mineral wool.



5.20

Wooden frames

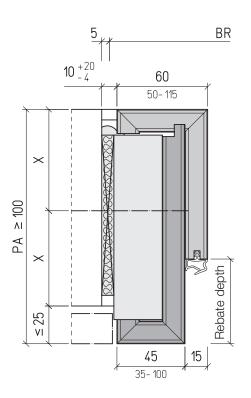
Wooden block frames, screw fastening

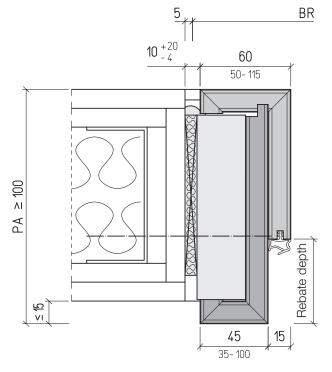
Concrete, masonry

T 90, T 60

Gypsum plasterboard wall

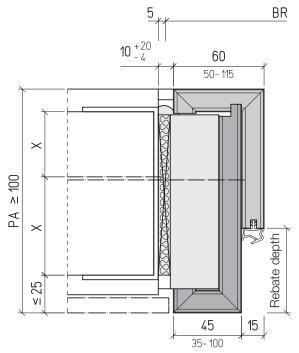
T 90, T 60





Gasblock concrete

T 90, T 60



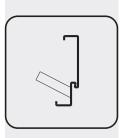


X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight



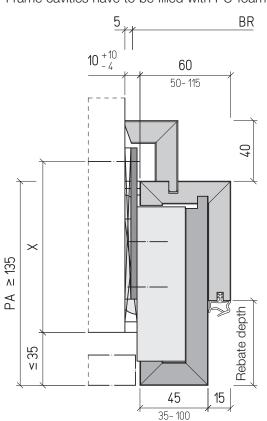


Wooden frames

Wooden block frames, screw-anchor fastening

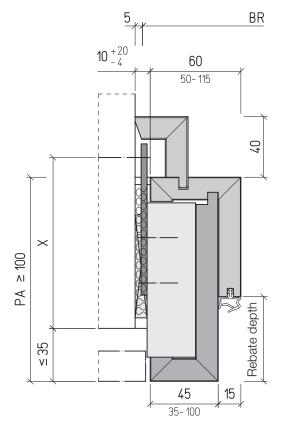
Concrete, masonry

T 30, RS, SD and WK Frame cavities have to be filled with PU-foam

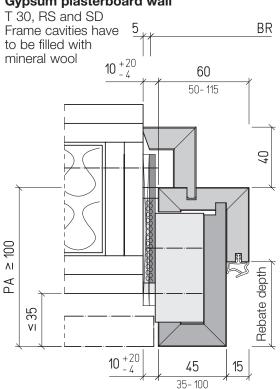


Concrete, masonry

T 30, RS, SD and WK Frame cavities have to be filled with mineral wool



Gypsum plasterboard wall



Note!

If the building joint is $\geq 20 < 30$ mm or the block frame engagement ≤ 100 mm the frame cavities have to be filled with mineral wool.

X-Measure

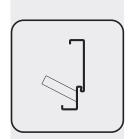
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

Gasblock concrete RS

200 kg door weight ≥ 75,0 mm

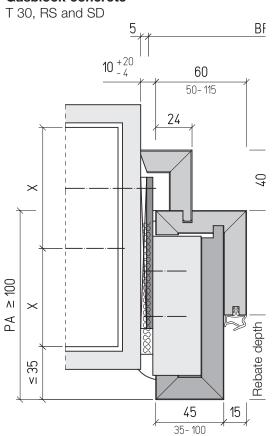




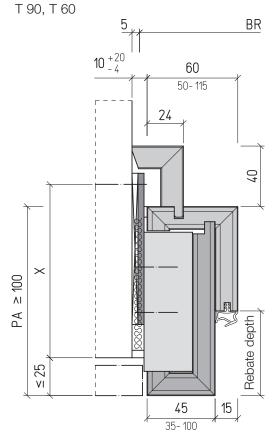
Wooden frames

Wooden block frames, screw-anchor fastening

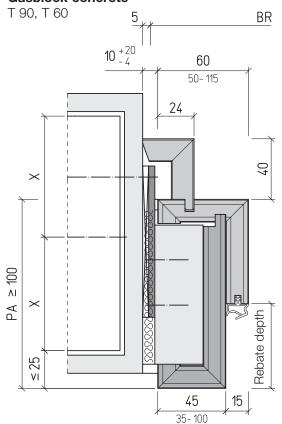
Gasblock concrete



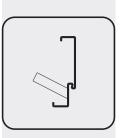
Concrete, masonry



Gasblock concrete







5.20 Frames

Wooden door frames

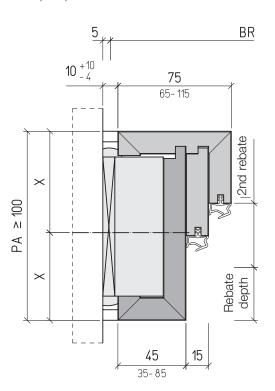
Wooden block frames, double-rebated

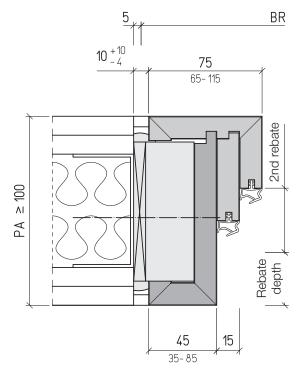
Concrete, masonry

T 30, RS, SD and WK

Gypsum plasterboard wall

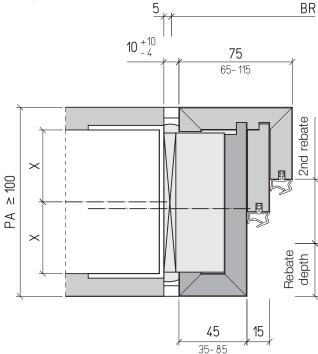
T 30, RS, SD and WK





Gasblock concrete

T 30, RS and SD



(0) R Schörghuber

Note!

If the building joint is $\geq 20 < 30$ mm or the block frame engagement ≤ 100 mm the frame cavities have to be filled with mineral wool.

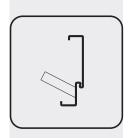
X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm

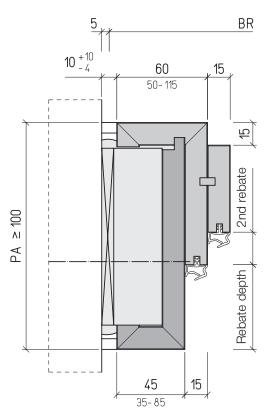


Wooden frames

Wooden block frames with double and decorative rebate

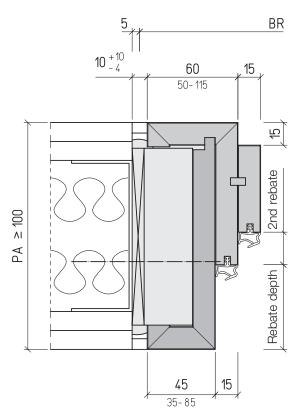
Concrete, masonry

T 30, RS, SD and WK

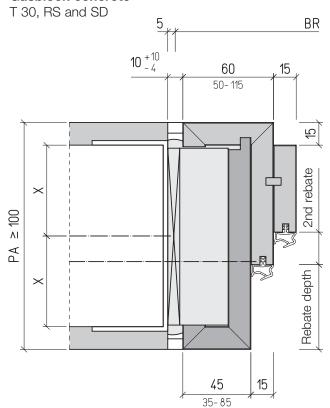


Gypsum plasterboard wall

T 30, RS, SD and WK



Gasblock concrete



Note!

If the building joint is $\geq 20 < 30$ mm or the block frame engagement ≤ 100 mm the frame cavities have to be filled with mineral wool.

X-Measure

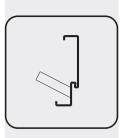
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight $\geq 75.0 \text{ mm}$

Gasblock concrete RS



652



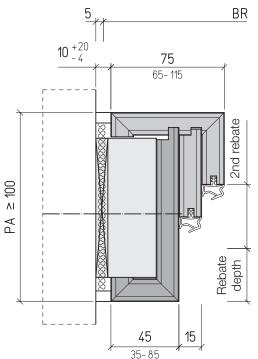
Wooden door frames

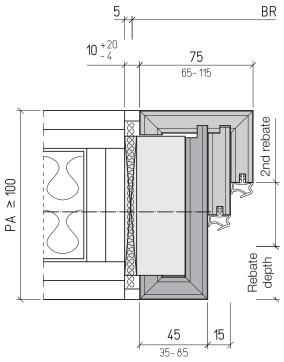
Wooden block frames, double-rebated

Concrete, masonry

T 90, T 60



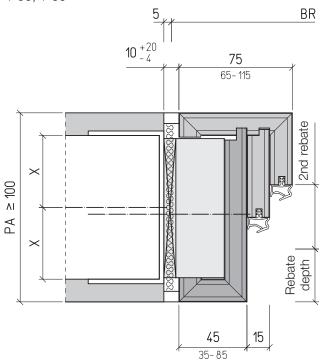




Gypsum plasterboard wall

Gasblock concrete

T 90, T 60



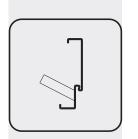


Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight ≥ 75,0 mm

Gasblock concrete RS



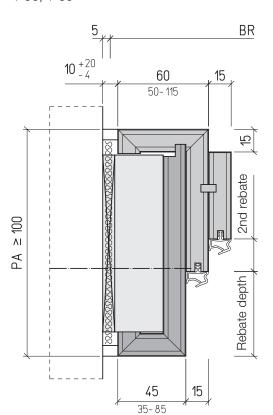


Wooden frames

Wooden block frames with double and decorative rebate

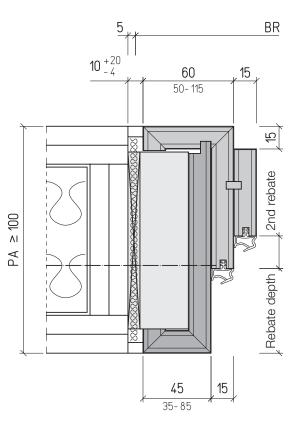
Concrete, masonry

T 90, T 60



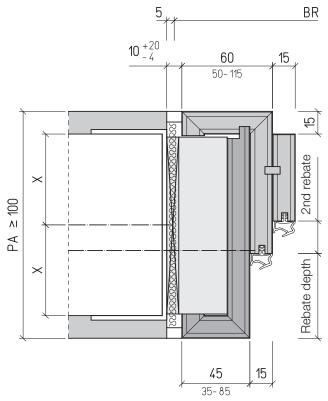
Gypsum plasterboard wall

T 90, T 60



Gasblock concrete

T 90, T 60



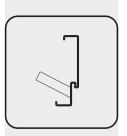
X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight $\geq 75,0 \text{ mm}$

Gasblock concrete RS



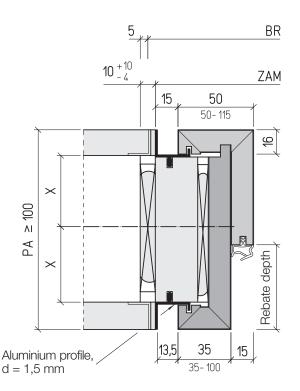


Wooden frames

Wooden block frames with quirk

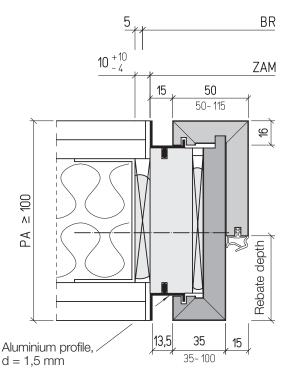
Concrete, masonry

T 30, RS and SD



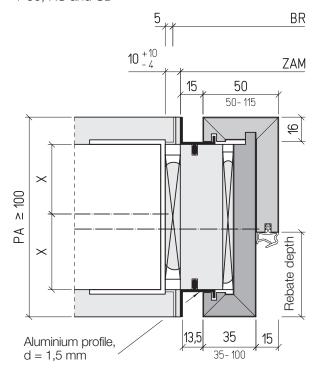
Gypsum plasterboard wall

T 30, RS and SD



Gasblock concrete

T 30, RS and SD



Note!

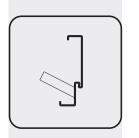
If the building joint is $\geq 20 < 30$ mm or the block frame engagement ≤ 100 mm the frame cavities have to be filled with mineral wool.

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight





Wooden frames

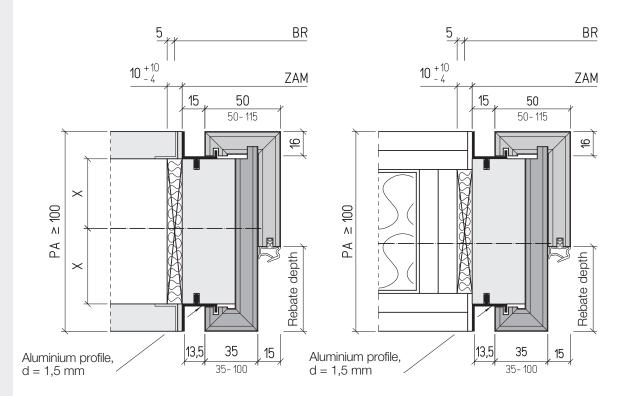
Wooden block frames with quirk

Concrete, masonry

T 90, T 60

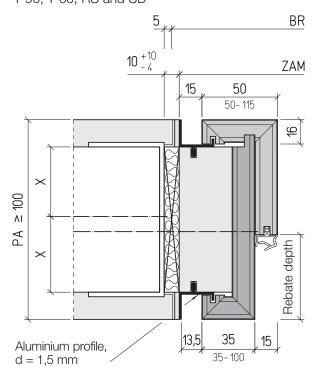
Gypsum plasterboard wall

T 90, T 60



Gasblock concrete

T 90, T 60, RS and SD



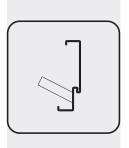
X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight



5.20

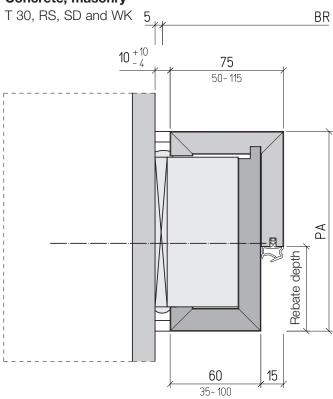


Frames

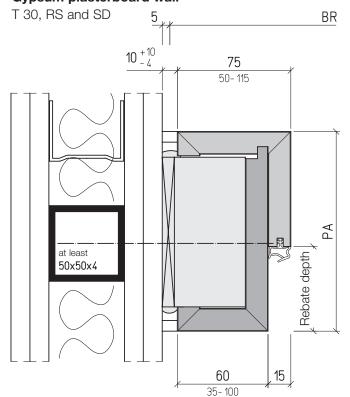
Wooden frames

Wooden block frame

Concrete, masonry



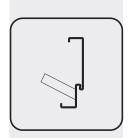
Gypsum plasterboard wall





Note!

Allow enough space for hinges and door closer.

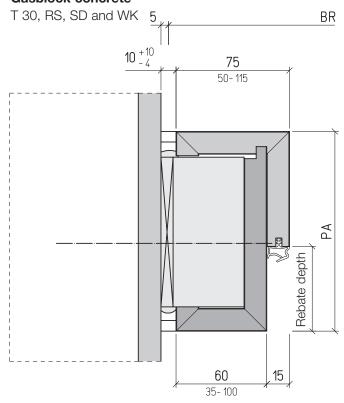


Wooden frames

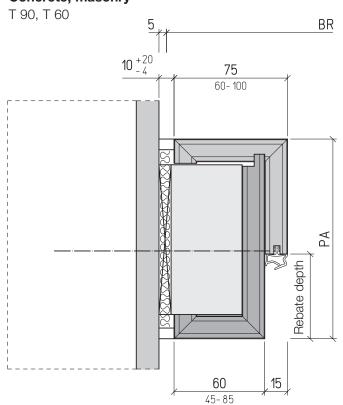
Installation in hallways with wooden block frames

5.20

Gasblock concrete



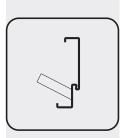
Concrete, masonry





Note!

Allow enough space for hinges and door closer.

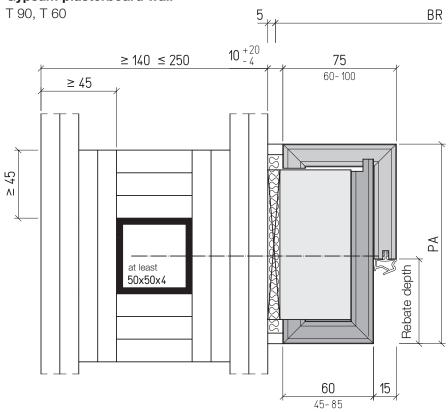


5.20

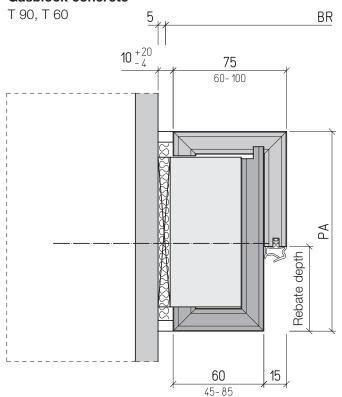
Wooden frames

Installation in hallways with wooden block frames

Gypsum plasterboard wall



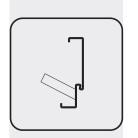
Gasblock concrete





Note!

Allow enough space for hinges and door closer.

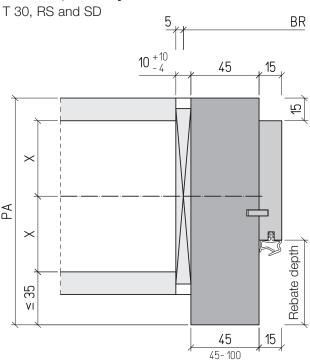


5.21

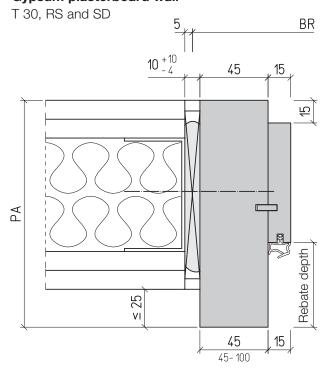
Wooden frames

Solid wooden block frames

Concrete, masonry



Gypsum plasterboard wall





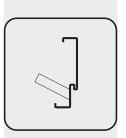
Note!

If the building joint is $\geq 20 < 30$ mm or the block frame engagement ≤ 100 mm the frame cavities have to be filled with mineral wool.

X-Measure

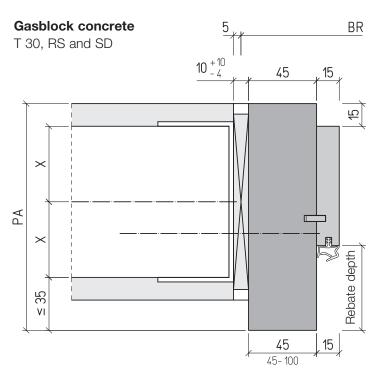
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

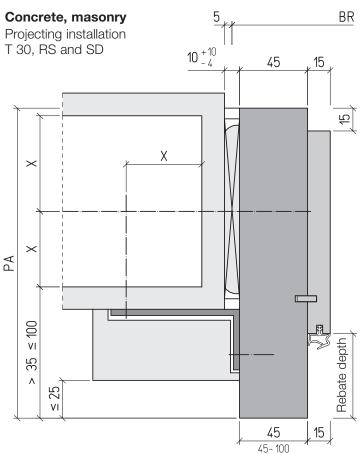
up to 100 kg door weight



Wooden frames

Solid wooden block frames







Note

If the building joint is $\geq 20 < 30$ mm or the block frame engagement ≤ 100 mm the frame cavities have to be filled with mineral wool.

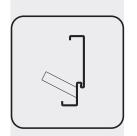
X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

Gasblock concrete RS

up to 100 kg door weight $\geq 75,0 \text{ mm}$

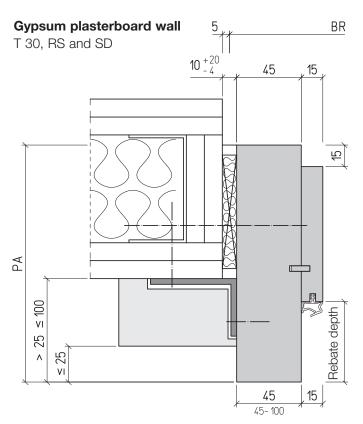
661

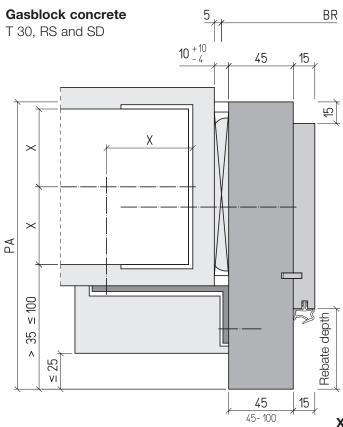


5.21

Wooden frames

Solid wooden block frames, projecting installation







Note!

If the building joint is $\geq 20 < 30$ mm or the block frame engagement ≤ 100 mm the frame cavities have to be filled with mineral wool.

X-Measure

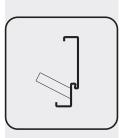
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm

662

5.22



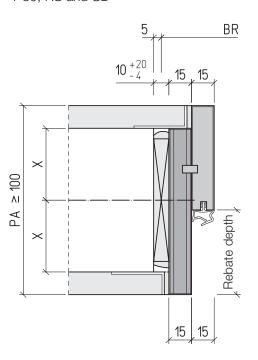
Frames

Wooden frames

Slimline solid wooden block frames

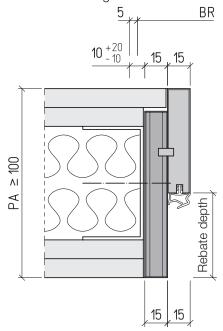
Concrete, masonry

T 30, RS and SD



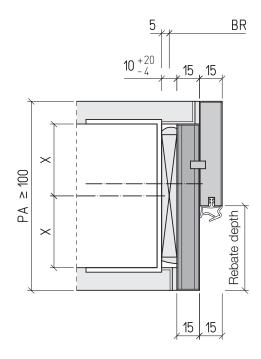
Gypsum plasterboard wall

T 30, RS and SD Installation during wall erection



Gasblock concrete

T 30, RS and SD



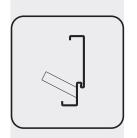


X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

Gasblock concrete RS

up to 100 kg door weight $\geq 75,0 \text{ mm}$



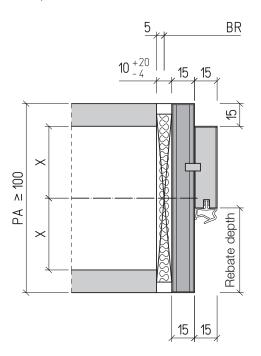
5.22

Wooden frames

Slimline solid wooden block frames with decorative rebate

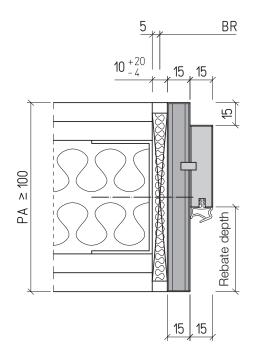
Concrete, masonry

T 30, RS and SD



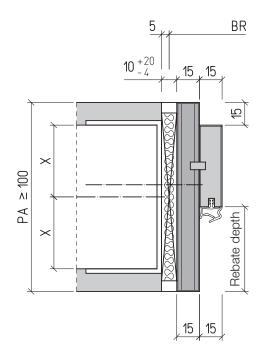
Gypsum plasterboard wall

T 30, RS and SD



Gasblock concrete

T 30, RS and SD





X-Measure

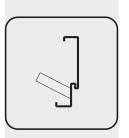
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm

5.23



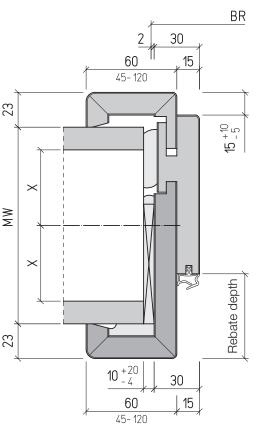
Frames

Wooden frames

Softline frames

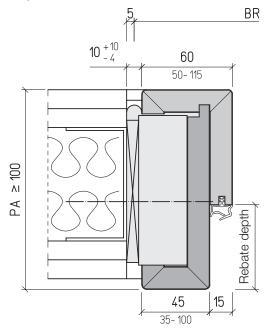
Concrete, masonry, gasblock concrete gypsum plasterboard wall

Wooden wrap-around frame, pictured in solid wall



Concrete, masonry, gasblock concrete, gypsum plasterboard wall

Wooden block frame, pictured in gypsum plasterboard wall



Concrete, masonry, gasblock concrete, gypsum plasterboard wall

Wooden wrap-around frame with guirk, pictured in gasblock BR concrete 10 + 10 ZAM 15 50 50-115 16 \times ۸Ι ΡA Rebate depth Aluprofil 15 d = 1,5 mm35-100

Softline frames

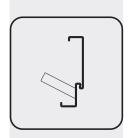
The types of Softline frames pictured here are simply showing a sample of the possible configurations. Principally the frames are available for the complete product pallet (T30, T60, T90, SD, WK, NT, VT) and in all wall types.

From a certain number of units on destinct configuration details and dimensions can be matched to the individual requirements.

Softline frames are available veneered, as well as laquered and also in HPL- or CPL-coating. Herefore please observe our current collection of the Schnell-schuss®-Program.

For further detailed information please contact us directly!

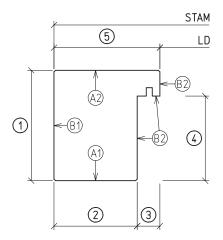




mes **5.24**

Wooden frames

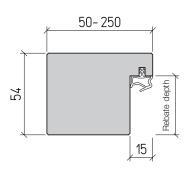
Solid wooden frames, technical terms, dimensions



- Overall frame depth
- 2 Face, pull side
- (3) Rebate width
- (4) Rebate depth
- 5 Face, push side
- (A1) Visible surface, pull side
- A2 Visible surface, push side
- (B1) Outer edge
- B2 Inside edge

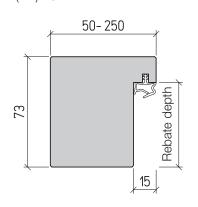
Standard

Solid wooden frame depth (PA) 54 mm



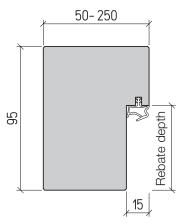
Standard

Solid wooden frame depth (PA) 73 mm



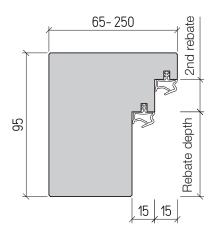
Standard

Solid wooden frame depth (PA) 95 mm



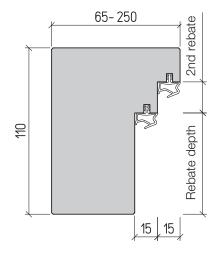
Double rebate

Solid wooden frame depth (PA) 95 mm

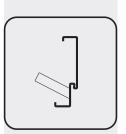


Double rebate

Solid wooden frame depth (PA) 110 mm





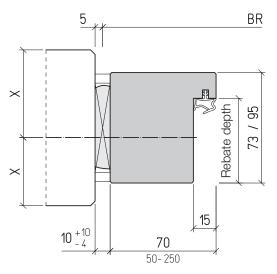


Wooden frames

Solid wooden frames, screw fastening

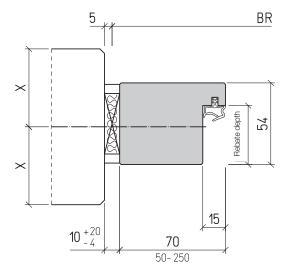
Concrete, masonry

T 30, RS, SD and WK PA 73/95 mm



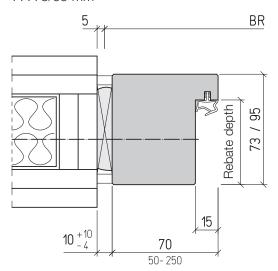
Concrete, masonry

T 30*, RS and SD PA 54 mm



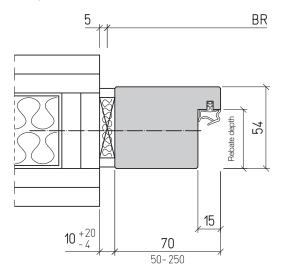
Gypsum plasterboard wall

T 30, RS and SD PA 73/95 mm



Gypsum plasterboard wall

T 30*, RS and SD PA 54 mm



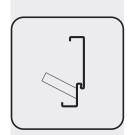




Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight
Gasblock concrete RS ≥ 75,0 mm





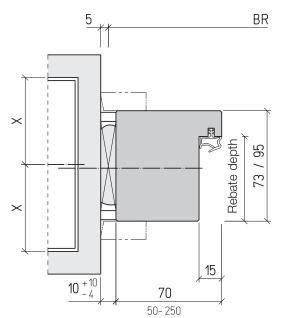
5.25 Frames

Wooden frames

Solid wooden frames, screw fastening

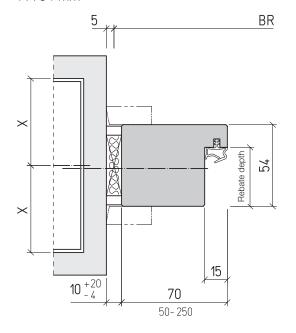
Gasblock concrete

T 30, RS and SD PA 73/95 mm

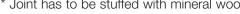


Gasblock concrete

T 30*, RS and SD PA 54 mm





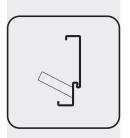




up to 100 kg door weight



73 /



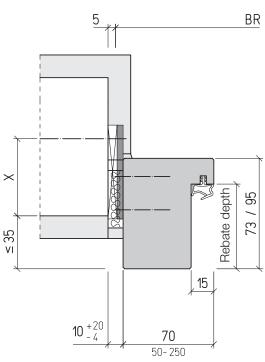
Frames 5.25

Wooden frames

Solid wooden frames, screw-anchor fastening

Concrete, masonry

T 30, RS, SD and WK Installation A - G



Gasblock concrete T 30, RS and SD

Installation AB

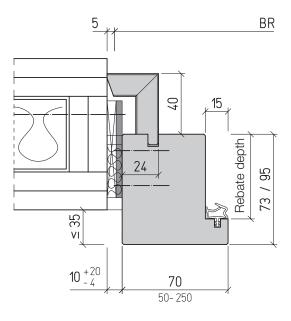
BR

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24

Gypsum plasterboard wall

T 30, RS and SD Installation A - B



X-Measure

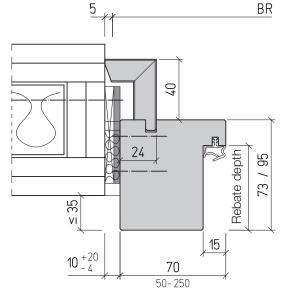
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

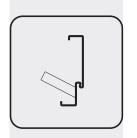
up to 100 kg door weight Gasblock concrete RS \Rightarrow 75,0 mm



Gypsum plasterboard wall T 30, RS and SD Installation A - G

35



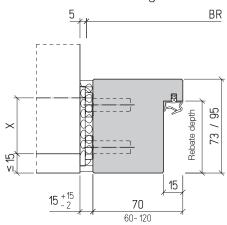


Wooden frames

Solid wooden frames, non-standard installation

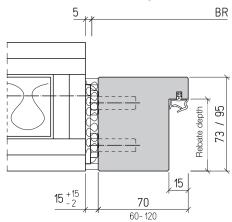
Concrete, masonry

T 30, RS and SD Screw and weld fastening



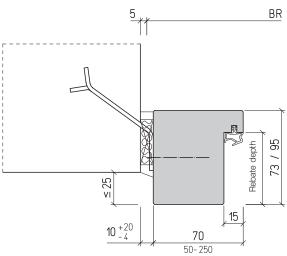
Gypsum plasterboard wall

T 30, RS and SD Screw and weld fastening



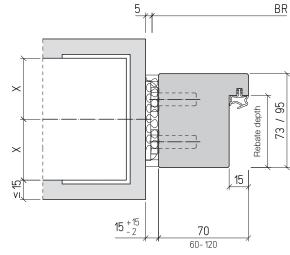
Concrete, masonry

T 30, RS and SD Wall anchor fastening



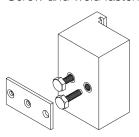
Gasblock concrete

T 30, RS and SD Screw and weld fastening



Detail

Screw and weld fastening

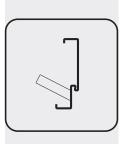




X-Measure

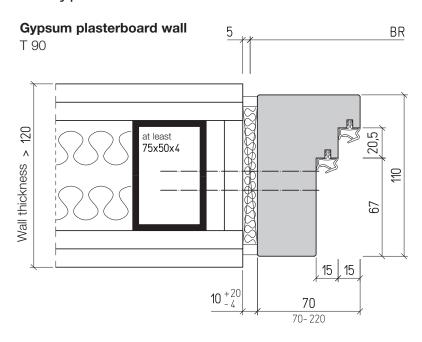
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight



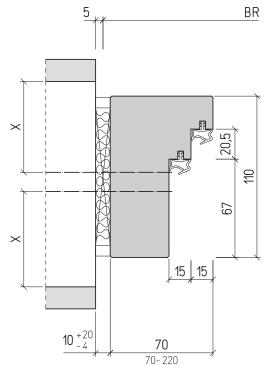
Wooden frames

Solid wooden frames, screw fastening for type 91 N / 92 N



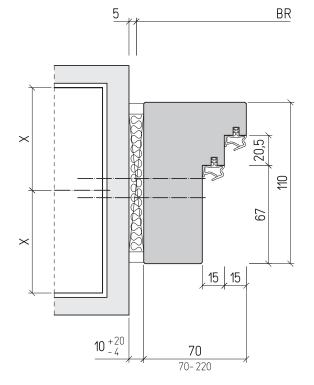
Concrete, masonry

T 90



Gasblock concrete

T 90



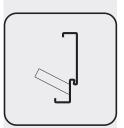
X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight







Wooden frames

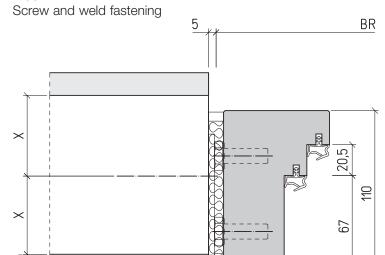
Solid wooden frames, non-standard installation for type 91 N / 92 N

15 15

70 70-220

Gypsum plasterboard wall

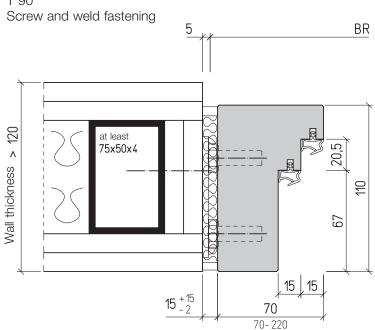
T 90



15 + 15

Concrete, masonry

T 90



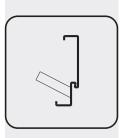


X-Measure

Concrete, masonry Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight

5.25



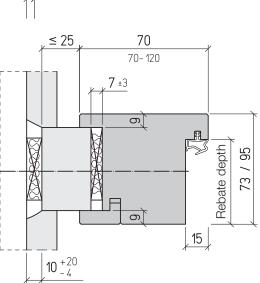
Wooden frames

Solid wooden frames, on site constructed quirk

Concrete, masonry

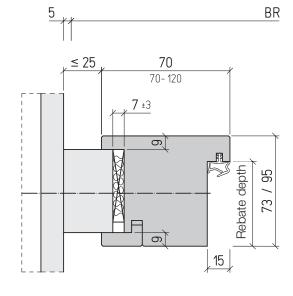
T 30, RS and SD With offset blind solid wooden frame / wall

5 BR



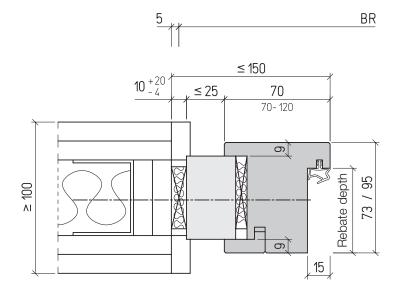
Concrete, masonry

T 30, RS and SD Blind solid wooden frame directly mounted on the grout / wall



Gypsum plasterboard wall

T 30, RS and SD With offset blind solid wooden frame / wall

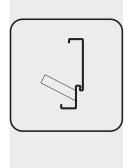




X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight
Gasblock concrete RS ≥ 75,0 mm



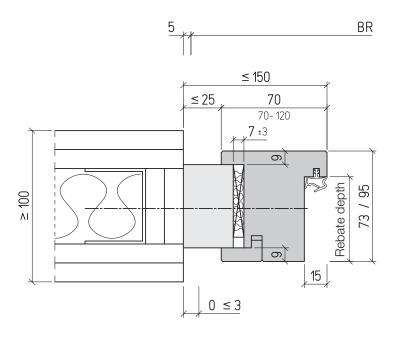
Wooden frames

Solid wooden frames, on site constructed quirk

Gypsum plasterboard wall

T 30, RS and SD

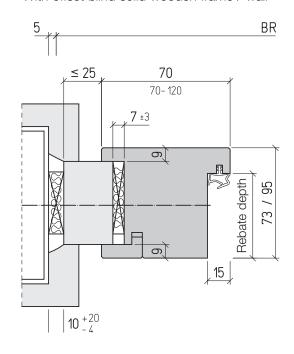
Blind solid wooden frame directly mounted on the wall



Gasblock concrete

T 30, RS and SD

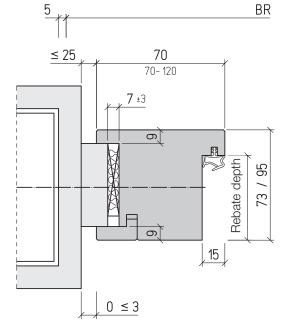
With offset blind solid wooden frame / wall



Gasblock concrete

T 30, RS and SD

Blind solid wooden frame directly mounted on the grout / wall

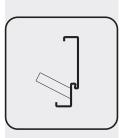




Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight



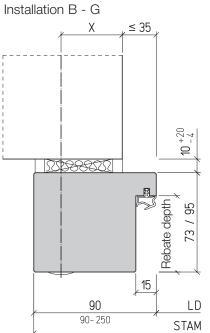


Wooden frames

Solid wooden frames, installation in front of wall opening

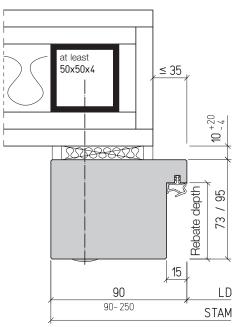
Concrete, masonry, gasblock concrete

T 30, RS and SD Installation B - G



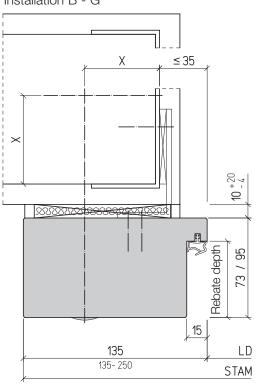
Gypsum plasterboard wall

T 30, RS and SD Installation B - G



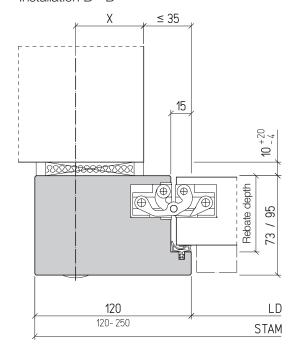
Gasblock concrete

T 30, RS and SD Installation B - G

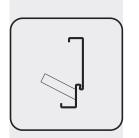


Concrete, masonry

T 30, RS and SD, only unrebated with integrated door closer Installation B - B







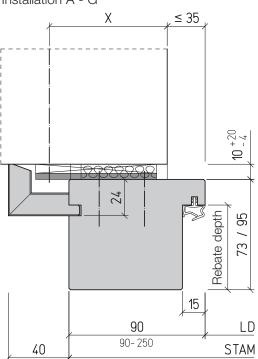
5.27

Wooden frames

Solid wooden frames, installation in front of wall opening

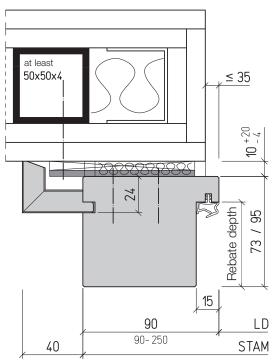
Concrete, masonry

T 30, RS and SD Installation A - G



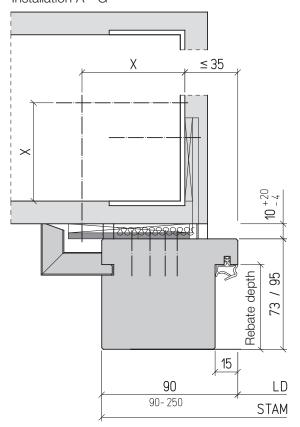
Gypsum plasterboard wall

T 30, RS and SD Installation A - G



Gasblock concrete

T 30, RS and SD Installation A - G

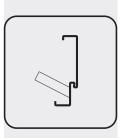


X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight





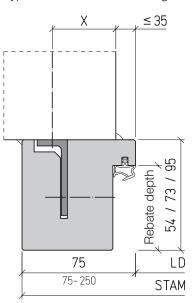
Wooden frames

Solid wooden frames, installation in front of wall opening

Concrete, masonry

For door leaf thickness 50 mm, T 30, RS, SD and WK 2 $\,$

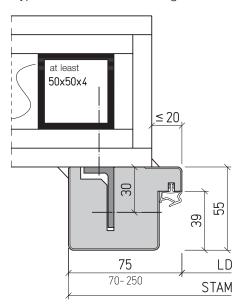
Type C - 1 bracket fastening



Gypsum plasterboard wall

For door leaf thickness 50 mm, RS, SD and WK 2

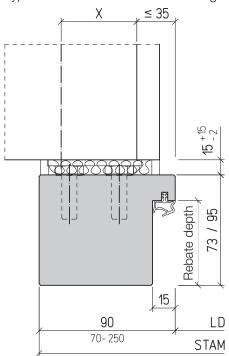
Type C - 1 bracket fastening



Concrete, masonry

T 30, RS and SD

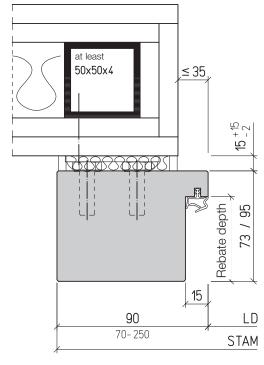
Type D - 1 screw and weld fastening



Gypsum plasterboard wall

T 30, RS and SD

Type D - 1 screw and weld fastening

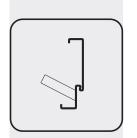




Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight





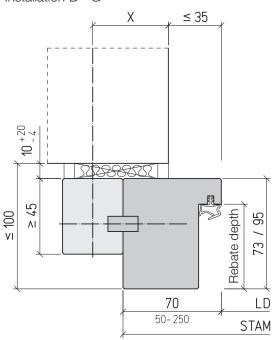
Wooden frames

Solid wooden frames, projecting installation

Concrete, masonry, gasblock concrete

T 30, RS and SD

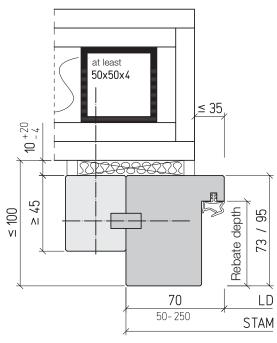
With blind solid wooden frame, push side Installation B - G



Gypsum plasterboard wall

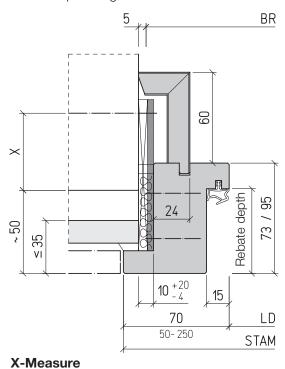
T 30, RS and SD

With blind solid wooden frame, push side Installation B - G



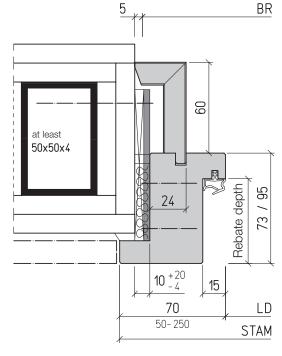
Concrete, masonry, gasblock concrete

T 30, RS and SD With wall panelling



Gypsum plasterboard wall

T 30, RS and SD With wall panelling

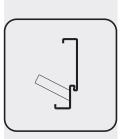




Schörghuber

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

678

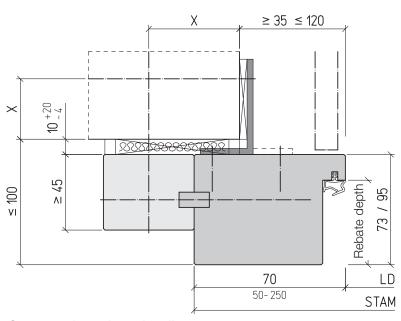


Wooden frames

Solid wooden frames, projecting installation

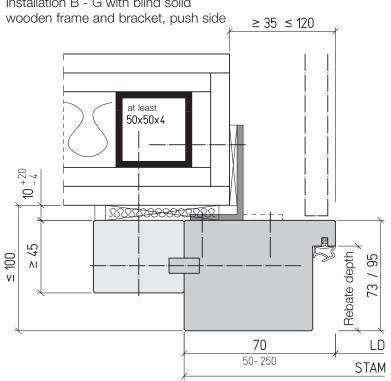
Concrete, masonry

T 30, RS and SD Installation B - G with blind solid wooden frame and bracket, push side



Gypsum plasterboard wall

T 30, RS and SD Installation B - G with blind solid

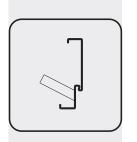


X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

Gasblock concrete RS up to 100 kg door weight \geq 75,0 mm





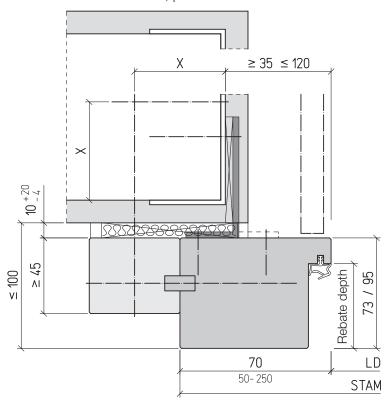
5.28

Wooden frames

Solid wooden frames, projecting installation

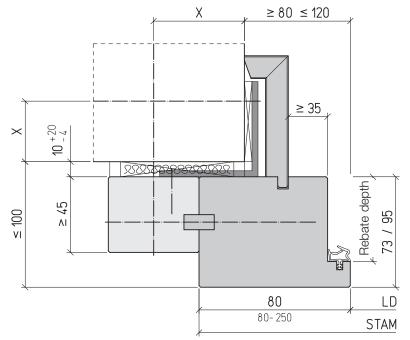
Gasblock concrete

T 30, RS and SD Installation B - G with blind solid wooden frame and bracket, push side



Concrete, masonry

T 30, RS and SD Installation B - B with blind solid wooden frame and bracket, pull side

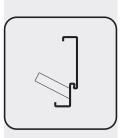




Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight $\geq 75,0 \text{ mm}$ X-Measure

Gasblock concrete RS

5.28



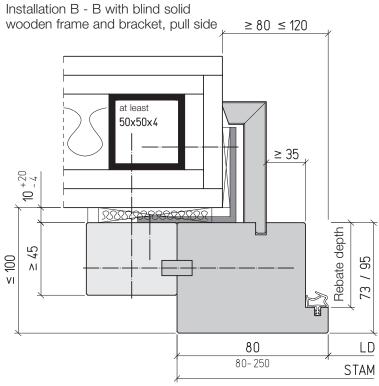
Frames

Wooden frames

Solid wooden frames, projecting installation

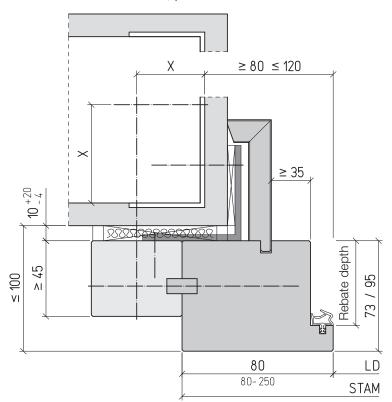
Gypsum plasterboard wall

T 30, RS and SD



Gasblock concrete

T 30, RS and SD Installation B - B with blind solid wooden frame and bracket, pull side





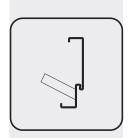
Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

X-Measure

681

Gasblock concrete RS

up to 100 kg door weight $\geq 75,0 \text{ mm}$



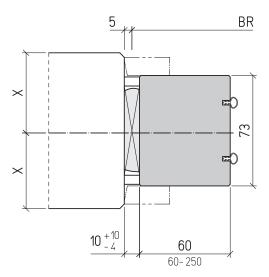
5.29

Wooden frames

Solid wooden frames, screw fastening Swing door

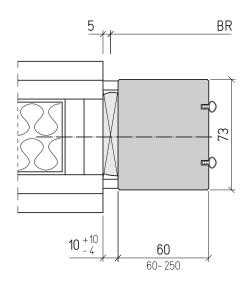
Concrete, masonry

T 30 and VT



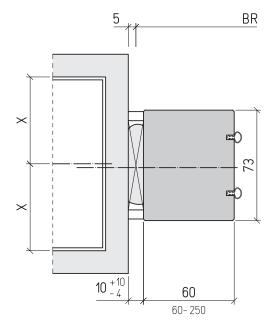
Gypsum plasterboard wall

T 30 and VT



Gasblock concrete

T 30 and VT



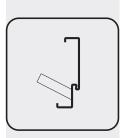
FORM® Schörghuber

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight $\geq 75,0 \text{ mm}$

Gasblock concrete RS

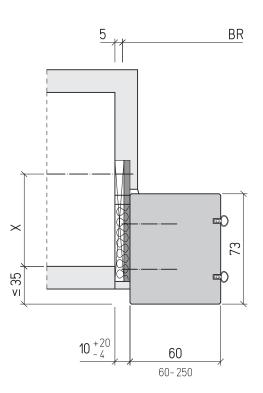


Wooden frames

Solid wooden frames, screw-anchor fastening Swing door

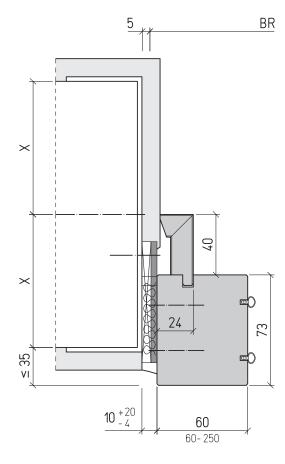
Concrete, masonry

T 30 and VT



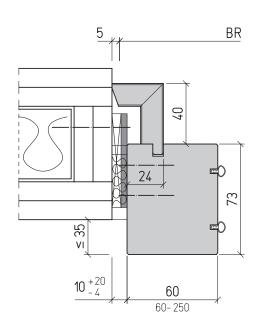
Gasblock concrete

T 30 and VT



Gypsum plasterboard wall

T 30 and VT



X-Measure

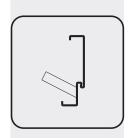
Concrete, masonry Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm



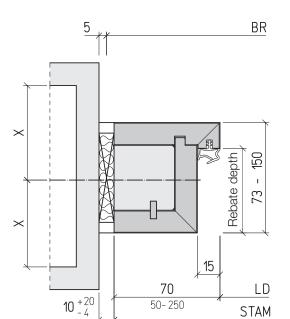


Wooden frames

Folded wooden frame, screw-fastening

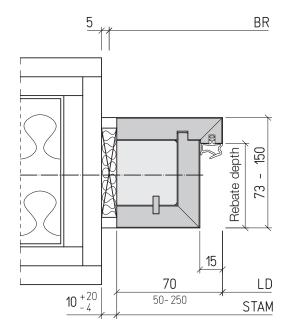
Concrete, masonry

T 30, RS, WK and SD



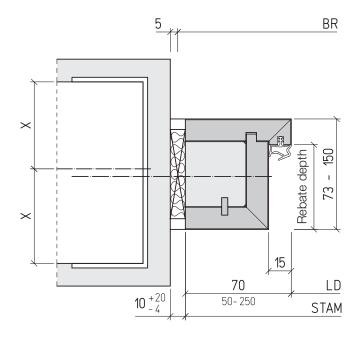
Gypsum plasterboard wall

T 30, RS and SD



Gasblock concrete

T 30, RS and SD



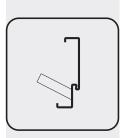


X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight $\geq 75,0 \text{ mm}$

Gasblock concrete RS



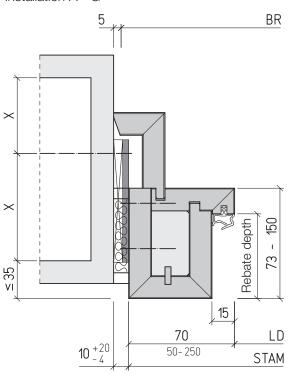
5.30 Frames

Wooden frames

Folded wooden frame, screw-anchor fastening

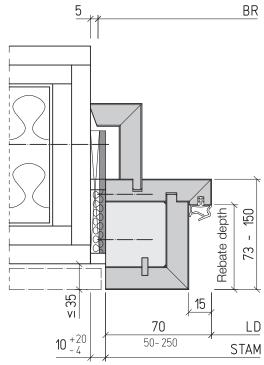
Concrete, masonry

T 30, RS, WK and SD Installation A - G



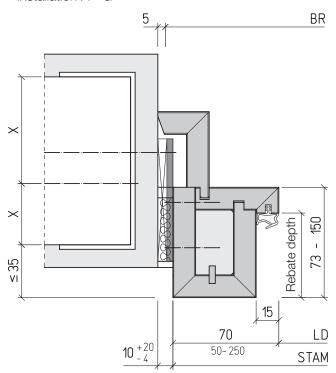
Gypsum plasterboard wall

T 30, RS, WK and SD Installation A - G



Gasblock concrete

T 30, RS, WK and SD Installation A - G



X-Measure

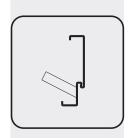
Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm





Wooden frames

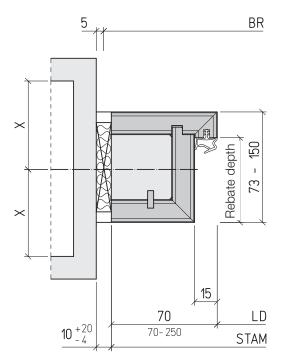
Folded wooden frame, screw-fastening

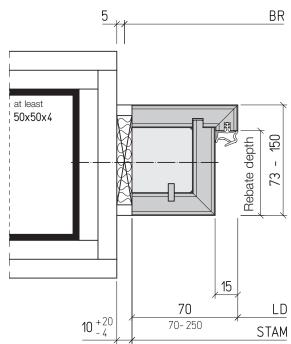
Concrete, masonry

T 90, T 60



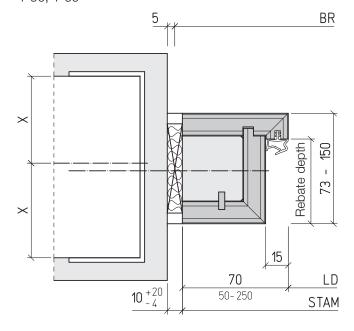
T 90, T 60





Gasblock concrete

T 90, T 60



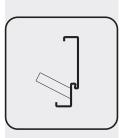


X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm



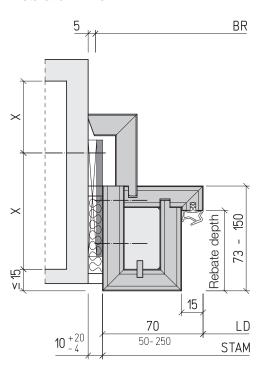
5.30 Frames

Wooden frames

Folded wooden frame, screw-anchor fastening

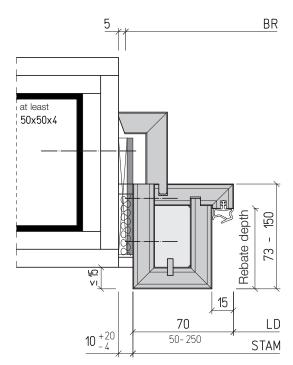
Concrete, masonry

T 90, T 60 Installation A - G



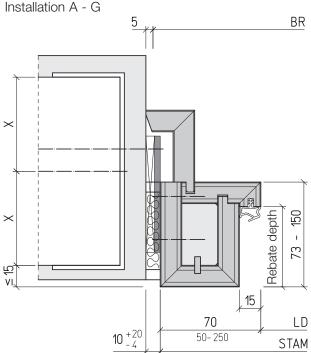
Gypsum plasterboard wall

T 90, T 60 Installation A - G



Gasblock concrete

T 90, T 60 Installation A - G





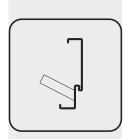
Concrete, masonry Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm



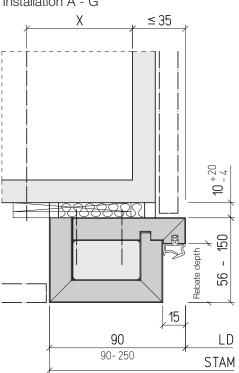


Wooden frames

Folded wooden frame, installation in front of wall opening, scew-anchor fastening

Concrete, masonry

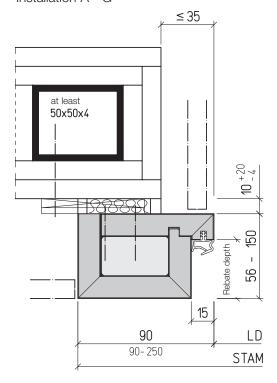
T 30, RS, WK and SD Installation A - G



Gypsum plasterboard wall

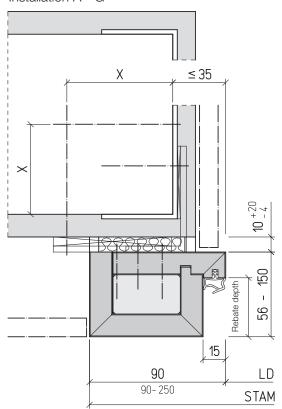
5.31

T 30, RS and SD Installation A - G



Gasblock concrete

T 30, RS and SD Installation A - G



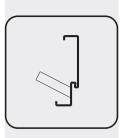
X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

Gasblock concrete RS up to 100 kg door weight \geq 75,0 mm



688



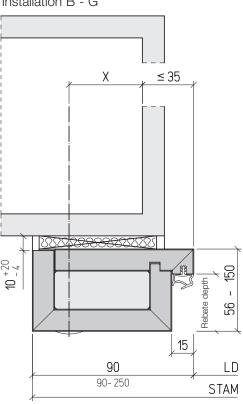
5.31 Frames

Wooden frames

Folded wooden frame, installation in front of wall opening, scew-fastening

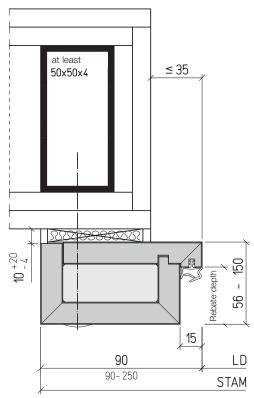
Concrete, masonry

T 30, RS, WK and SD Installation B - G



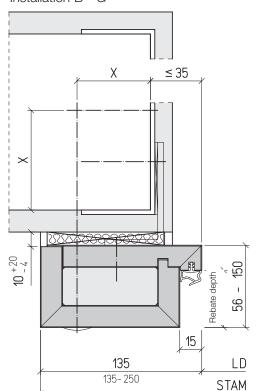
Gypsum plasterboard wall

T 30, RS and SD Installation B - G



Gasblock concrete

T 30, RS and SD Installation B - G



X-Measure

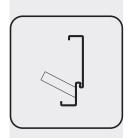
Concrete, masonry Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm

up to 100 kg door weight

Gasblock concrete RS

≥ 75,0 mm



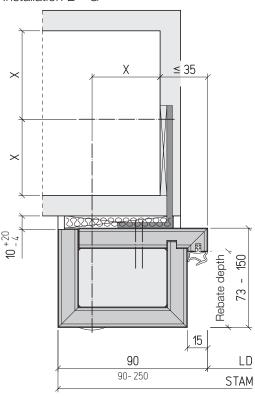


Wooden frames

Folded wooden frame, installation in front of wall opening

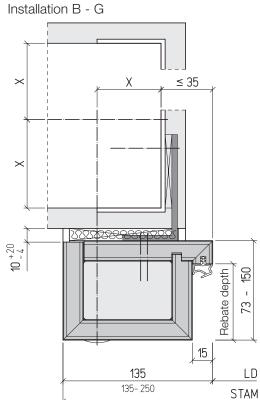
Concrete, masonry

T 90, T 60 Installation B - G



Concrete, masonry, gasblock concrete

T 90, T 60



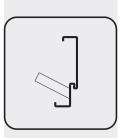


Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight

Gasblock concrete RS ≥ 75,0 mm



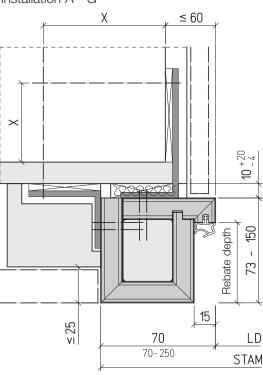


Wooden frames

Folded wooden frame, installation in front of wall opening

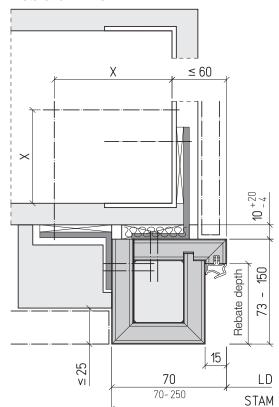
Concrete, masonry

T 90, T 60 Installation A - G



Gasblock concrete

T 90, T 60 Installation A - G

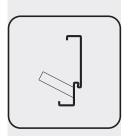




X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm

up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm

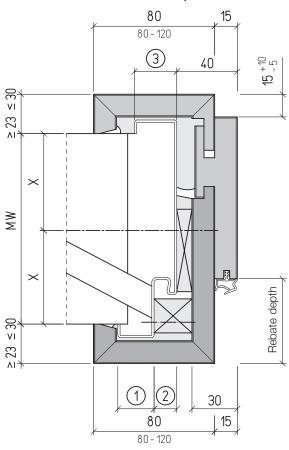


Wooden frames

Reconstruction frame

Reconstruction frame

Concrete, masonry, gasblock concrete, Frame cavities for door sets with T 90 or SD requirements have to be filled with GKF and joint filler.



Calculation scheme for minimum face widths Pull side

Face width, old frame ①	mm
+ Rebate width, old frame ②	mm
+ Requested tolerance	3 mm
+ Material thickness of the wrap-	
around frame (2x15 mm)	30 mm
+ System dimension	10 mm
= Face width, pull side	mm

Push side

i doil side	
Face width, old frame 3	mm
+ Requested tolerance	3 mm
+ Material thickness of the wrap-	
around frame (2x15 mm)	30 mm
+ System dimension	10 mm

= Face width, push side __ mm

This 2-parted wooden frame option offers a solution to the problem of installing a functional door set (T 30, T 90, RS, SD etc.) over an already installed steel frame (the frame cavities must be completely filled with mortar). Therefore Schörghuber door set (function according to requirements) can be installed in the course of a reconstruction, without the need to remove the old frame. The face widths are dependent on the structural situation (frame dimensions).

The architrave depth is adjustable from 23 mm up to 30 mm.

A wall thickness adjustment ranging from + 10 mm up to - 5 mm allows an adaptation to the tolerances on site.

Following details are required for the ordering:

- Clear passage of the old frame
- Architrave width of push and pull side
- Rebate width of the old frame
- Backbend of the old frame
- Overall frame depth

Calculation scheme for the frame LD Width

LD-dimension, old frame	mm
- Subtraction value	80 mm
= LD-dimension, new frame	mm

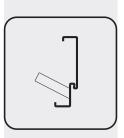
Height

LD-dimension, old frame	mm
- Subtraction value	40 mm
= I D-dimension new frame	mm

X-Measure

Concrete, masonry Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm





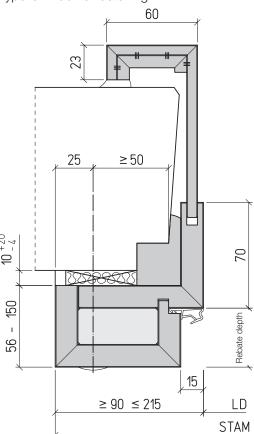
5.32

Wooden frames

Folded wooden frame, reconstruction frame

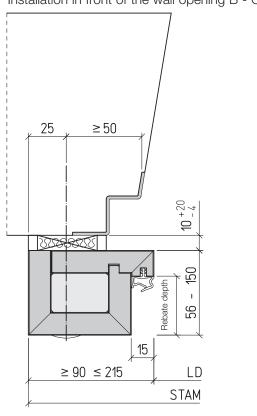
Concrete

T 30, RS, WK and SD Type CFL dowel fastening

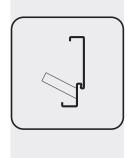


Concrete

T 30, RS, WK and SD Installation in front of the wall opening B - G







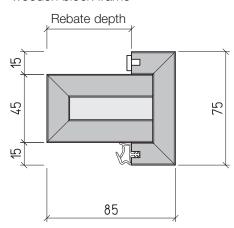
5.33

Wooden frames

Transom

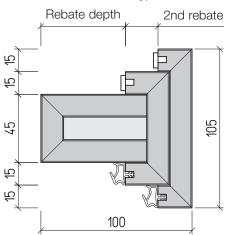
Standard

Wooden wrap-around frame, wooden block frame



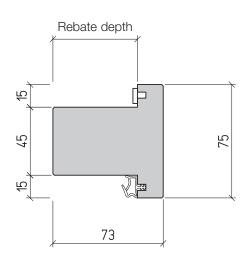
Double-rebated

Rw,P 42 dB, unrebated with jamb rebate Wooden wrap-around frame, wooden block frame, Type 5 N/6 N



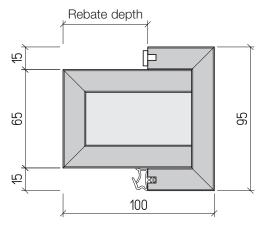
Standard

Solid wooden frame



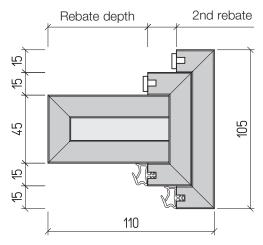
Standard T 90

Wooden wrap-around frame, wooden block frame



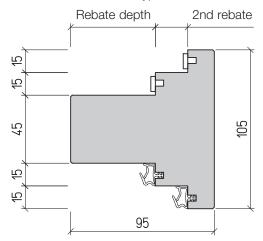
Double-rebated

Type 10 N/20 N Wooden wrap-around frame, wooden block frame



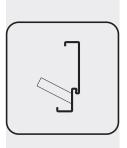
Double-rebated

Rw,P 42 dB, flush with jamb rebate Solid wooden frame, Type 5 N/6 N





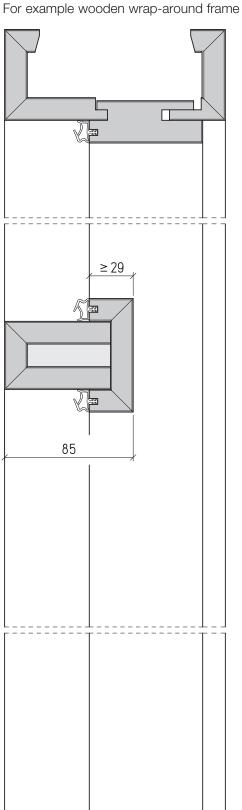
Note! For top panel with gasket instead of sealing tape



Wooden frames

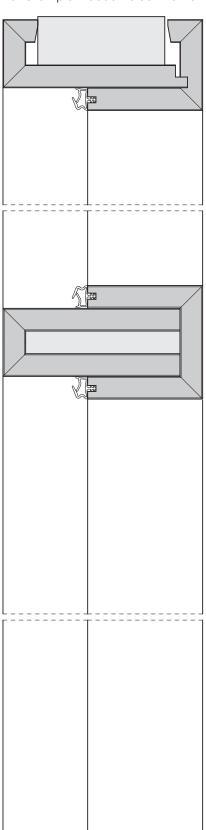
Transom

Standard

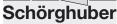


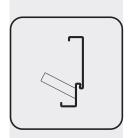
Jamb deep configuration (special design) For example wooden block frame

5.33







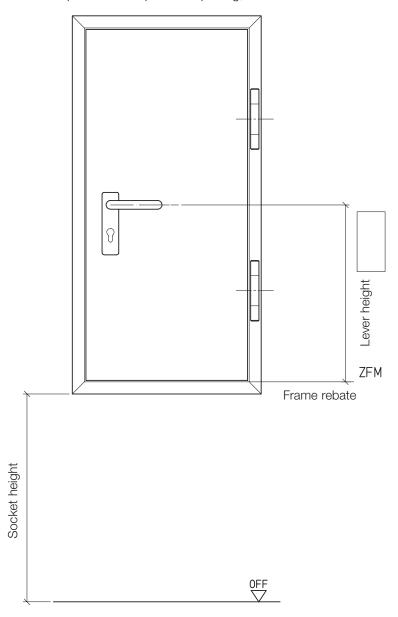


Wooden frames

4-sided, flaps

Application range:

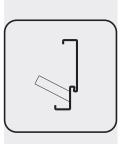
For example to close up a wall opening, which leads to a floor connecting shaft.



Flaps can be inserted without limitation of the socket height.

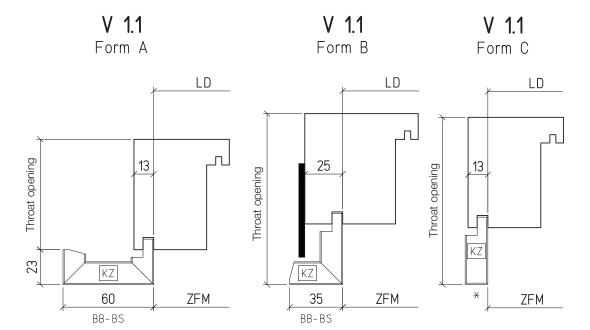
These models are available as approved flaps: 1-leaf door 3 N, 13 N, 16 N, 5 N and 25 N 2-leaf door 4 N, 26 N, 6 N and 27 N

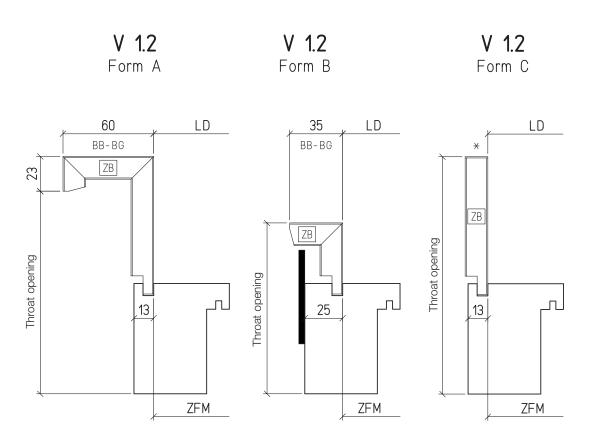




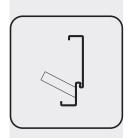
Wooden frames

Solid wooden frames, sheathing





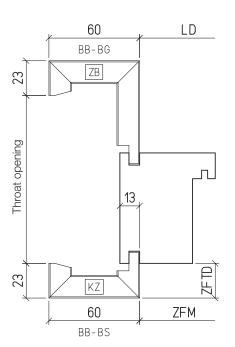




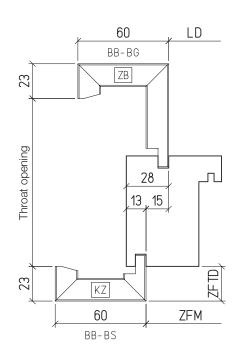
Wooden frames

Solid wooden frames, sheathing

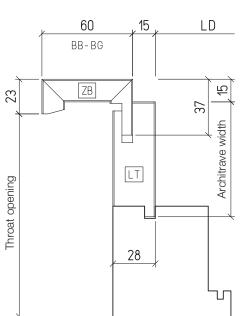
V 1.3



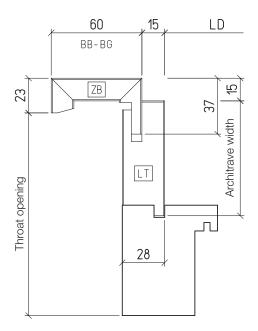
V 1.4



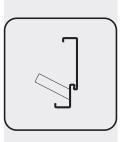
V 2.1



V 2.2





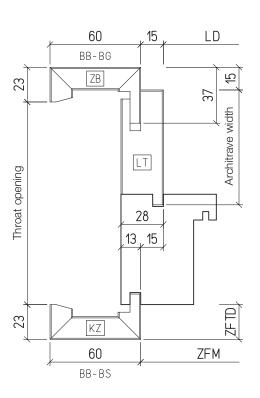


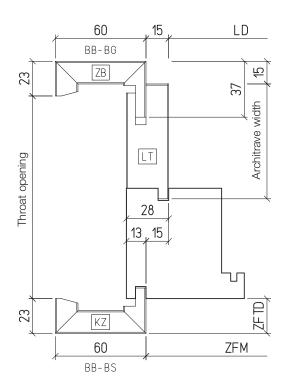
Wooden frames

Solid wooden frames, sheathing

V 2.3

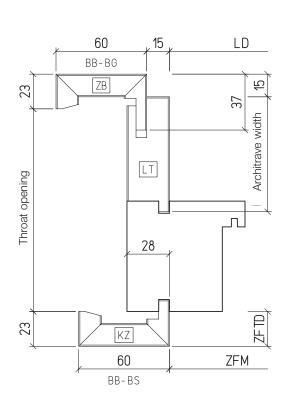
V 2.4

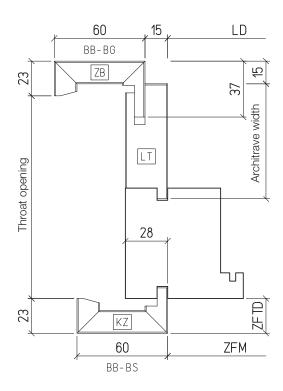




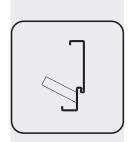
V 2.5

V 2.6





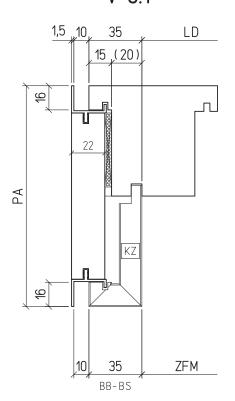




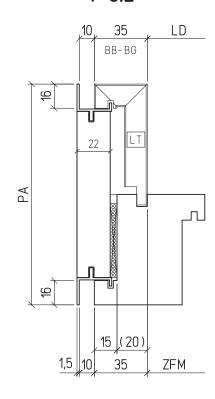
Wooden frames

Solid wooden frames, sheathing

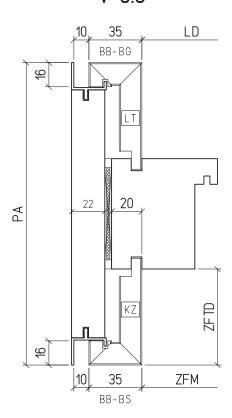
V 3.1



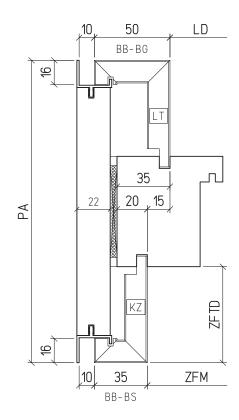
V 3.2



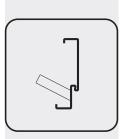
V 3.3



V 3.4





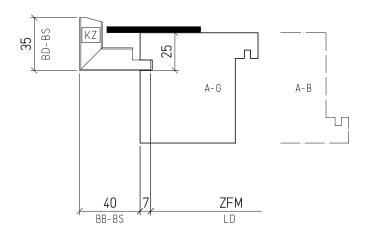


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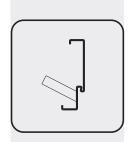
Wooden frames

Solid wooden frames, sheathing

V 4.1



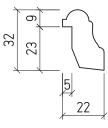


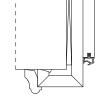


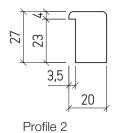
5.35

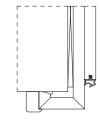
Wooden frames

Fillet

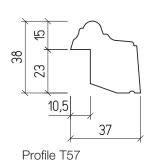


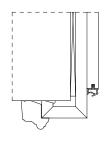


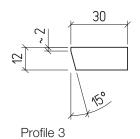


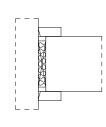


Profile 1

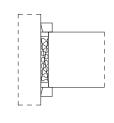


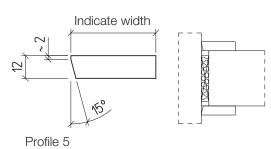






15

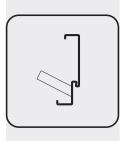




Profile 4



702



Aluminium frames

General information, performance overview

Besides steel and wooden frames Schörghuber special doors are also available with aluminium frames. Featured with modern, aesthetic design with clearly structured shapes, aluminium frames also stand out with their high product quality.

In addition to the heavy duty and Sound-Insulation-Doors, Schörghuber offers an extensive range of approved Smoke- and Fire-Protection-Door sets with the fire resistance class T 30.

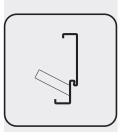
Aluminium frames are especially fit for the installation in highly stressed areas, such as schools, kindergartens or hospitals. The frames are also suitable for the use in damp and wet areas, due to their durability to wet conditions and chemical detergents.

The Aluminium frames are available with an either anodised or powder coated surface (RAL-, NCS- or DB- colouring).

Installation of aluminium frames in

Masonry	wall thickness PA	T 30, RS, SD, NT, VT T 30, RS, SD, NT, VT	
Concrete	wall thickness PA	T 30, RS, SD, NT, VT T 30, RS, SD, NT, VT	
Gypsum plasterboard walls	wall thickness wall thickness	T 30 RS, SD, NT, VT	≥ 100 mm (min. F 60A) ≥ 100 mm (min. F 30A)
Gasblock concrete	wall thickness wall thickness	T 30 RS, SD, NT, VT	≥ 175 mm ≥ 150 mm
Covered steel pillar	cross-section cross-section PA PA	T 30 RS, SD, NT, VT T 30 RS, SD, NT, VT	≥ 125 mm (min. F 60A) ≥ 100 mm (min. F 30A) ≥ 125 mm ≥ 100 mm





Aluminium frames

General information, performance overview

	Door function																
Frame configuration	T 30	1 60	1 90	RS	SD 32	SD 37	SD 42	SD 45	SD 48	SD 50	WK 2	WK3	WK 4	88	10	NT	VI
Hardline type UST																	
Hardline type UST / G																	
Hardline type UST / E																	
Hardline type EURO KS																	
Hardline type EURO KS / G																	
Hardline type EURO KS / E																	
Hardline type EURO RS																	
Hardline type EURO RS / G																	
Hardline type USBV																	
Hardline type USBV / G																	
Hardline type USBV/G, double rebate																	
Roundline type EURO Fi																	
Roundline type URS																	
Roundline type URS / G																	
Roundline type URRS																	
Modernline type USTN																	
Modernline type USTN / G																	
Slimline type FZS																	
Slimline type NZS																	
Slimline type FZBS																	

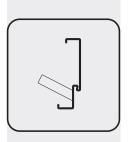
 \square = Solid core door and door with glazing

In combination with the models 3 N and 13 N with 50 mm door leaf thickness, lintel-high, unrebated door sets with a ZFM of up to 1280×2233 mm are available.

For doors with 70 mm door leaf thickness, models 16 N and 5 N, lintel-high door leaf sets with a ZFM of up to 1280 \times 2483 mm are available. The door leaf edge can be manufactured either rebated or unrebated with jamb rebate.

The different frame models can be configurated either as wrap-around frame or as block frame. For the installation as block frame an additional base frame with aluminium profiles, which is included in the Schörghuber delivery set, is to be mounted.





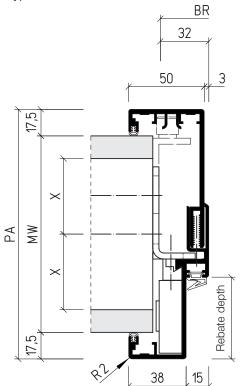
Frames

Aluminium frames

Hardline-Frames

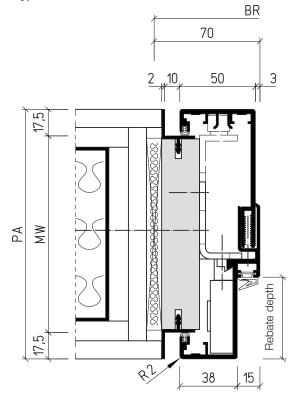
Concrete, masonry

T 30, RS and SD Type UST

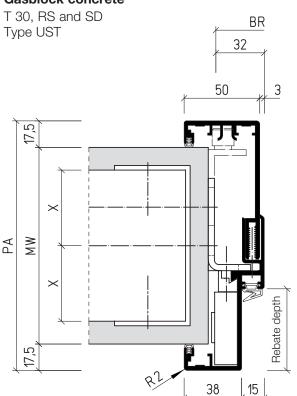


Gypsum plasterboard wall

T 30, RS and SD Type UST



Gasblock concrete

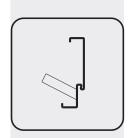




 $\begin{array}{ll} \text{Concrete, masonry} & \geq 50,0 \text{ mm} \\ \text{Gasblock concrete T 30, T 90} \geq 87,5 \text{ mm} \\ \text{Gasblock concrete T 30, RS} & \geq 57,5 \text{ mm} \\ \text{}_{\text{up to 1000 kg door weight}} \\ \text{Gasblock concrete RS} & \geq 75,0 \text{ mm} \\ \end{array}$



Schörghuber

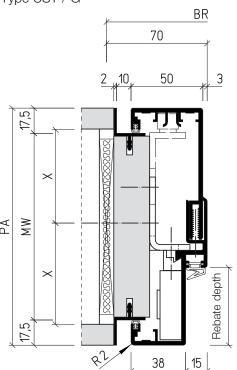


Aluminium frames

Hardline-Frames

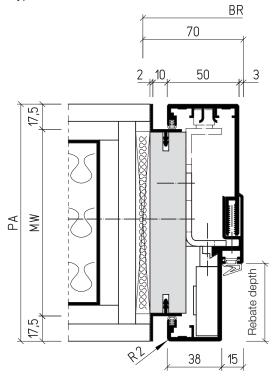
Concrete, masonry

T 30, RS and SD Type UST / G



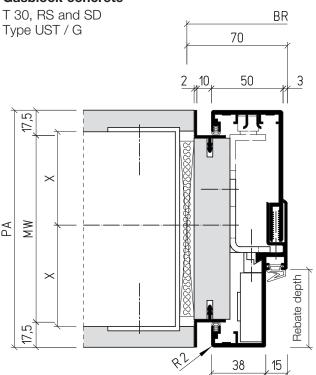
Gypsum plasterboard wall

T 30, RS and SD Type UST / G



5.37

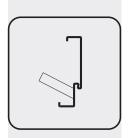
Gasblock concrete



X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm





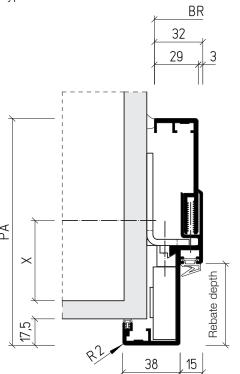
Frames

Aluminium frames

Hardline-Frames

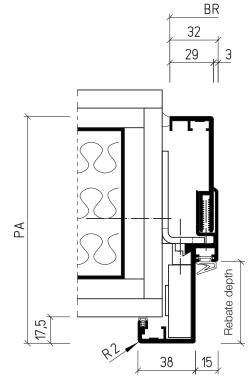
Concrete, masonry

T 30, RS and SD Type UST / E

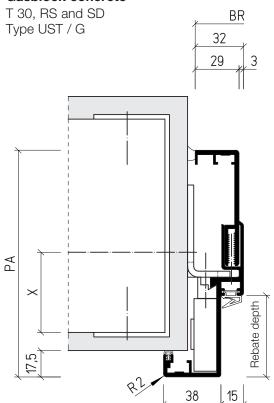


Gypsum plasterboard wall

T 30, RS and SD Type UST / E



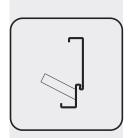
Gasblock concrete





 $\begin{array}{ll} \text{Concrete, masonry} & \geq 50,0 \text{ mm} \\ \text{Gasblock concrete T 30, T 90} \geq 87,5 \text{ mm} \\ \text{Gasblock concrete T 30, RS} & \geq 57,5 \text{ mm} \\ \text{up to 1000 kg door weight} \\ \text{Gasblock concrete RS} & \geq 75,0 \text{ mm} \\ \end{array}$





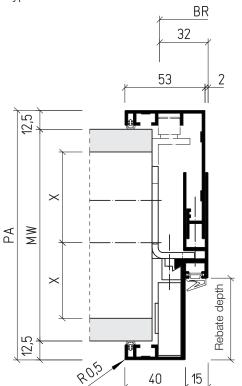
5.37

Aluminium frames

Hardline-Frames

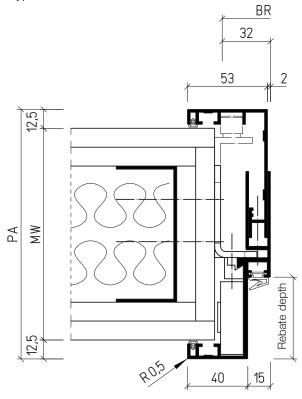
Concrete, masonry

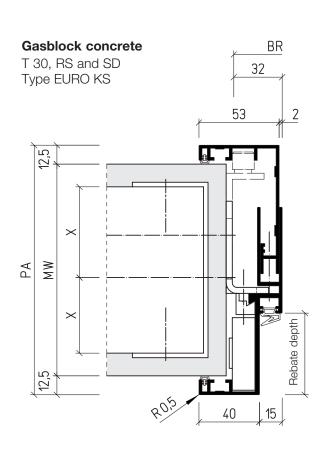
T 30, RS and SD Type EURO KS



Gypsum plasterboard wall

T 30, RS and SD Type EURO KS



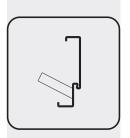


X-Measure

Concrete, masonry $\geq 50,0$ mm Gasblock concrete T 30, T 90 $\geq 87,5$ mm Gasblock concrete T 30, RS $\geq 57,5$ mm up to 100 kg door weight Gasblock concrete RS $\geq 75,0$ mm







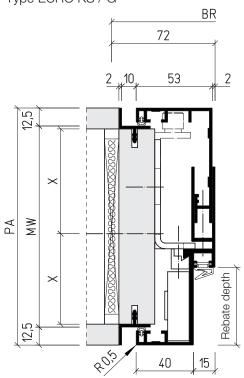
Frames

Aluminium frames

Hardline-Frames

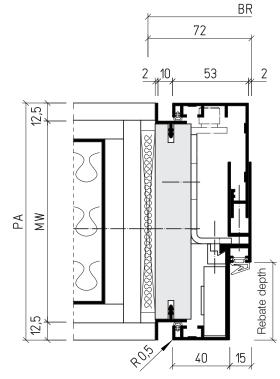
Concrete, masonry

T 30, RS and SD Type EURO KS / G

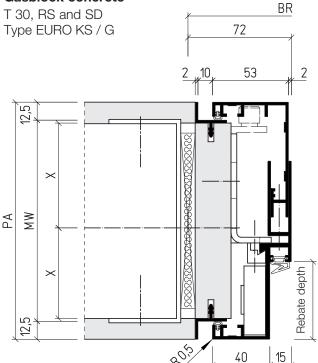


Gypsum plasterboard wall

T 30, RS and SD Type EURO KS / G



Gasblock concrete

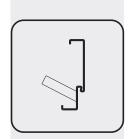


X-Measure

 $\begin{array}{ll} \mbox{Concrete, masonry} & \geq 50,0 \mbox{ mm} \\ \mbox{Gasblock concrete T 30, T 90} \geq 87,5 \mbox{ mm} \\ \mbox{Gasblock concrete T 30, RS} & \geq 57,5 \mbox{ mm} \\ \mbox{up to 100 kg door weight} \\ \mbox{Gasblock concrete RS} & \geq 75,0 \mbox{ mm} \end{array}$



Schörghuber



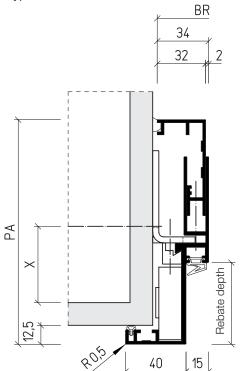
5.37

Aluminium frames

Hardline-Frames

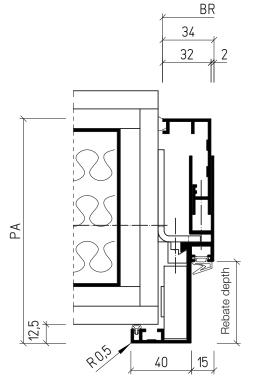
Concrete, masonry

T 30, RS and SD Type EURO KS / E

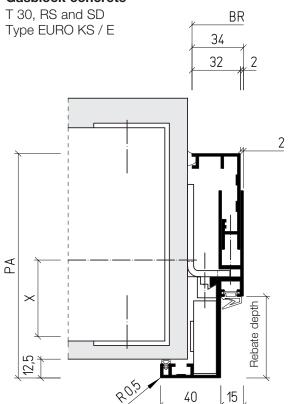


Gypsum plasterboard wall

T 30, RS and SD Type EURO KS / E



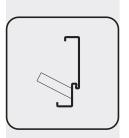
Gasblock concrete





Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm





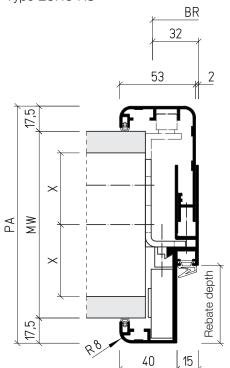
Frames

Aluminium frames

Hardline-Frames

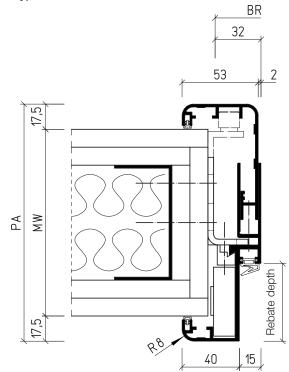
Concrete, masonry

T 30, RS and SD Type EURO RS

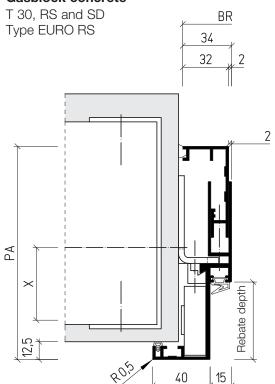


Gypsum plasterboard wall

T 30, RS and SD Type EURO RS



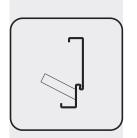
Gasblock concrete





Concrete, masonry \geq 50,0 mm Gasblock concrete T 30, T 90 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm



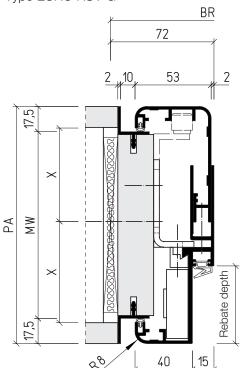


Aluminium frames

Hardline-Frames

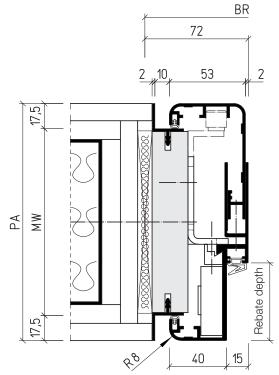
Concrete, masonry

T 30, RS and SD Type EURO RS / G



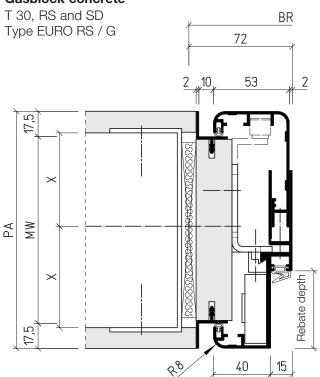
Gypsum plasterboard wall

T 30, RS and SD Type EURO RS / G



5.37

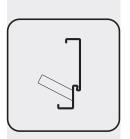
Gasblock concrete



X-Measure

Concrete, masonry $\geq 50,0$ mm Gasblock concrete T 30, T 90 $\geq 87,5$ mm Gasblock concrete T 30, RS $\geq 57,5$ mm up to 100 kg door weight Gasblock concrete RS $\geq 75,0$ mm





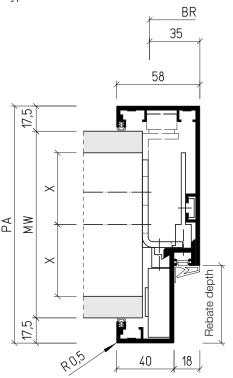
Frames

Aluminium frames

Hardline-Frames

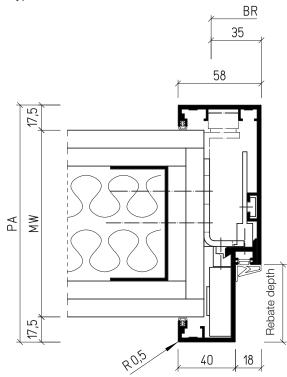
Concrete, masonry

T 30, RS and SD Type USBV

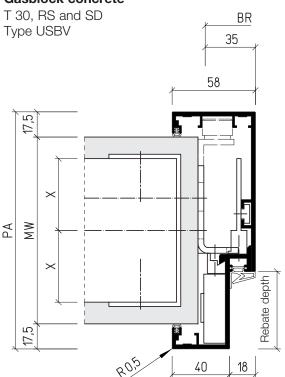


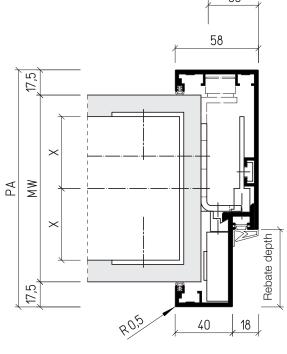
Gypsum plasterboard wall

T 30, RS and SD Type USBV



Gasblock concrete

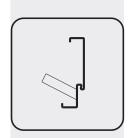




X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm



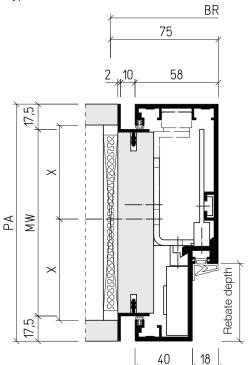


Aluminium frames

Hardline-Frames

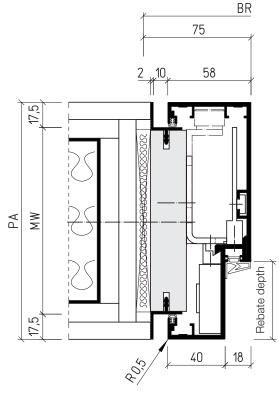
Concrete, masonry

T 30, RS and SD Type USBV / G



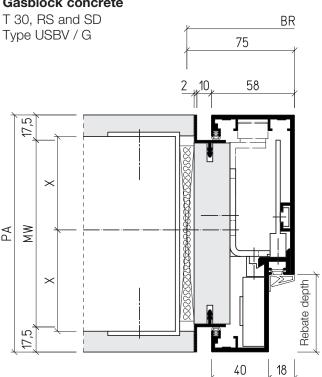
Gypsum plasterboard wall

T 30, RS and SD Type USBV / G



5.37

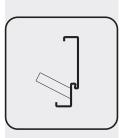
Gasblock concrete



X-Measure

Concrete, masonry $\geq 50,0$ mm Gasblock concrete T 30, T 90 $\geq 87,5$ mm Gasblock concrete T 30, RS $\geq 57,5$ mm up to 100 kg door weight Gasblock concrete RS $\geq 75,0$ mm





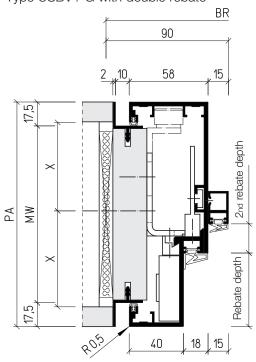
Frames

Aluminium frames

Hardline-Frames

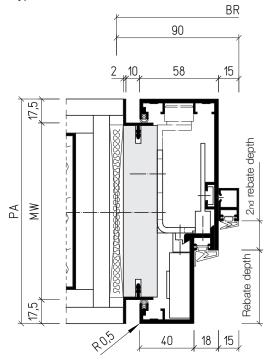
Concrete, masonry

T 30, RS and SD Type USBV / G with double rebate

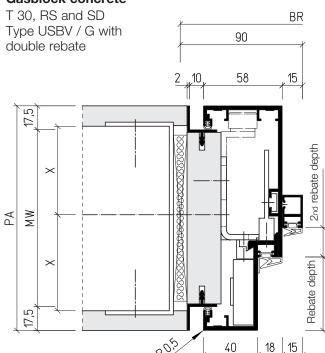


Gypsum plasterboard wall

T 30, RS and SD Type USBV / G with double rebate



Gasblock concrete

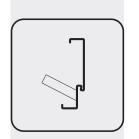




 $\begin{array}{ll} \text{Concrete, masonry} & \geq 50,0 \text{ mm} \\ \text{Gasblock concrete T 30, T 90} \geq 87,5 \text{ mm} \\ \text{Gasblock concrete T 30, RS} & \geq 57,5 \text{ mm} \\ \text{up to 100 kg door weight} \\ \text{Gasblock concrete RS} & \geq 75,0 \text{ mm} \\ \end{array}$







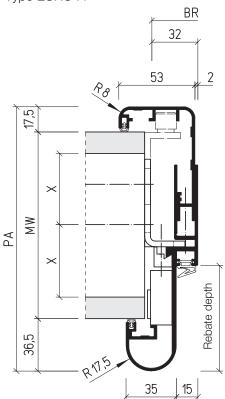
5.38

Aluminium frames

Roundline

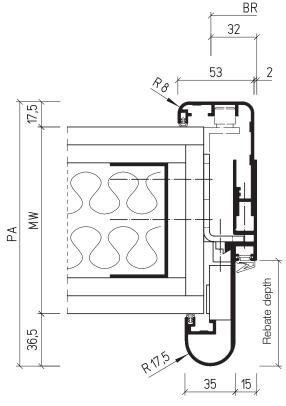
Concrete, masonry

T 30, RS and SD Type EURO Fi

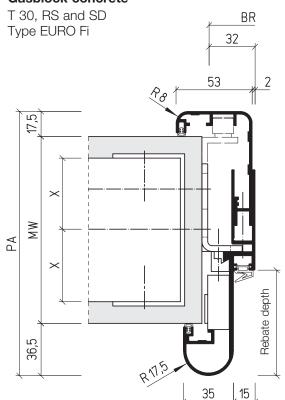


Gypsum plasterboard wall

T 30, RS and SD Type EURO Fi



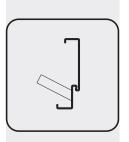
Gasblock concrete





Concrete, masonry $\geq 50,0$ mm Gasblock concrete T 30, T 90 $\geq 87,5$ mm Gasblock concrete T 30, RS $\geq 57,5$ mm up to 100 kg door weight Gasblock concrete RS $\geq 75,0$ mm





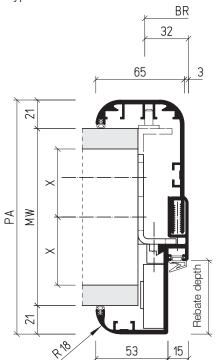
Frames

Aluminium frames

Roundline

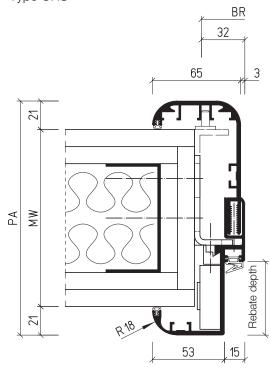
Concrete, masonry

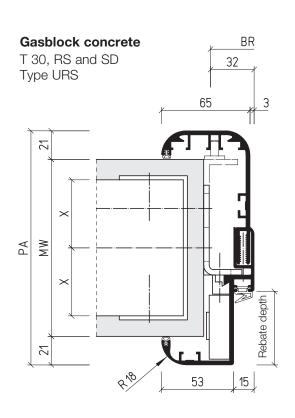
T 30, RS and SD Type URS



Gypsum plasterboard wall

T 30, RS and SD Type URS

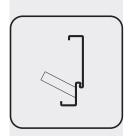






 $\begin{array}{ll} \text{Concrete, masonry} & \geq 50,0 \text{ mm} \\ \text{Gasblock concrete T 30, T 90} \geq 87,5 \text{ mm} \\ \text{Gasblock concrete T 30, RS} & \geq 57,5 \text{ mm} \\ \text{up to 1000 kg door weight} \\ \text{Gasblock concrete RS} & \geq 75,0 \text{ mm} \\ \end{array}$



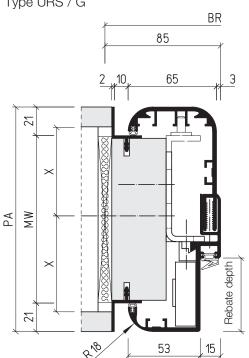


5.38

Aluminium frames Roundline

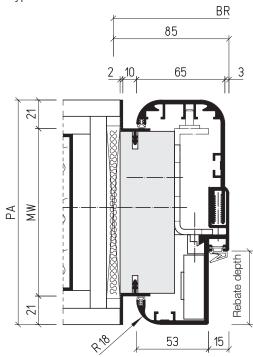
Concrete, masonry

T 30, RS and SD Type URS / G

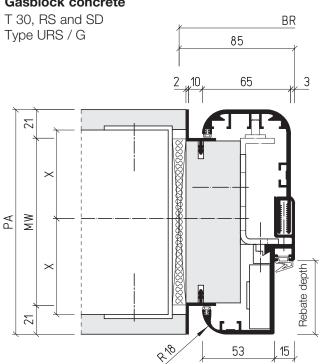


Gypsum plasterboard wall

T 30, RS and SD Type URS / G



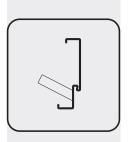
Gasblock concrete



X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm





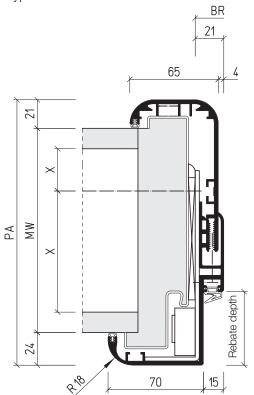
Frames

Aluminium frames

Roundline

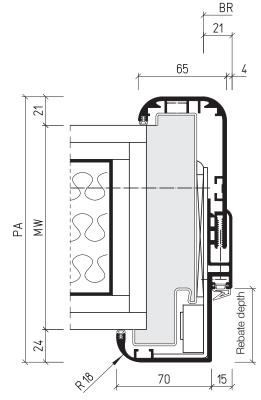
Concrete, masonry

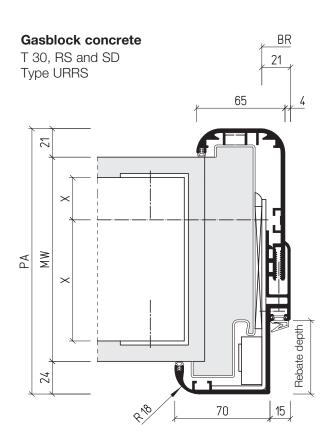
T 30, RS and SD Type URRS



Gypsum plasterboard wall

T 30, RS and SD Type URRS

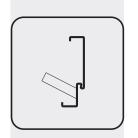






 $\begin{array}{ll} \text{Concrete, masonry} & \geq 50,0 \text{ mm} \\ \text{Gasblock concrete T 30, T 90} \geq 87,5 \text{ mm} \\ \text{Gasblock concrete T 30, RS} & \geq 57,5 \text{ mm} \\ \text{}_{\text{up to 1000 kg door weight}} \\ \text{Gasblock concrete RS} & \geq 75,0 \text{ mm} \\ \end{array}$





Frames

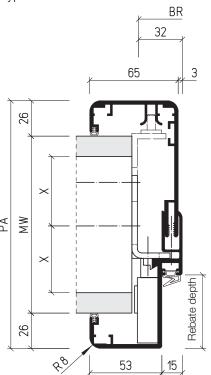
5.39

Modernline

Aluminium frames

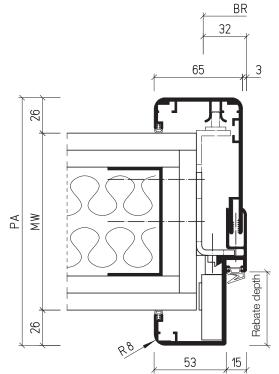
Concrete, masonry

T 30, RS and SD Type USTN

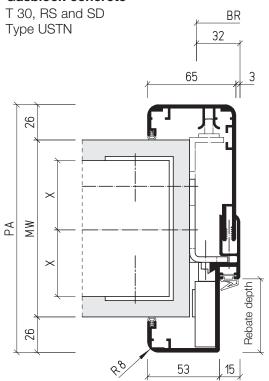


Gypsum plasterboard wall

T 30, RS and SD Type USTN



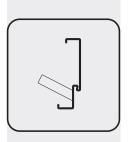
Gasblock concrete





Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm





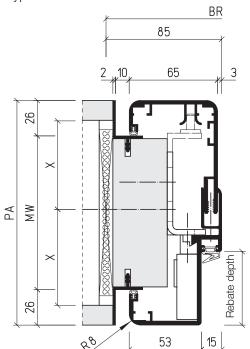
Frames

Aluminium frames

Modernline

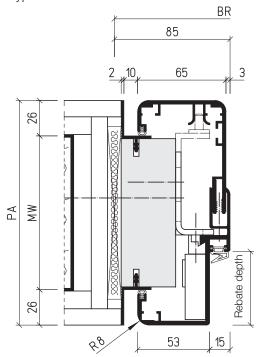
Concrete, masonry

T 30, RS and SD Type USTN / G

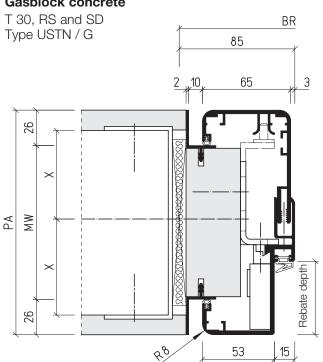


Gypsum plasterboard wall

T 30, RS and SD Type USTN / G



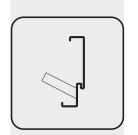
Gasblock concrete





Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30, T 90 ≥ 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to 100 kg door weight Gasblock concrete RS \geq 75,0 mm





Frames

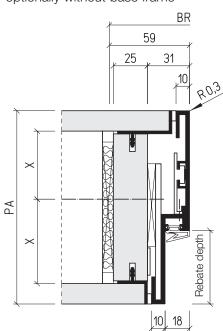
5.40

Aluminium frames

Slimline

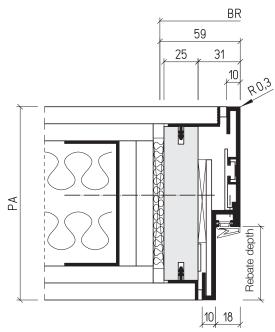
Concrete, masonry

T 30, RS and SD Type FZS / G optionally without base frame

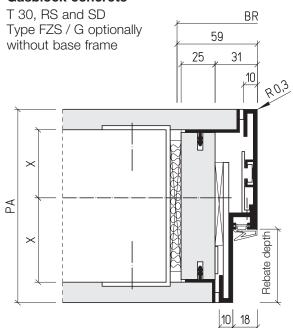


Gypsum plasterboard wall

T 30, RS and SD Type FZS / G optionally without base frame



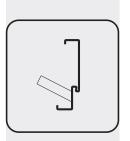
Gasblock concrete





X-Measure

Concrete, masonry $\geq 50,0$ mm Gasblock concrete T 30, T 90 $\geq 87,5$ mm Gasblock concrete T 30, RS $\geq 57,5$ mm up to 100 kg door weight Gasblock concrete RS $\geq 75,0$ mm



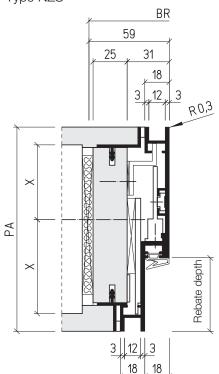
Frames

Aluminium frames

Slimline

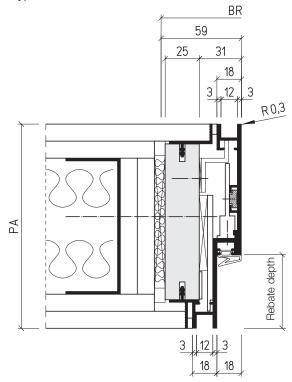
Concrete, masonry

T 30, RS and SD Type NZS

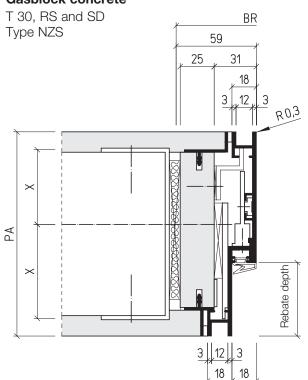


Gypsum plasterboard wall

T 30, RS and SD Type NZS



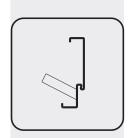
Gasblock concrete



X-Measure

 $\begin{array}{ll} \text{Concrete, masonry} & \geq 50,0 \text{ mm} \\ \text{Gasblock concrete T 30, T 90} \geq 87,5 \text{ mm} \\ \text{Gasblock concrete T 30, RS} & \geq 57,5 \text{ mm} \\ \text{up to 1000 kg door weight} \\ \text{Gasblock concrete RS} & \geq 75,0 \text{ mm} \\ \end{array}$





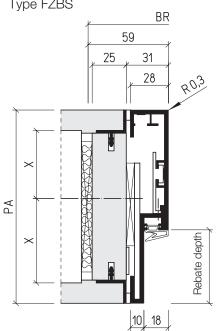
Frames

Aluminium frames

Slimline

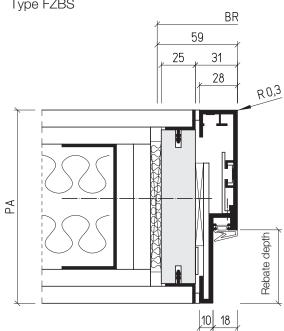
Concrete, masonry

T 30, RS and SD Type FZBS



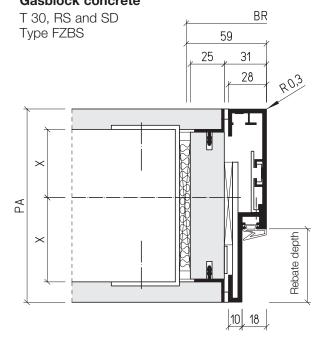
Gypsum plasterboard wall

T 30, RS and SD Type FZBS



5.40

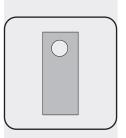
Gasblock concrete





X-Measure

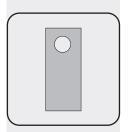
Concrete, masonry $\geq 50,0$ mm Gasblock concrete T 30, T 90 $\geq 87,5$ mm Gasblock concrete T 30, RS $\geq 57,5$ mm up to 100 kg door weight Gasblock concrete RS $\geq 75,0$ mm



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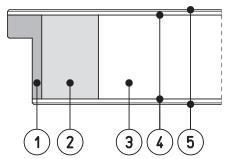
Basics

Technical terms

The minimum requirements for rebated and unrebated doors for internal spaces are defined by DIN 68706.

An interior door according to DIN 68706 is a flat door leaf, which consists mostly of wood or wooden materials.

- 1) Batten
- Special plywood frame
- ③ Intermediate layer
- 4 Cover plate
- ⑤ Top layer



Exceptions are door constructions for special requirements, e.g. Fire- and Smoke-Protection Doors. The door leaf configurations and constructions of Schörghuber Special Doors are determined by the requirements and functions.

Schörghuber Special Doors do not only fulfil the minimum requirements of DIN 68706, but exceed them to meet todays requirement profiles. 1-leaf as well as 2-leaf doors meet the high quality standards which are required due to the usage in heavy-duty and highly frequented areas. Schörghuber Special Doors distinguish from the usual doors in the market by the following, trend-setting details:

Climate category II and stress group E

Due to an especially buckling resistant frame material made of special plywood, all Schörghuber doors by default meet at least the climate category II and the stress group E requirements (except solid wood framed doors).

Door leaf thickness 42 mm

With the Types 1 N and 2 N Schörghuber features heavy-duty door constructions as complete door sets or as heavy-duty door leafs for on site provided steel frames.

Door leaf thickness 50 mm / 70 mm

Due to the door leaf thickness of 50 mm respectively 70 mm the behaviour of the door leaf in areas with changing climate, the mechanical stress resistance and the Sound-Insulation capacity are noticeably improved.

Optimised rebate depths

A rebate depth of at least 35 mm respectively 52 mm for rebated 50 mm respectively 70 mm thick doors allows a better lock position compared to a norm rebate depth. The outcome of this is a higher mechanical and technical stress resistance and operational reliability, especially for the sensitive lock area.

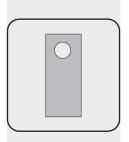
Please note that only the concerted and approved set of door leaf, frame and fittings enables the door set to fulfil the following functions:

- Fire-Protection
- Smoke-Protection
- Sound-Insulation
- Burglar-Protection

- Radiation-Protection
- Bullet-Resistant
- Wet Room Qualities
- Heavy-duty

The modular design of Schörghuber Special Doors is trend-setting for the state of the art technology.

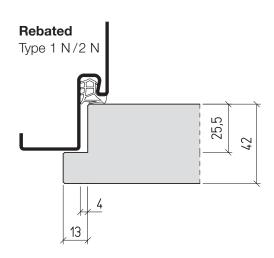


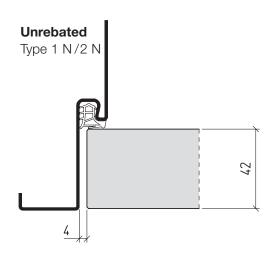


Door leaf

Edge geometries

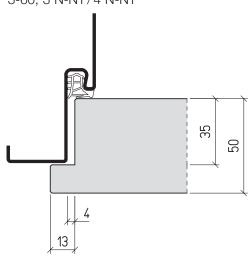
Configurations





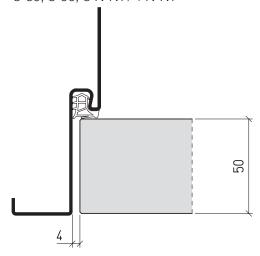
Rebated

Type 3 N/4 N, 13 N/14 N, 3-60, 3 N-NT/4 N-NT



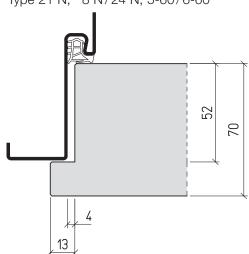
Unrebated

Type 3 N/4 N, 13 N/14 N, 3-60, 3-90, 3 N-NT/4 N-NT



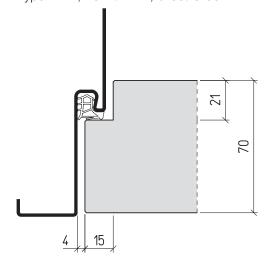
Rebated

Type 16 N/26 N, Type 5 N/ 6 N (Rw,P 37 dB), Type 21 N, 8 N/24 N, 5-60/6-60

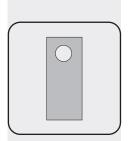


Unrebated with jamb rebate

Type 16 N/26 N, Type 5 N/ 6 N (Rw,P 37 dB), Type 21 N, 8 N/24 N, 5-60/6-60





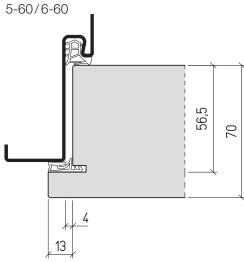


Edge geometries

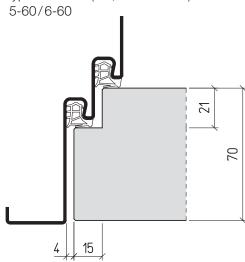
Configurations

Rebated

Type 5 N/6 N (Rw,P 42/45 dB)

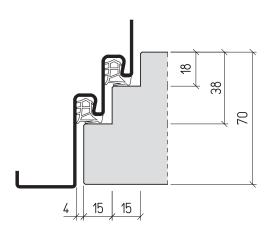


Unrebated with jamb rebate Type 5 N/6 N (Rw,P 42/45 dB)



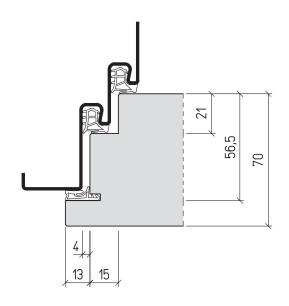
Unrebated with double jamb rebate

Type 5 N / 6 N (Rw,P 37 / 42 / 45 dB)

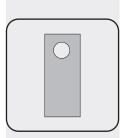


Rebated with jamb rebate

Type 17 N (Rw,P 48 dB)







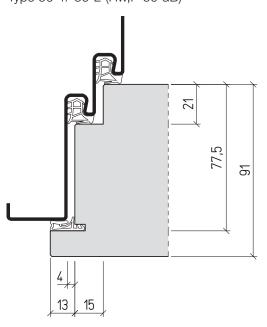
Door leaf

Edge geometries

Configurations

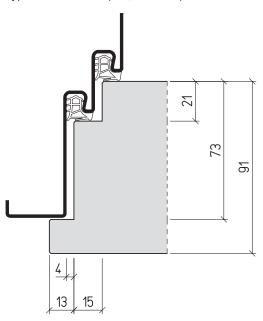
Rebated with jamb rebate

Type 50-1/50-2 (Rw,P 50 dB)



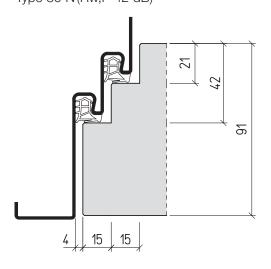
Rebated with jamb rebate

Type 80-1 / 80-2 (Rw,P 42 dB)



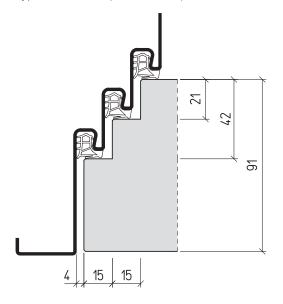
Unrebated with double jamb rebate

Type 80 N(Rw,P 42 dB)

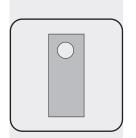


Unrebated with double jamb rebate

Type 50-1/50-2 (Rw,P 50 dB)





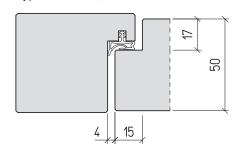


Edge geometries

Configurations

Unrebated with jamb rebate

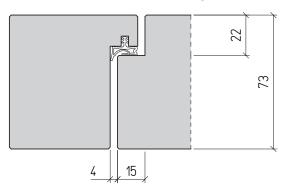
Type 3 N/4 N, 13 N/14 N



Unrebated with jamb rebate

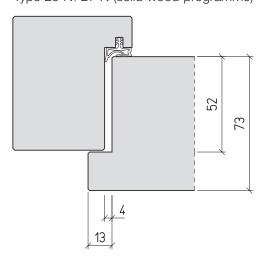
Type 25 N/27 N (solid wood programme)

6.2



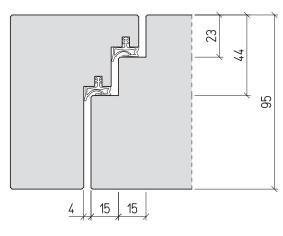
Rebated

Type 25 N/27 N (solid wood programme)



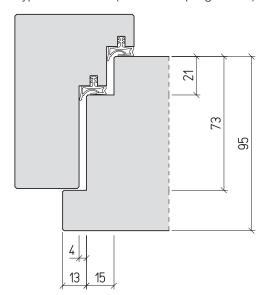
Unrebated with jamb rebate

Type 25 N/27 N (solid wood programme)



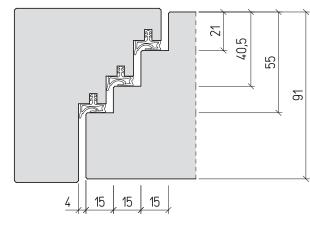
Rebated with jamb rebate

Type 25 N/27 N (solid wood programme)

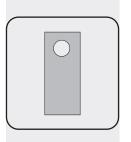


Unrebated with triple jamb rebate

Type 50-1/50-2





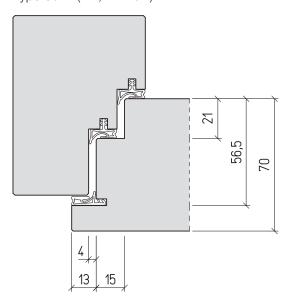


Door leaf

Edge geometries

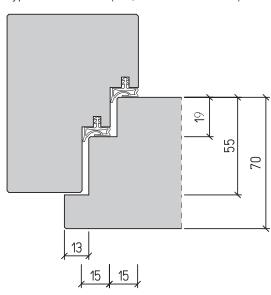
Configurations

Rebated with jamb rebate Type 17 N (Rw,P 48 dB) Type 35 N (Rw,P 42 dB)



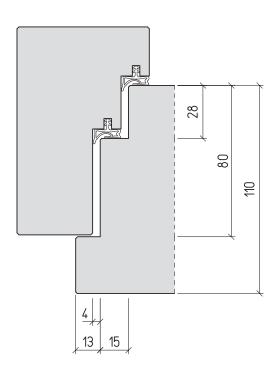
Rebated with jamb rebate

Type 16 N / 26 N Type 5 N / 6 N (Rw,P 37 / 42 / 45 dB)



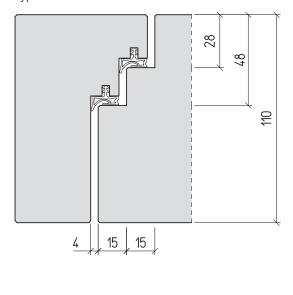
Rebated with jamb rebate

Type 10 N/20 N

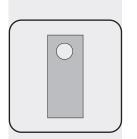


Unrebated with double jamb rebate

Type 10 N/20 N, Type 91 N/92 N





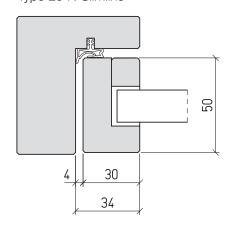


Edge geometries

Configurations

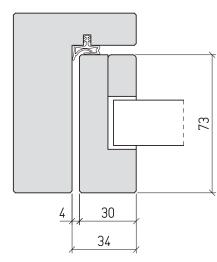
Unrebated

Type 25 N Slimline



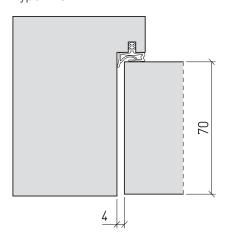
Unrebated

Type 27 N Slimline



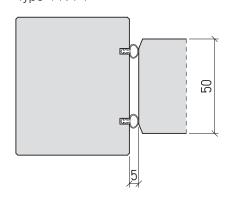
Unrebated

Type 120 -1

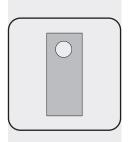


Unrebated

Type 4 N-PT







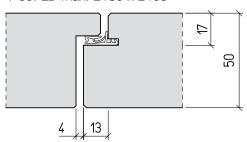
Door leaf

Edge geometries

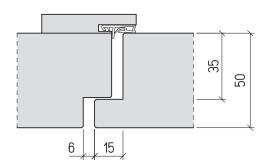
Intermediate joint

Intermediate joint for 2-leaf doors

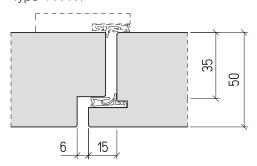
Type 4 N, with shot-bolt lock T 30: LD max. 2186 x 2468



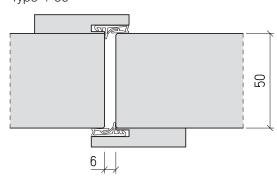
Type 4 N, 14 N



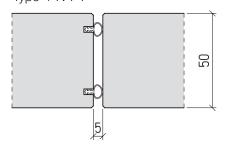
Type 4 N-NT



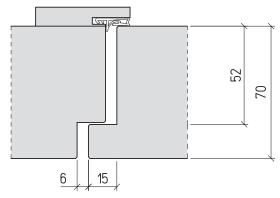
Type 4-60



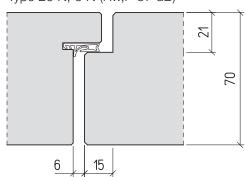
Type 4-N-PT



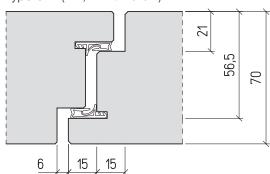
Type 24 N, 6-60



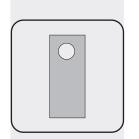
Type 26 N, 6 N (Rw,P 37 dB)



Type 6 N (Rw,P 42/45 dB)





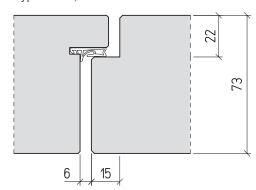


Edge geometries

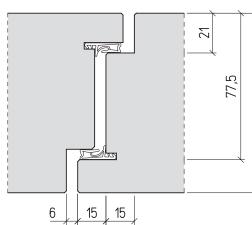
Intermediate joint

Intermediate joint for 2-leaf doors

Type 27 N, 27 N Slimline

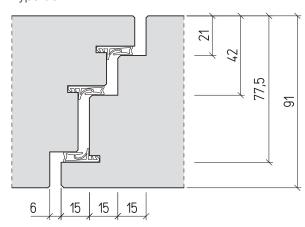


Type 27 N

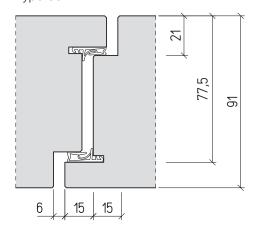


6.2

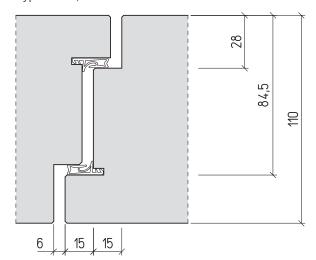
Type 50-2



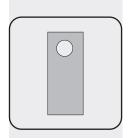
Type 80-2



Type 20 N, 92 N







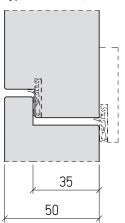
Door leaf

Edge geometries

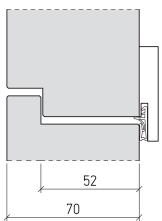
Top panel joint

Top panel for 1- and 2-leaf doors

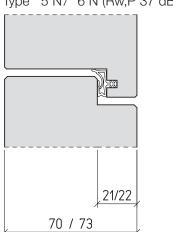
Type 3 N/4 N, 13 N/14 N



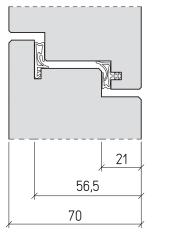
Type 8 N/24 N



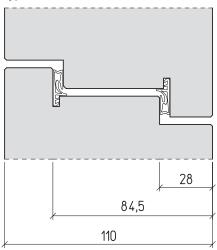
Type 16 N/26 N, 25 N/27 N Type 5 N/ 6 N (Rw,P 37 dB)



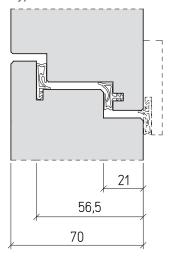
Type 5 N/6 N (Rw,P 42 dB)



Type 10 N/20 N



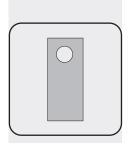
Type 17 N





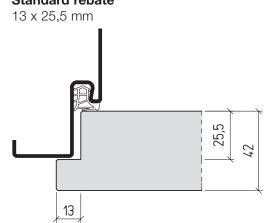
Door leaf thickness of 50 mm with rabbet ledge if:

- 1-leaf doors with integrated door closer
- 2-leaf doors T 30 and with integrated door closer

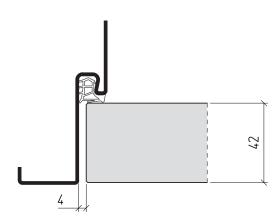


Edge geometries Frames provided by customer



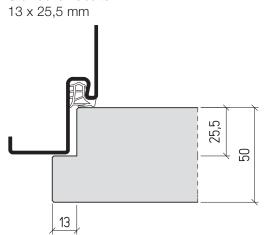


Unrebated

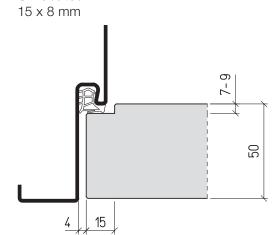


6.2

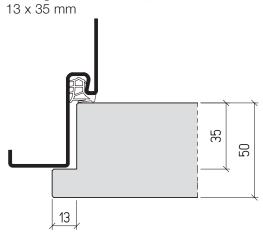
Standard rebate



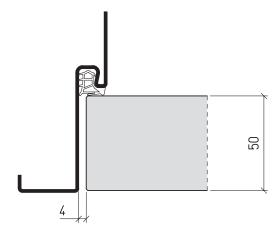
Unrebated



Schörghuber standard, rebated

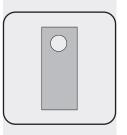


Schörghuber standard, unrebated



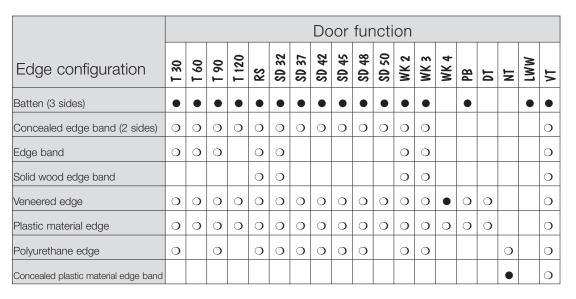


Schörghuber



Edge configuration

Performance overview



Standard

O On request

T 30 = T 30 Fire-Protection
T 60 = T 60 Fire-Protection
T 90 = T 90 Fire-Protection
T 120 = T 120 Fire-Protection

RS = Smoke-Protection

\$D 32 = Sound-Insulation Rw,P 32 dB **\$D 37** = Sound-Insulation Rw,P 37 dB

\$D 42 = Sound-Insulation Rw,P 42 dB **\$D 45** = Sound-Insulation Rw,P 45 dB

\$D 48 = Sound-Insulation Rw,P 48 dB

\$D 50 = Sound-Insulation Rw,P 50 dB

WK 2 = Burglar-Protection WK 2
WK 3 = Burglar-Protection WK 3
WK 4 = Burglar-Protection WK 4

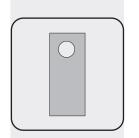
PB = Radiation-ProtectionDT = Bullet-Resistant M 3

NT = Wet Room LWW = Air, water, wind

(external areas)

VT = Solid core





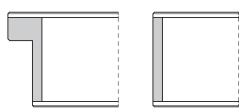
Edge configuration

Batten and edge band

Rebated edge configuration

Unrebated edge configuration

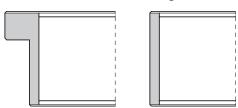
Batten



Solid wood edge concealed by a cover plate. The cover plate (HDF) is visible underneath the veneer and can only be covered with veneer, foil or a RAL-coating.

By default battens are made of solid wood (white or red wood). On request a configuration in beech, ash, hemmlock, oak, maple, alder and other wood types (on request) is possible.

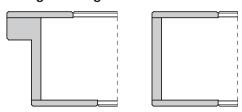
Concealed solid wood edge band



The concealed solid wood edge band is only covered by the top layer. Veener or HPL are directly bonded to the solid wood edge band. Concealed edge bands are attached on two

sides (longitudinal edges). A configuration in beech, ash, hemmlock, oak, maple, alder and other wood types (on request) is possible as well.

Visible solid wood edge band Design Schörghuber

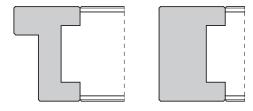


By using a visible edge band, the edge is highlighted in contrast to the door leaf surface. Top layer and edge band are separated by a V-joint.

Visible edge bands can be attached on either two, three or circumferential on four sides.

The width is by default 35 mm, up to a maximum of 100 mm.

Visible solid wood edge band

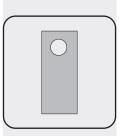


By using a visible solid wood edge band, the edge is highlighted in contrast to the door leaf surface. Top layer and edge band are separated by a V-joint.

Visible edge bands can be attached on either two, three or circumferential on four sides.

The width is by default 35 mm, up to a maximum of 60 mm.





Door leaf 6.3

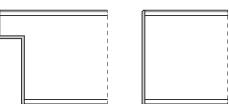
Edge configuration

Veneered or plastic material edge or plastic material edge band

Rebated edge configuration

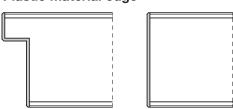
Unrebated edge configuration

Veneered edge



For doors with wooden surface a 3-sided genuine wood veener edge can be attached. For special veneers the veneer edge can be made available for an oder of at least 10 doors.

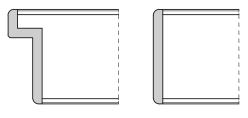
Plastic material edge



Doors with a CPL surface are equipped with a matching 3-sided plasic material edge from out edge collection.

Doors with laminate surface can also be equipped with a plasic material edge from out edge collection.

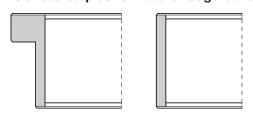
Polyurethane edge



The polyurethane edge (PU) is a 3-sided, liquid edge band, which is cast on the door leaf by using the edge casting method. The thickness is approx. 5 mm, towards the surface the edge is topped of with a 3 mm radius on all sides. Polyurethane is a light fast casting resin which can be post-planed. It is available in all RAL colours. Due to its high stress, chemical and splash water resistance it is perfectly suitable for the usage with heavy-duty doors in areas such as hospitals and schools.

The minimum order quantity is 25 door leafs in matching edge colour.

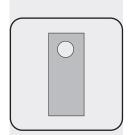
Concealed plastic material edge band



This edge, in combination with HPL-coating on both sides, is reserved for the usage in damp and wet rooms.

Available are: white, grey and beige.





Edge configuration

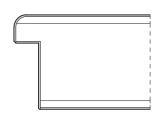
Round edge, Softline doors

Doors with round edges

We distinguish beween two different manufacturing processes:

Round edge at the rebate

(Only possible for rebated doors)



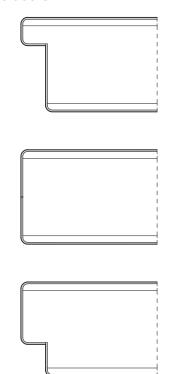
The surface coating is modeled to the vertical edges of the door leaf using the postforming process,

A veneer or plasic material edge, matching the surface, is glued to the rebate and on the upper edge.

For 2-leaf doors the intermediat joint is configured with an angular edge.

Possible door leaf thicknesses: 42, 50, 70 mm Further edge configurations on request.

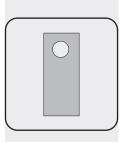
Softline doors



For this configuration the door leaf is profiled according to the rebate geometry and the surface coating is then applied seamlessly and modeled over the vertical edges, the joint is then at the inner rebate edge respectively at the middle of the edge for unrebated doors. The upper edge is coated matching the surface, the lateral edges are rounded as well. For 2-leaf doors the intermediat joint is configured with an angular edge.

Possible door leaf thicknesses: 42, 50, 70 mm Further edge configurations on request.





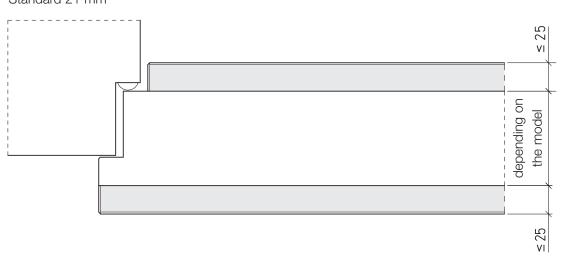
Door leaf

Additional wood panelling

Holohedral additional wood panelling

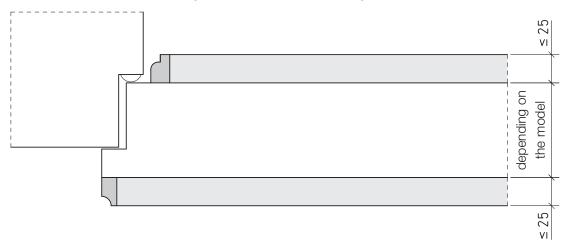
MDF-Additional wood panelling (chipboard) on both sides

Additional wood panelling with veneered edge Standard 21 mm



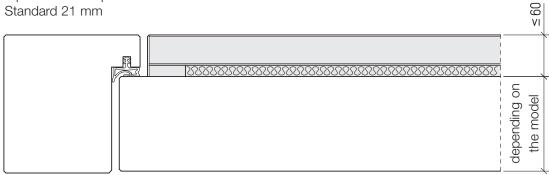
Additional wood panelling with solid wood edge

Additional wood panelling edge Standard, 21 mm, angular Alternativ shapes on request (e.g. chamfer or other profile edges as illustrated)

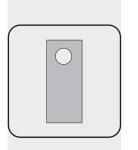


Oversize additional wood panelling on one side

Additional wood panelling with veneered edge applied on top of a hollow space filled with mineral wool. Standard 21 mm



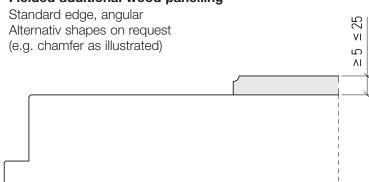


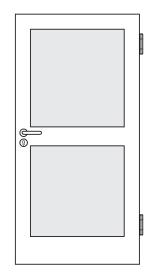


Additional wood panelling

Frame-like and fielded additional wood panelling

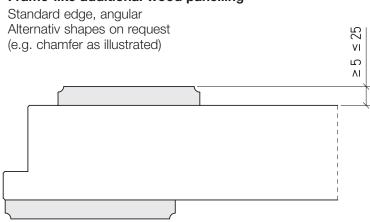


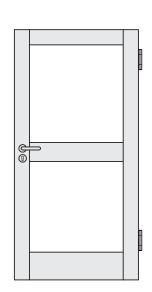




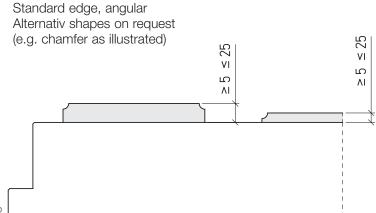
6.4

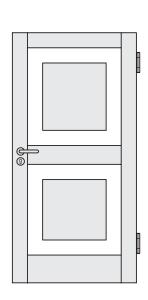
Frame-like additional wood panelling



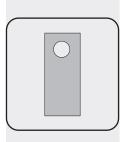


Frame-like and fielded additional wood panelling







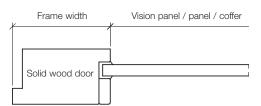


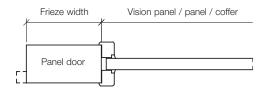
Minimum frieze widths

Overview

In general

At Schörghuber minimum frieze widths are measured from the rebate side (except vision panels according to DIN 68706).





Model relevant minimum frieze / minimum frame widths

Fire- and Smoke-Protection Doors					
Туре	Top and side frieze	Bottom frieze	Intermediate frieze		
1 N	120 mm	220 mm	60 mm		
3 N/4 N (-NT)	90 / 120 mm	120 mm	60 mm		
16 N / 26 N 1) 4)	120 mm	120 mm	60 mm		
5 N/6 N 4)	120 mm	120 mm	60 mm		
35 N ⁴⁾	160 mm	300 mm	60 mm		
10 N / 20 N	200 mm	300 mm	60 mm		
25 N / 27 N ²⁾ with middle frieze	75 mm	105 mm	70 mm		
25 N / 27 N ²⁾ without middle frieze	105 mm	105 mm	70 mm		
21 N	200 mm	400 mm	_		
8 N / 24 N ^{3) 1)}	90 mm	120 mm	90 mm		
91 N / 92 N	70 mm	70 mm	30 mm		
3-60 / 4-60	120 mm	220 mm	60 mm		
5-60 / 6-60	120 mm	220 mm	60 mm		
25 N / 27 N Slimline	30 mm ⁵	without / 30 mm	_		

¹⁾ Top and side frieze 160 mm, bottom 300 mm from door rebate dimension 1273 x 2473 mm

Circumferential frame width 70 mm, intermediate edge GF 70 mm, SF 85 mm up to clear opening dimsions Type 25 N: 1061 x 2218 mm, Type 27 N: 2186 x 2218 mm Circumferential frame width 70 mm, intermediate edge GF and SF 83 mm up to clear opening dimsions Type 25 N: 1311 x 2968 mm, Type 27 N: 2686 x 2968 mm Circumferential frame width 120 mm from TFM 1458 x 2972 mm

⁵⁾ For model 27 N Slimline, frieze widths on the intermediate edge 75 mm



Minimum frieze width is 240 mm for lever configurations with rectangular or square backplate or flush sports hall lever.



Depending on the door set size and hardware configuration the frame width can be reduced further:

 $^{^{3)}}$ Top and side frieze 120 mm, bottom 220 mm from door rebate dimension 1084 x 2223 mm

⁴⁾ For Burglar-Protection-Doors, top and side frieze 160 mm, bottom 300 mm

Minimum frieze widths

Overview

Sound-Insulation-, Radiation-Protection-, Wet Room and Solid Core Doors					
Туре	Top and side frieze	Bottom frieze	Intermediate frieze		
1 N	90 mm	120 mm	60 mm		
3 N/4 N	90 mm	120 mm	60 mm		
13 N / 14 N	90 mm	120 mm	60 mm		
16 N / 26 N ⁴⁾	90 mm	120 mm	60 mm		
5 N/6 N 4)	120 mm	120 mm	60 mm		
35 N ⁴⁾	160 mm	300 mm	60 mm		
25 N / 27 N ²⁾ with middle frieze	75 mm	75 mm	70 mm		
25 N / 27 N ²⁾ without middle frieze	105 mm	105 mm	70 mm		
25 N / 27 N Slimline	30 mm ⁵	without / 30 mm	_		

6.5

Circumferential frame width 70 mm, intermediate edge GF 70 mm, SF 85 mm up to clear opening dimsions Type 25 N: 1061 x 2218 mm, Type 27 N: 2186 x 2218 mm Circumferential frame width 70 mm, intermediate edge GF and SF 83 mm up to clear opening dimsions Type 25 N: 1311 x 2968 mm, Type 27 N: 2686 x 2968 mm Circumferential frame width 120 mm from TFM 1458 x 2972 mm

Note!

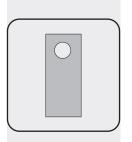
Minimum frieze width is 240 mm for lever configurations with rectangular or square backplate or flush sports hall lever.



²⁾ Depending on the door set size and hardware configuration the frame width can be reduced

⁴⁾ For WK 2 / WK 3 top and side frieze 160 mm, bottom 300 mm

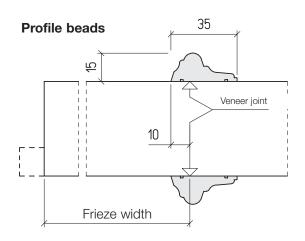
⁵⁾ For model 27 N Slimline, frieze widths on the intermediate edge 75 mm



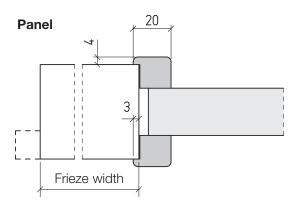
6.6

Style doors

Profile beads, panel and coffers



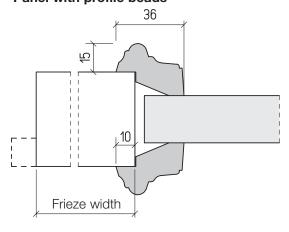
According to the field segmentation the profile beads (standard TS 7) are attached to the door leaf surface. In order to simulate the appearance of a solid wooden door, the veneer on doors with attached profile beads is frame-like structured around the fields. The veneer joint complies with the predetermined frieze width.



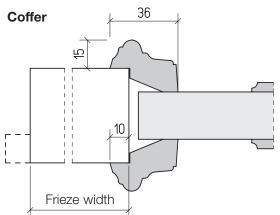
In contrast to a door with attached profile beads, the door leaf is equipped with an actual embedded panel. The panel is either framed with a veneered panel bead or a solid wooden bead.

The panel itself is flush. The thickness of the panel depends on the model and function of the door.

Panel with profile beads



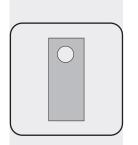
On request a door leaf with panel can be equipped with a profile bead (standard TS 7) instead of a flush panel bead.



The effect of the actual Style Door is enhanced by additional coffers.

The thickness of the coffer depends on the door leaf thickness and the door function. The actual embedded coffers are framed with profile beads (standard TS 7).





6.6

Style doors

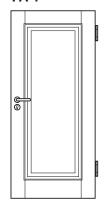
Field segmentations (FA)

The illustrated field segmentations are conform with the Schörghuber Standard, the fields can be equipped with either attached profile beads, panels or coffers, combinations with vision panels are available as well.

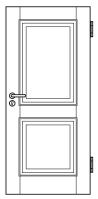
Other field segmentations or dimensions differing from the minimum frieze widths are possible, but depend on the function of the door.

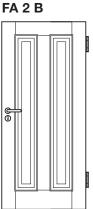
Illustrated are versions for 1-leaf doors, but the configurations are available for 2-leaf doors as well.

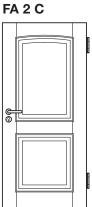
FA₁

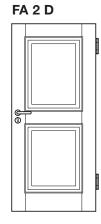


FA 2 A

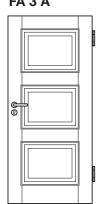




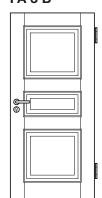




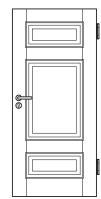
FA3A



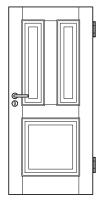
FA 3 B



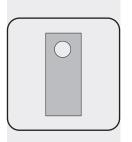
FA3C



FA 3 D







Style doors

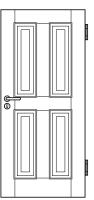
Field segmentations (FA)

The illustrated field segmentations are conform with the Schörghuber Standard, the fields can be equipped with either attached profile beads, panels or coffers, combinations with vision panels are available as well.

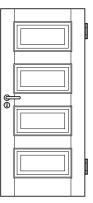
Other field segmentations or dimensions differing from the minimum frieze widths are possible, but depend on the function of the door.

Illustrated are versions for 1-leaf doors, but the configurations are available for 2-leaf doors as well.

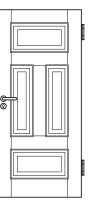
FA 4 A



FA 4 B

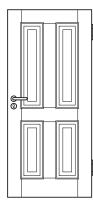


FA 4 C

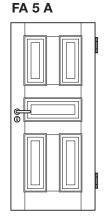


FA 4 D

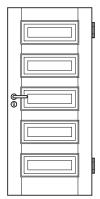
6.6



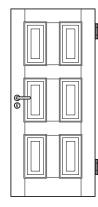
- A - A



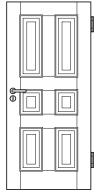
FA 5 B



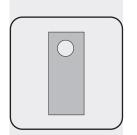
FA 6 A



FA 6 B







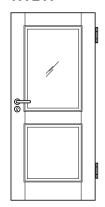
6.6

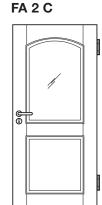
Style doors

In combinationen with vision panel

Glazing and attached profile bead

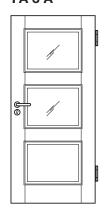




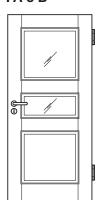


The illustrated configurations are examples, different segmentations or different vision panel shapes are possible).

Glazing and panel FA 3 A

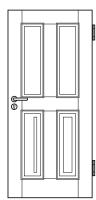




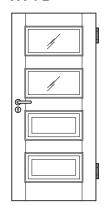


The illustrated configurations are examples, different segmentations or different vision panel shapes are possible, as long as they are conform with the function-depending minimum frieze widths.

Glazing and coffer FA 4 A



FA 4 B

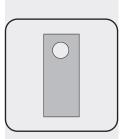


The vision panel shapes as well as the field segmentation are arbitary, as long as they are conform with the function-depending minimum frieze widths.

Note!

All configurations are also possible for 2-leaf doors.



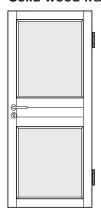


Door leaf

Style door

Solid wood framed door

Solid wood framed door



Besides the standard vision panels of solid wood framed doors, the following options can be realised:

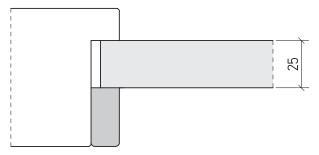
- Panels
- Coffer
- Panels version II

The panel beads for solid wood framed doors are flush with the frame on one side.

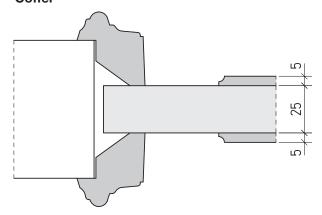
For the configuration with coffer the profile panel bead TS 7 is used on both sides.

The panel version II is inserted flush on both pull- and push side.

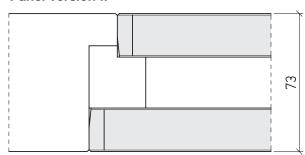
Panel



Coffer



Panel version II



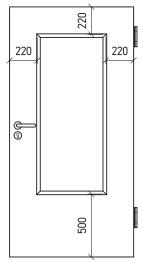




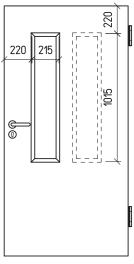
Vision panels (LA)

Configurations

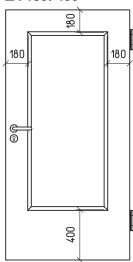
Standard



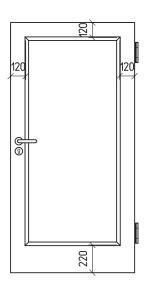
LA 215/1015 mm



LA 180/400

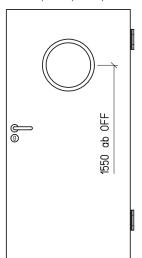


Framed vision panel

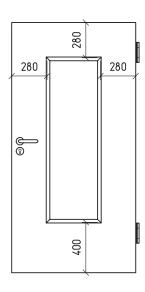


Porthole

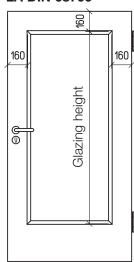
ø 350, 400, 500, 650 mm



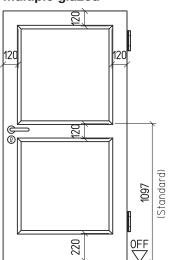
LA 280/400



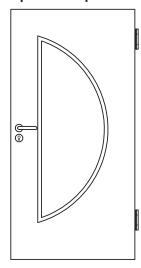
LA DIN 68706



Multiple glazed



Special shape





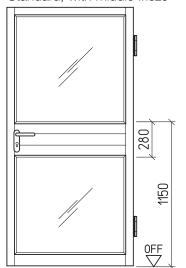
Schörghuber

Vision panels (LA)

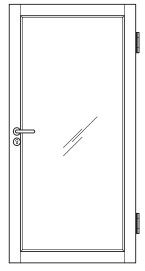
Versions of the solid wood framed door

MT

Standard, with middle frieze



MT 1 Without middle frieze



Minimum frame widths

- with middle frieze ≥ 280 mm side/top/bottom 75/75/105 mm

6.7

- without middle frieze, side/top/bottom 105 mm

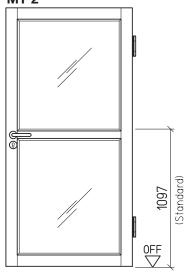
Frame width circumferential 135 mm from door rebate dimension 1273 x 2348 mm

 max. frame width 135 mm, as interlinked frame profile up to 280 mm

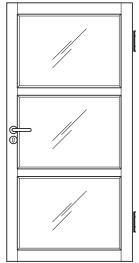
Bottom frieze width

MT 1, MT 2 and MT 3
 Bottom frieze width 195 mm
 from door rebate dimension 1080 mm

MT 2



MT 3



Cross bars

≥ 70 mm < 90 mm

Intermediate frieze

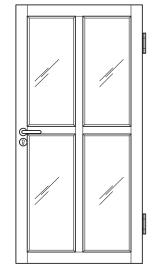
≥ 90 mm < 280 mm

Middle frieze

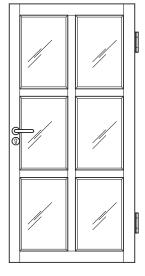
≥ 280 mm ≥ 430 mm

Instead of vision panels, the fields may also be equipped, either partly or entirely, with panels and/or coffers.

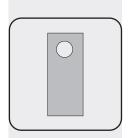
MT 4



MT 6







Vision panels (LA)

DIN 68706

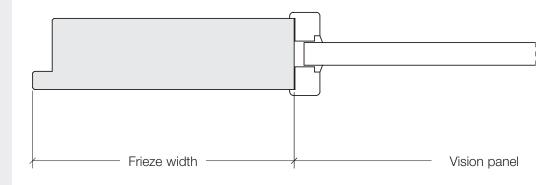
Vision panel according to DIN 68706

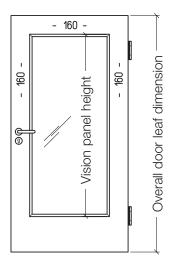
According to DIN 68706, part 1 vision panel heights are standardised depending on the door leaf height.

6.7

The top and side friezes are given with 160 mm. For example the vision panel height for a door leaf height of 2110 mm would be 1550 mm. Therefore the bottom frieze width would be 400 mm.

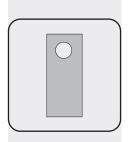
Even though the vision panel height for door leafs with dimensions from 2059 mm up to 2173 mm stay constant, the bottom frieze width vary from 349 mm up to 463 mm. That means, the bottom frieze width is variable for in-between door leaf sizes.





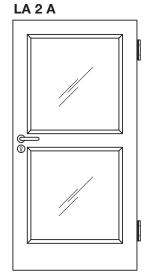
Height of vision panel depending on outer door leaf dimension	Outer door leaf dimension		
	acc. to DIN	also true for	
1300 mm	1860 mm	1798 - 1923 mm	
1425 mm	1985 mm	1924 - 2058 mm	
1550 mm	2110 mm	2059 - 2173 mm	
1675 mm	2235 mm	2174 - 2298 mm	



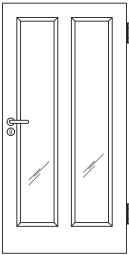


Vision panels (LA)

Versions of the multiple glazed door







The illustrated multiple glazed doors are examples, different segmentations or different vision panel shapes are possible as long as they are conform with the minimum frieze widths (depending on model and function).

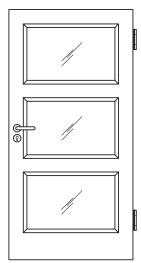
6.7

There are no verified Sound-Insulation data for multiple glazed doors.

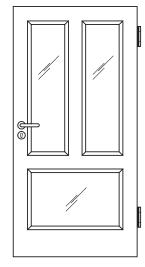
Instead of vision panels, the fields may also be equipped with either panels and/or coffers.

Intermediate friezes are carried out by default with 120 mm width. On request the intermediate frieze widths can be reduced down to 60 mm.

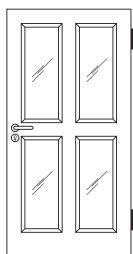




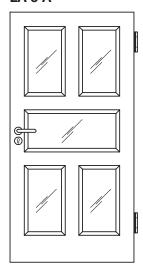
LA 3 B



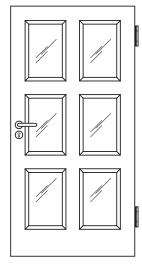
LA 4 A



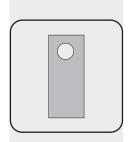
LA 5 A



LA 6 A





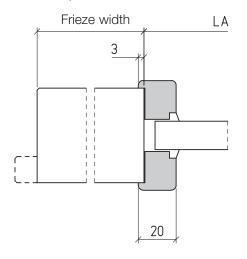


Vision panels (LA)

Glazing beads

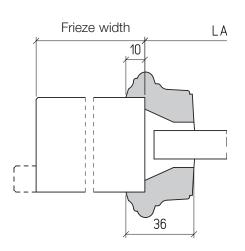
Wooden glazing bead

Standard, veneered



Wooden glazing bead

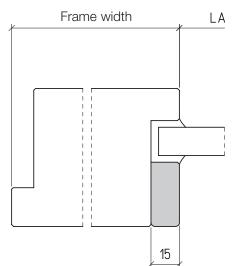
Profile beads



Wooden glazing bead

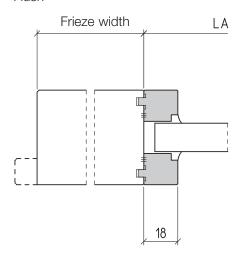
Unrebated

Standard for the solid wood programme



Wooden glazing bead

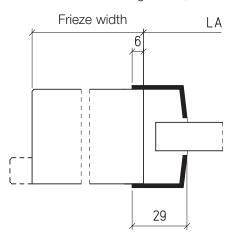
Flush



Aluminium glazing bead

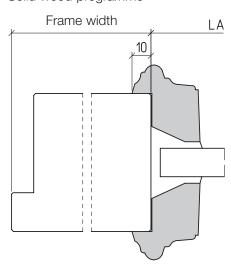
Bare aluminium, F 1, F 2 anodised or stainless steel configuration, standard for porthole

6.7



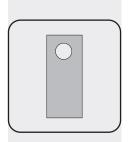
Wooden glazing bead

Profile beads Solid wood programme





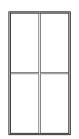
Schörghuber



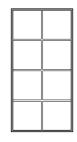
Vision panels (LA)

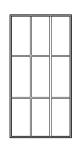
Decorative cross bars

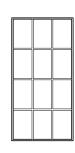
Segmentation of decorative cross bars











6.7

4 Fields

6 Fields

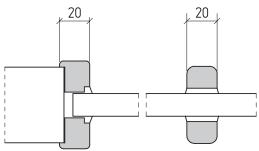
8 Fields

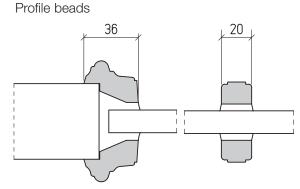
9 Fields

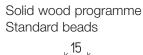
12 Fields

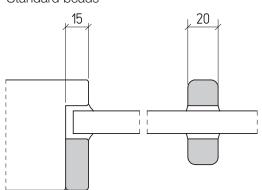
Configuration of cross bars

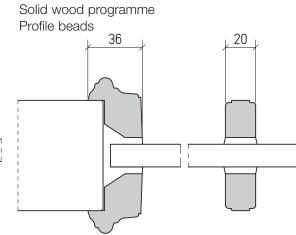
Standard beads













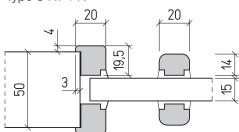
6.7

Vision panels (LA)

Glazing beads and decorative cross bars

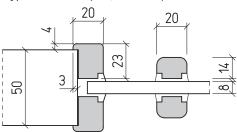
T 30

Type 3 N/4 N



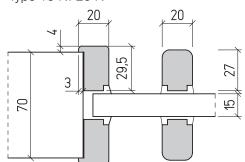
RS, SD 32, VT

Type 3 N/4 N (Rw,P 32 dB)



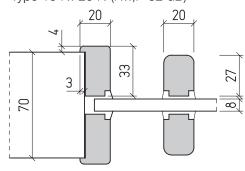
T 30

Type 16 N/26 N



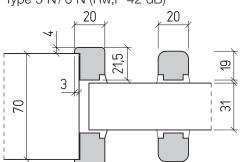
RS, SD 32

Type 16 N/26 N (Rw,P 32 dB)



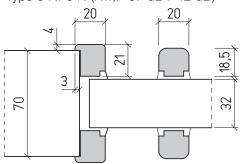
T 30

Type 5 N/6 N (Rw,P 42 dB)



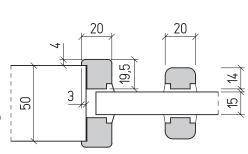
RS, SD 37, SD 42

Type 5 N/6 N (Rw,P 37 dB / 42 dB)



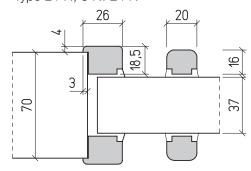
SD 37

Type 13 N/14 N (Rw,P 37 dB)

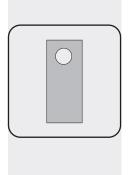


T 60, T 90

Type 21 N, 8 N/24 N





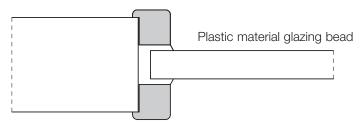


Vision panels (LA)

Glazing technics

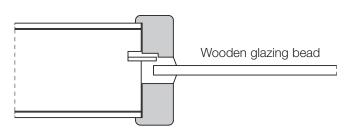


Wet Room Door



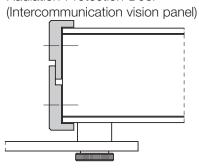
Ph

Radiation-Protection-Door



Pb

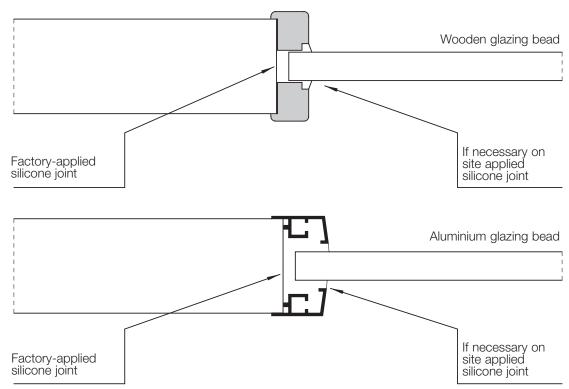
Radiation-Protection-Door



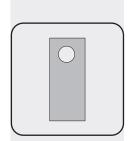
Vision panel sealing

Door leafs with vision panel are delivered completely glazed. The joint between glazing bead and pane is sealed with a transparent and permanent elastic silicone.

Vision panels in door sets for on site paint work, on site staining as well as on site coating are not being sealed by Schörghuber, because silicone is neither coatable, nor stainable. After the treatment of the surface the sealing of the joint between glazing bead and pane with silicone has to be carried out on site.



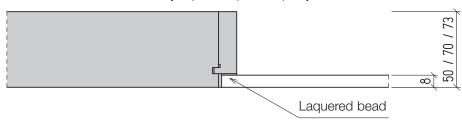




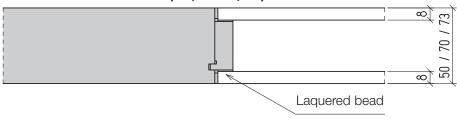
Vision panels (LA)

Flush glazings

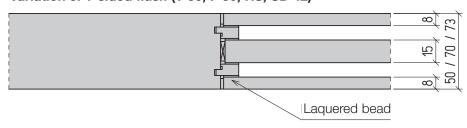
Variation 1: 1-sided flush (RS, SD 32, SD 37, VT)



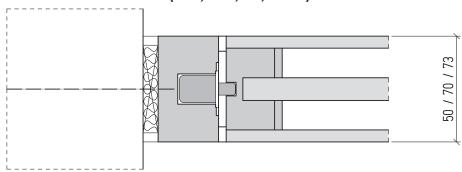
Variation 2: 2-sided flush (RS, SD 42, VT)



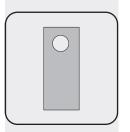
Variation 3: 1-sided flush (T 30, F 30, RS, SD 42)



Variation 4: 1-sided flush (T 30, F 30, RS, SD 50)







Types of glass

Overview

	D (
	Door function																
Types of glass	1 30	1 60	1 90	S	SD 32	SD 37	SD 42	SD 45	SD 48	SD 50	WK 2	WK3	88	10	¥	MM	VI
Pyrostop 30-10, clear glass, 15mm	•			0	0	0									0		
Pyrostop 30-12, paterned glass, 17mm	0			0	0	0											
Pyrostop-Phonstop 30-17, 31mm	О			0			0										
Pyrostop-Phonstop 30-27, 39mm	0			0			0									0	
Pyrostop-Phonstop 30-26, 36mm	0			0		0										0	
Pyrostop 60-101, clear glass, 38mm		•															
Pyrostop 60-121, paterned glass, 40mm		0															
Pyrostop 90-102, clear glass, 37mm			•	0		0											
Pyrostop 90-122, paterned glass, 39mm			0	0		0											
Contraflam 30-N2	0			0	0	0											
Contraflam 30-N2/ISO	0			0	0	0										0	
Contraflam 90-N2			0	0		0											
Promaglas 30, Type 1	0			0	0	0											
Promaglas 30, Type 20	0			0	0	0											
Pyrostop 30-20+P4 A, 19mm	0			0	0	0					0					0	
Pyrostop 30-20+P6 B, 21mm	О			0	0	0						•				0	
Arnold Fire / Cobra Shelter Glas	0			0	0	0											
Allstop P6B-10, 22mm				0	0	0						•					
Allstop P6B-13 GH, 34mm				0			0					•					
Allstop P4A-10, 10 mm				0	0	0					•						
Allstop P4A-10 GH, 33mm				0			0				•						
ESG, clear glass, 8mm				•	•										•		•
ESG, Chinchilla blank/paterned glass, 8mm				0	0										0		0
DSG, clear glass, 7mm				0	0										0		0
VSG, clear glass, 8mm				0	0										0		0
VSG, paterned glass, 8mm				0	0										0		0
Pyrodur 30-10, clear glass, 7mm				0													
Stadip Silence 44.1, 8mm				0		•											
Climaplus Silence 34/45, 43mm				0		0	•									0	
Phonstop 37/47 L, 37mm				0		0	0	•								0	
Phonstop 35/45 L, 33mm Satinato Plus, 35mm				0		0	0									0	
Radiation-Protection glass Lead equiv. 1,5 - 4,0mm													•				

RM®



Standard

1 30 = T 30 Fire-Protection

160 = T 60 Fire-Protection **190** = T 90 Fire-Protection

RS = Smoke-Protection

\$D 32 = Sound-Insulation Rw,P 32 dB

\$D 37 = Sound-Insulation Rw,P 37 dB

On request

\$D 42 = Sound-Insulation Rw,P 42 dB

\$D 45 = Sound-Insulation Rw,P 45 dB

\$D 48 = Sound-Insulation Rw,P 48 dB

\$D 50 = Sound-Insulation Rw,P 50 dB **WK 2** = Burglar-Protection WK 2

WK3 = Burglar-Protection WK 3

PB = Radiation-Protection

DT = Bullet-Resistant M 3

NT = Wet Room

LWW = Air, water, wind (external areas) = Solid core

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Option to shorten the door leaf

Bottom edge

With exception of a few models all Schörghuber Fire- and Smoke-Protection Doors can be shortened up to 20 mm. The possible option to shorten the door leaf is indicated with a steel sheet label on the pull side edge. For the inspection of the certification authority (responsible for the final acceptance), the door leaf height and the door leaf rebate dimension are imprinted.

In general the door leafs of Fire-Protection Doors (T 30 and T 90) without bottom seal as well as pure Smoke-Protection Doors can be shortened. Exceptions are Fire-Protection Doors with bottom seal as well as doors with floor-mounted door closer, these doors can not be shortened.

Non Fire- and Smoke-Protection Doors can usually be shortened up to 30 mm.

Option to shorten the door leaf

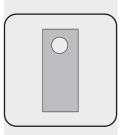
Туре	Fire-Protection	Smoke-Protection	Combination of Fire- and Smoke-Protection
1 N / 2 N	20 mm	20 mm	
3 N / 4 N	20 mm	20 mm	
13 N / 14 N		20 mm	
16 N / 26 N	20 mm	20 mm	
5 N / 6 N		20 mm	
17 N	//	20 mm	
50-1 / 50-2		20 mm	
35 N	20 mm	20 mm	
10 N / 20 N	20 mm	20 mm	
21 N	20 mm	//	//
8 N / 24 N	20 mm	//	
80-1 / 80-2		//	
91 N / 92 N		//	
25 N / 27 N	20 mm*	20 mm*	
3 N-NT 4 N-NT	20 mm	20 mm	
3-60, 4-60	20 mm	//	
5-60, 6-60		//	
3-90	20 mm	//	
120-1	20 mm	//	
25 N / 27 N Slimline			
91 N / 92 N Slimline			
Flaps			

 [–] not to be shortened

^{*} The minimum widths must be complied with. → Chapter 6.5



^{//} not available with this function



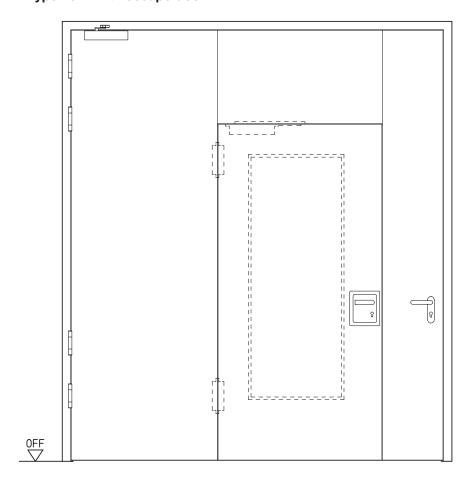
Door leaf 6.10

Super size with escape door

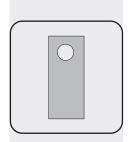
Overview / Details

The single leaf door, Type 16N, can additionally be equipped with a flush escape door. By default the escape door is equipped with flush sports hall levers, concealed hinges and an integrated overhead door closer. The clear opening of the escape door is threshold-free.

Type 16 N with escape door







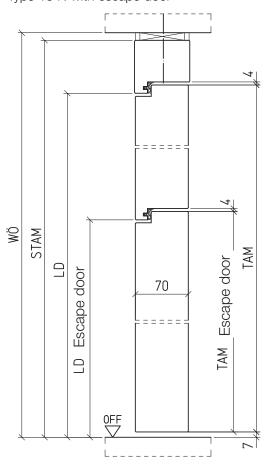
Door leaf 6.10

Super size with escape door

Overview / Details

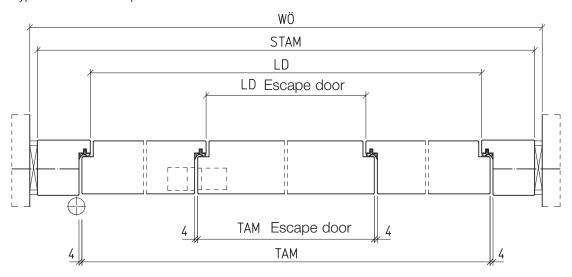
Vertical cross section

Type 16 N with escape door

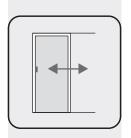


Horizontal cross section

Type 16 N with escape door







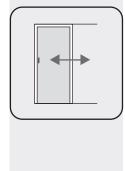
Contents

		Page
7.1	Definition	764
7.2	Configuration options	765 - 768
7.3	Multiple functions	769
7.4	Door leaf	770 - 774
7.5	Special equipment	775
7.6	Manually operated sliding doors	776 - 805
7.7	Automatically operated sliding doors	806 - 822









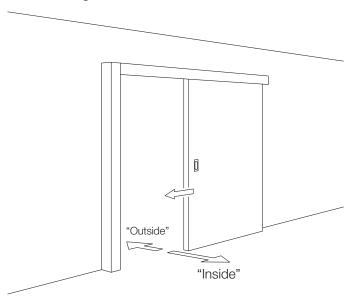
Definition

Schörghuber has defined the terms: "inside", "outside, "door closing to the left", "door closing to the right" for sliding doors running in front of the wall according to following definition.

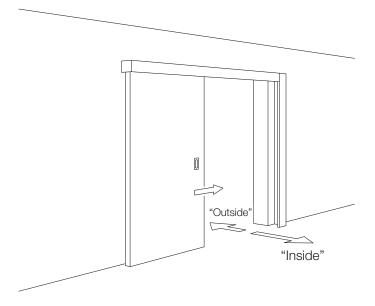
Sliding doors running within the wall are by default planned to run in the middle of the wall. If any other position within the wall is desired a drawing would be preferable.

The front door leaf edge (lock edge) is described as **main closing edge** and the rear door leaf edge (equivalent to the hinge edge of standard doors) as **secondary closing edge**.

Door closing to the left side



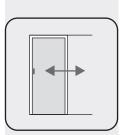
Door closing to the right side



Nooden special doors



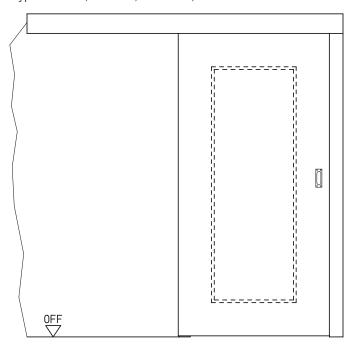
764



Configuration options

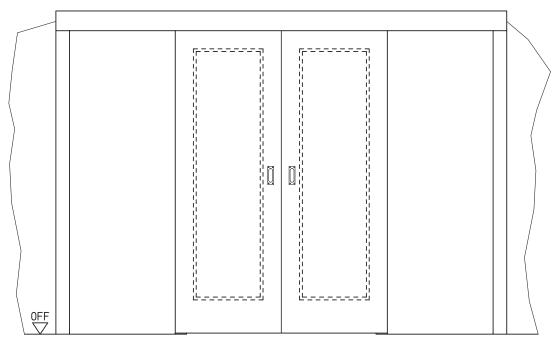
1-leaf sliding door running in front of the wall

On request with vision panel Type 1 N-ST, 3 N-ST, 25 N-ST, 16-N-ST



2-leaf sliding door running in front of the wall

On request with vision panel Type 2 N-ST, 4 N-ST, 27 N-ST

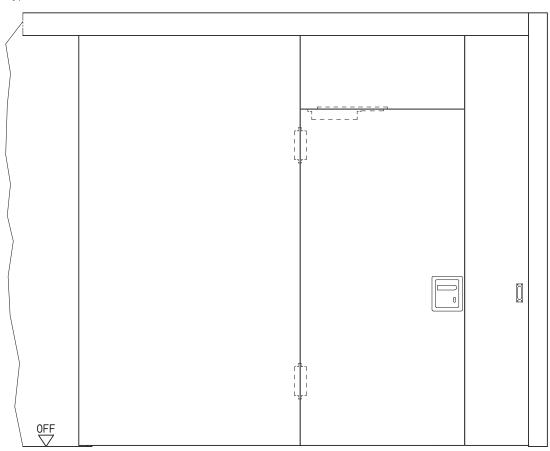




Configuration options

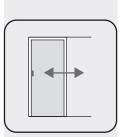
1-leaf sliding door with escape door

Type 16-N-ST





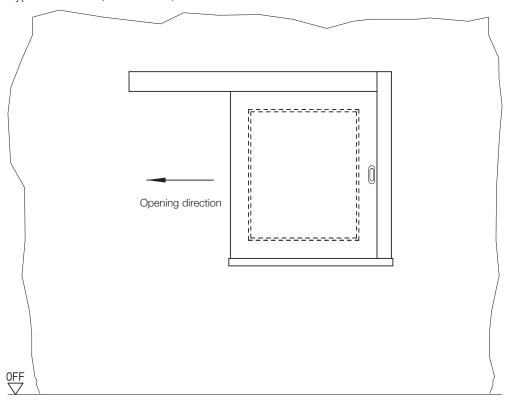




Configuration options

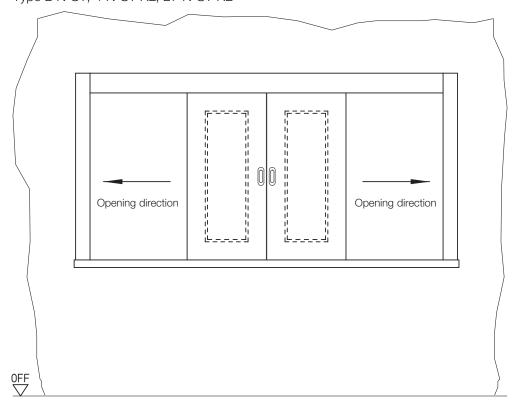
1-leaf sliding door running in front of the wall

On request with vision panel
Type 1 N-ST KL, 3 N-ST KL, 25 N-ST KL

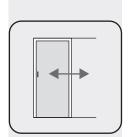


2-leaf sliding door running in front of the wall

On request with vision panel Type 2 N-ST, 4 N-ST KL, 27 N-ST KL



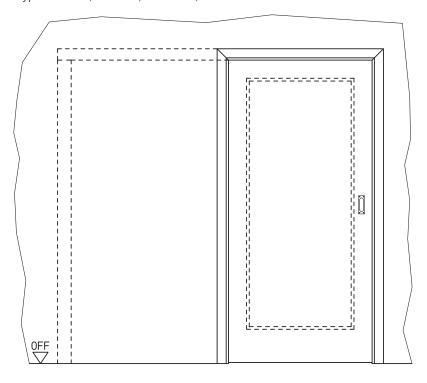




Configuration options

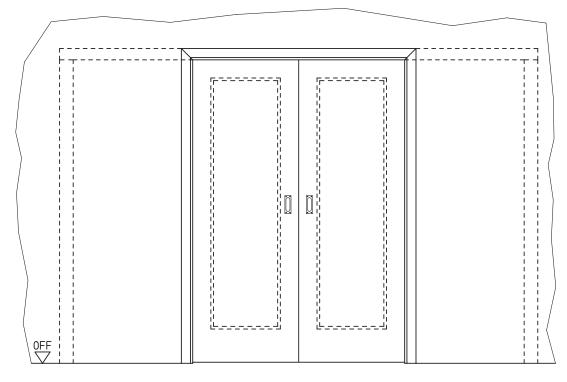
1-leaf sliding door running within the wall

On request with vision panel
Type 1 N-ST, 3 N-ST, 25 N-ST, 16-N-ST

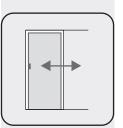


2-leaf sliding door running within the wall

On request with vision panel Type 2 N-ST, 4 N-ST, 27 N-ST







Multiple functions

1-leaf doors

Door type	Dimension BR-width BR-height	T 30	RS	РВ	NT	VT
1 N-ST	625 - 1250 1750 - 2250			0	0	0
1 N-ST KL	625 - 1250 625 - 2000			0	0	О
3 N-ST	625 - 1500 1750 - 3000	O *	O *	0	O ***	0
3 N-ST KL	625 - 1000 625 - 2000	O *	O *	0	O ***	0
25 N-ST	625 - 1500 1750 - 3000	O **	O **			0
25 N-ST KL	625 - 1000 625 - 2000	O **	O **			0
16 N-ST	1000 - 2952 2000 - 3000	O *	O *	0		0

2-leaf doors

Door type	Dimension BR-width BR-height	T 30	RS	РВ	NT	VT
2 N-ST	1000 - 2500 1750 - 2250					0
4 N-ST	1000 - 2852 1750 - 3000	O *	O *	0	O ***	0
4 N-ST KL	1000 - 2250 625 - 2000	O *	O *	0	O ***	0
27 N-ST	1000 - 2852 1750 - 3000	O **	O **			0
27 N-ST KL	1000 - 2250 625 - 2000	O **	O **			0

^{*} Applied for approval, max. door leaf weight 120 kg (approval for the individual case possible)

T 30 = T 30 Fire-Protection

RS = Smoke-Protection

PB = Radiation-Protection

NT - Wet Room

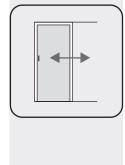
NT = Wet Room VT = Heavy-Duty



^{**} In preperation

^{***} Not T 30





Door leaf

The door leafs of Schörghuber sliding doors are in accordance with the standard Schörghuber doors and meet both the high constructive and visual requirements.

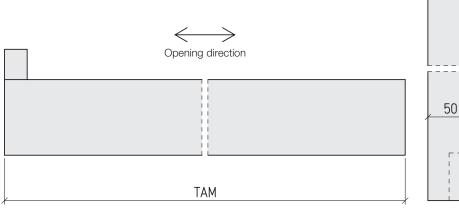
For the panel doors type 1 N-ST, 2 N-ST, 3 N-ST, 4 N-ST and 16 N-ST the door leaf construction with solid wooden edge band, special plywood frame, intermediate layer cover plate and top layer is identical with the doors type 1 N, 3 N, 4 N and 16 N. All versions of solid wooden edge bands, battens, veneered edges, plastic material edges are possible (> Chapter "Door leaf").

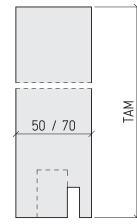
The door leafs of the Types 25 N-ST and 27 N-ST are in accordance with the standard Schörghuber doors 25 N and 27 N, but they are constructed in 54 mm thickness.

For Smoke-Protection or Sound-Insulation-Doors the bottom air gap of the door leaf is closed by an automatically retracting bottom seal.

1-leaf doors

Model 3 N-ST, 16 N-ST (T 30)





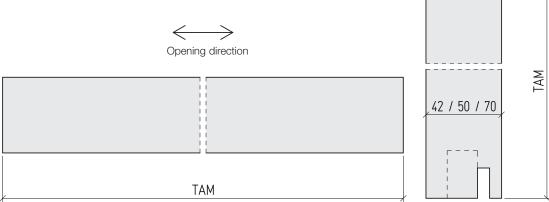




Door leaf

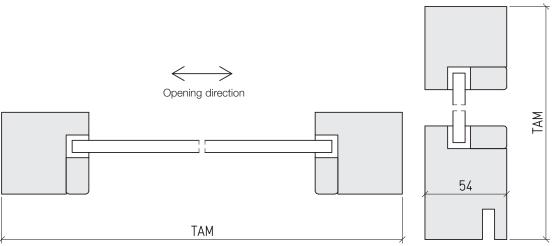
1-leaf doors

Model 1 N-ST, 3 N-ST, 16 N-ST (VT)



1-leaf doors

Model 25 N-ST (VT)



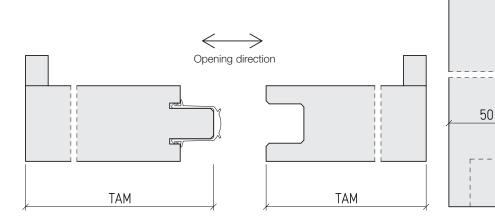


7.4

Door leaf

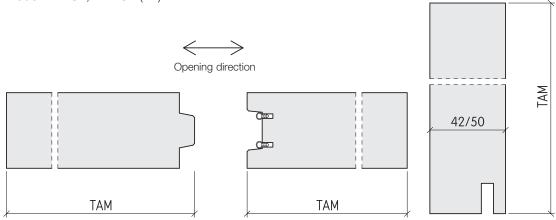
2-leaf doors

Model 4 N-ST (T 30)



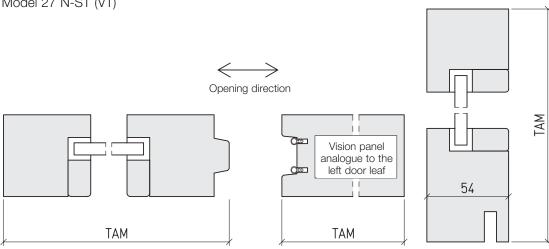
2-leaf doors

Model 2 N-ST, 4 N-ST (VT)



2-leaf doors

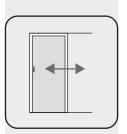
Model 27 N-ST (VT)





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7.4



Sliding door systems

Door leaf

Glazings / fillings

Glazings/Fillings of sliding doors always require flush glazing and panel cross bars or flat aluminium cross bars. For automatically operated sliding doors, due to safety reasons, the glass respectively the panel have to be, at least on one side (outside), embedded flush into the door leaf (>> Chapter "Individual solutions").

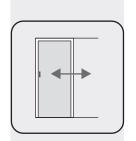
Glas-/Füllungsarten	T 30	RS	PB	NT	۷T
Pyrostop 30-10, Klarglas 15 mm	0	0			
Pyrostop 30-12, Ornament 17 mm	0	0			
Contraflam 30 N2	0	0			
Promaglas 30 type 1	0	0			
ESG, Klarglas 8 mm		0		0	О
ESG, Ornament 8 mm		0		О	О
ESG, Chinchilla blanc 8 mmm		0		0	О
DSG, Klarglas 7 mm		0		О	О
VSG, Klarglas 8 mm		0		О	О
VSG, Ornament 8 mm		0		О	О
Strahlenschutzglas		0	0		
Füllung, D = 25 mm	0	О		O *	О

^{*} not T 30

T 30 = T 30 Fire-ProtectionRS = Smoke-ProtectionPB = Radiation-Protection

NT = Wet Room VT = Heavy-Duty

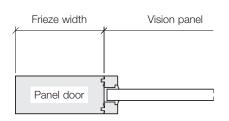


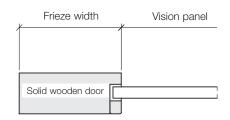


Door leaf

Glazings / fillings

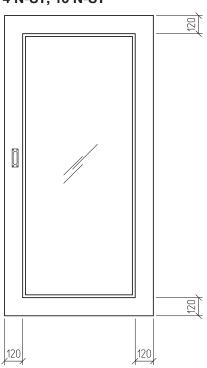
The minimum frieze width for the types 1 N-ST, 2 N-ST, 3 N-ST, 4 N-ST and 16 N-ST is 120 mm, for the types 25 N-ST and 27 N-ST 70 mm.



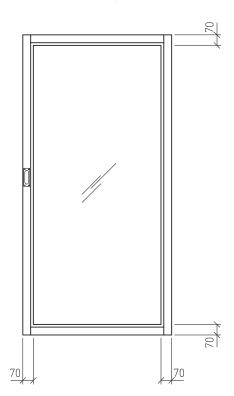


7.4

Model 1 N-ST, 2 N-ST, 3 N-ST, 4 N-ST, 16 N-ST



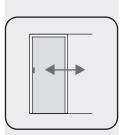
Model 25 N-ST, 27 N-ST





Schörghuber

7.5



Sliding door systems

Special equipment

Lock

1- and 2- leaf sliding doors can be equipped with a hook latch lock or a circular lock (➡ Chapter "Locks"). T 30 respectively Smoke-Protection-Doors can be equipped with a circular lock.

Flush handle

In order to operate a manually operated sliding door it can be equipped with flush handles. If flush handles are used in combination with locks, the suitable flush handle would be the one with cylinder punch hole.

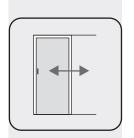
Electromagnet

Mechanically operated, self-closing sliding doors, e.g. in T 30 configuration, can be held open with electromagnets. The electromagnets of T 30- and Smoke-Protection-Door sets have to be controlled by an approved switch control unit and release the door in the case of a fire. Schörghuber offers suitable systems.

Escape door

The 1-leaf T30 sliding door type 16 N-ST can additionally be equipped with a flush inserted escape door. The escape door is by default equipped with a flush sportshall door handle, concealed hinges and an integated door closer. The clear opening of the escape door is threshold-free.





Manually operated sliding doors

Sliding door fittings

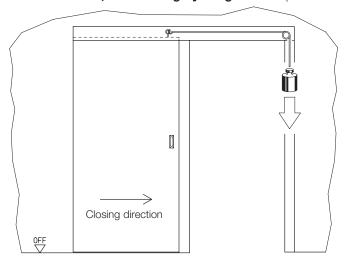
The sliding door fittings consist of the sliding rail, per door leaf at least two roller carriages and stoppers. The fittings have to bear the door weight over the whole opening range, should be low noise level and smooth-running as well as show a low abrasive wear. Schörghuber therfore uses especially on the door weight and dimensions adjusted sliding door fittings. These fittings always allow an adjustment of the height the door leaf runs at as well as the door leaf position. These values can be adjusted on the points of suspension of the roller carriages, using adjusting screws respectively slotted holes.

For 1- and 2-leaf T30-sliding doors the necessary durability test (200000 opening cycles) with the GEZE Perlan 140 fittings, therefore these fittings are used on all T 30 door sets up to a door leaf weight of 140 kg. With the TIGER ALU 200 fittings door leaf weights up to 260 kg can be supported.

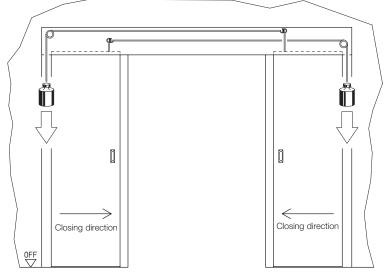
Self-closing function

A Fire-Protection-Door has to be closed in the case of a fire, therfore it is necessary to install an approved door closer. The door closer has to be adjustable so it can safely close from any opening position. Therfore Schörghuber uses a mechanism which guarantees a safe closing even after years of use and potential fouling of the slide rail, by using a cable pull and exchangeable pulling weights. The weights can be adjusted according to requirements. An air pressure attenuator guarantees a low noise and smooth running-in the final position of the door.

1-leaf door set, self-closing by weight force (schematic representation)

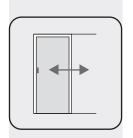


2-leafs door set, self-closing by weight force (schematic representation)





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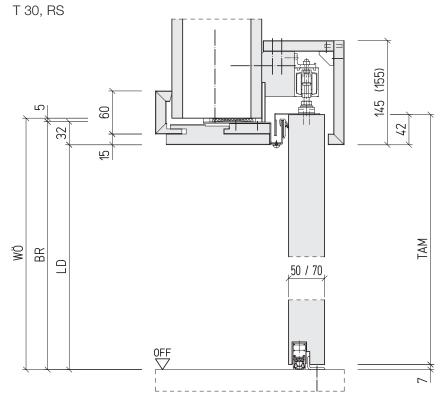


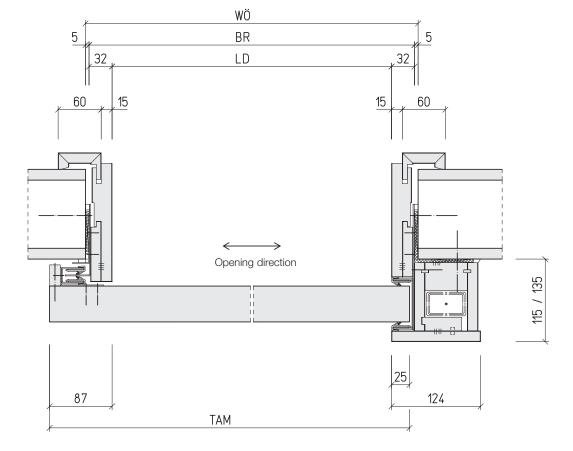
7.6

Manually operated sliding doors

Details / installation situations running in front of the wall

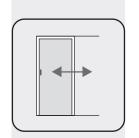
Model 3 N-ST, 16 N-ST, wooden frame, solid wall







Dimensions in () for door leaf weight \geq 120 kg

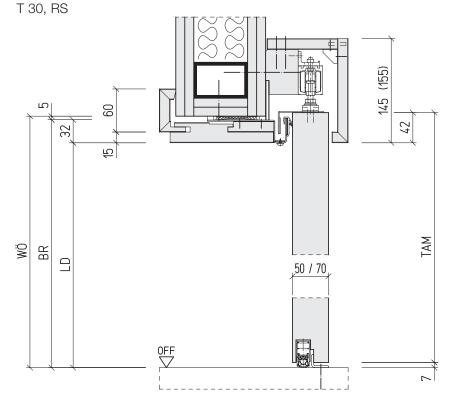


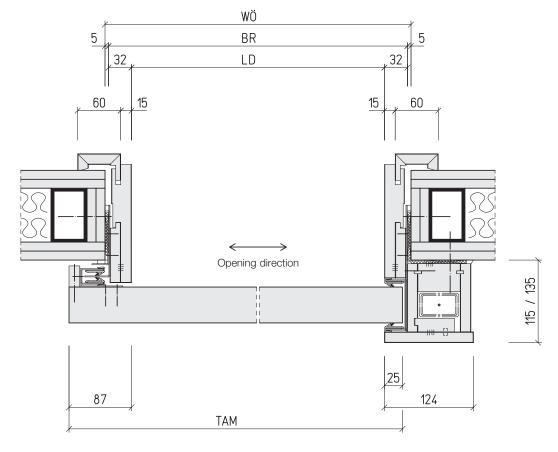
Manually operated sliding doors

Details / installation situations running in front of the wall

7.6

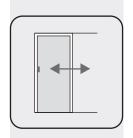
Model 3 N-ST, 16 N-ST, wooden frame, gypsum plasterboard wall







Dimensions in () for door leaf weight ≥ 120 kg

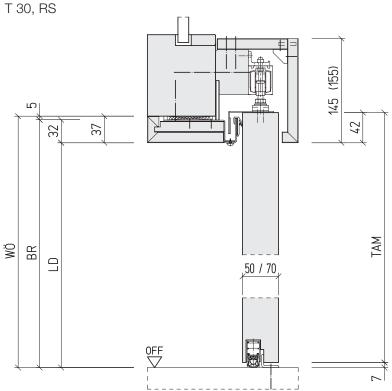


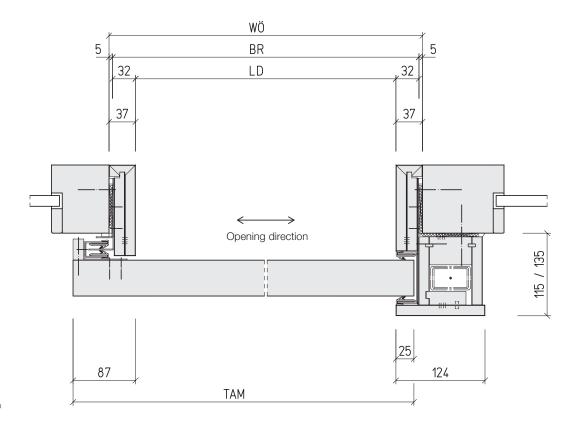
7.6

Manually operated sliding doors

Details / installation situations running in front of the wall

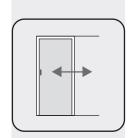
 ${\bf Model~3~N\text{-}ST,~16~N\text{-}ST,~wooden~frame,~fixed~glazing~model~25V}$







Dimensions in () for door leaf weight \geq 120 kg

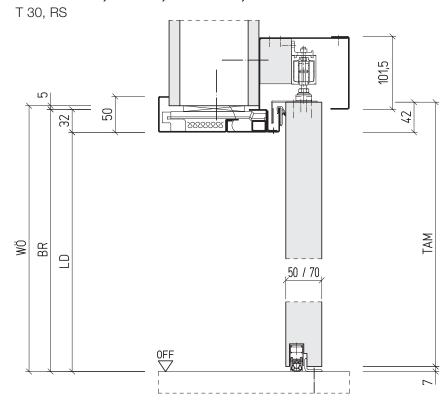


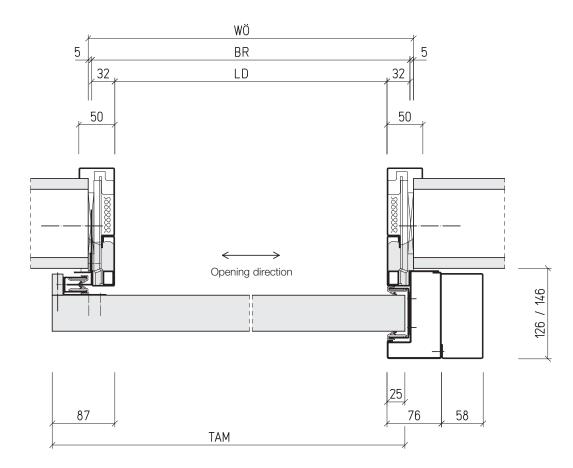
Manually operated sliding doors

Details / installation situations running in front of the wall

7.6

Model 3 N-ST, 16 N-ST, steel frame, solid wall







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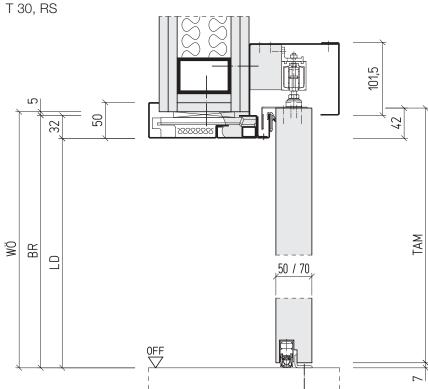
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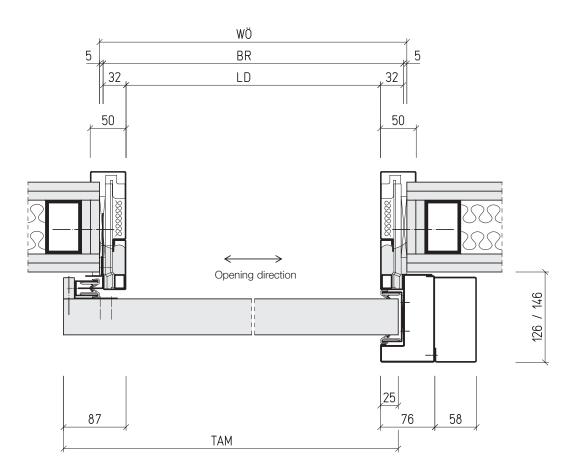
Sliding door systems

Manually operated sliding doors

Details / installation situations running in front of the wall

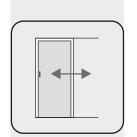
Model 3 N-ST, 16 N-ST, steel frame, gypsum plasterboard wall









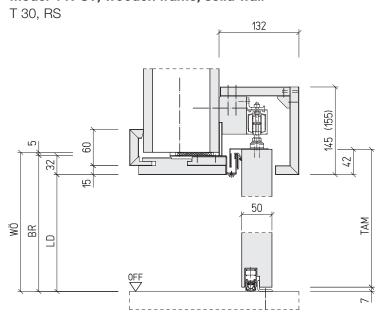


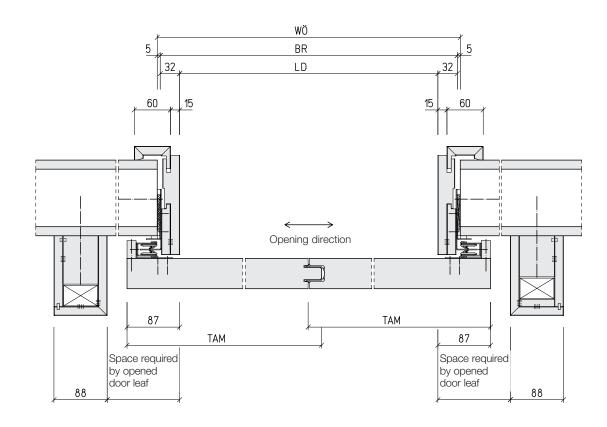
Manually operated sliding doors

Details / installation situations running in front of the wall

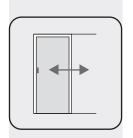
7.6

Model 4 N-ST, wooden frame, solid wall







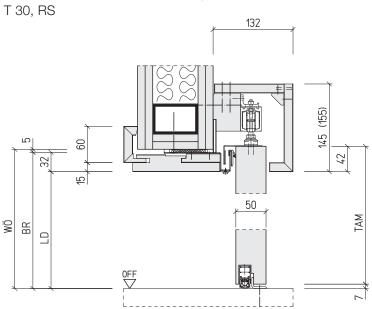


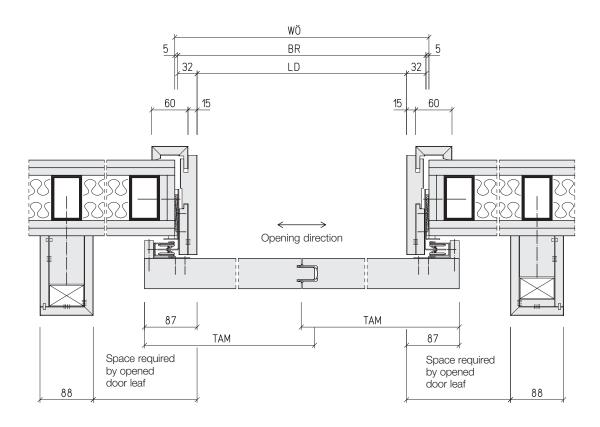
7.6

Manually operated sliding doors

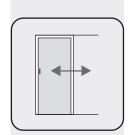
Details / installation situations running in front of the wall

Model 4 N-ST, wooden frame, gypsum plasterboard wall







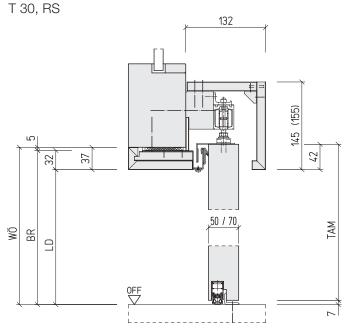


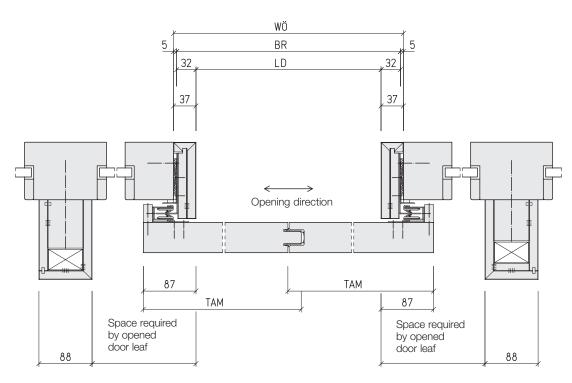
7.6

Manually operated sliding doors

Details / installation situations running in front of the wall

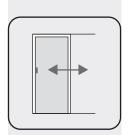
Model 4 N-ST, wooden frame, fixed glazing model 25V







7.6

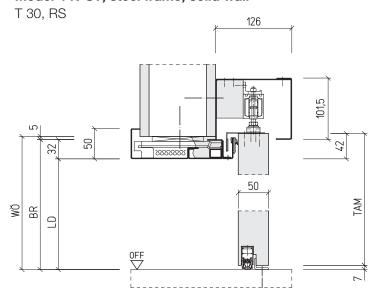


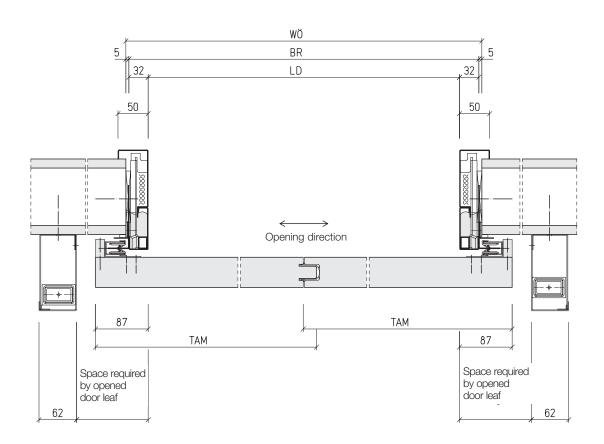
Sliding door systems

Manually operated sliding doors

Details / installation situations running in front of the wall

Model 4 N-ST, steel frame, solid wall

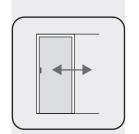






785



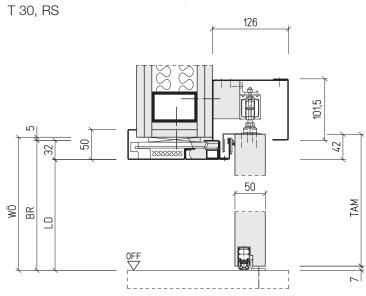


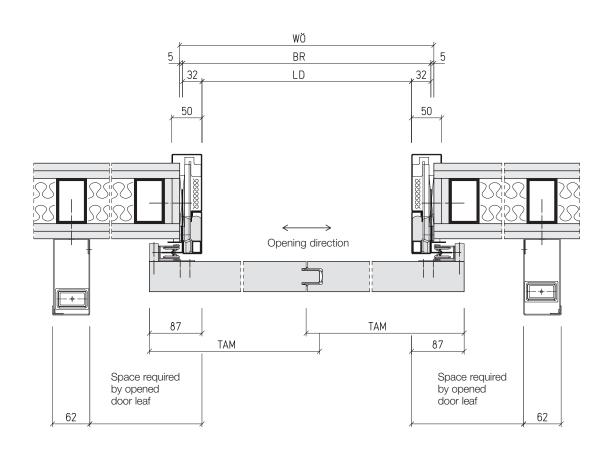
7.6

Manually operated sliding doors

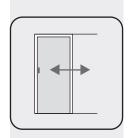
Details / installation situations running in front of the wall

Model 4 N-ST, steel frame, gypsum plasterboard wall







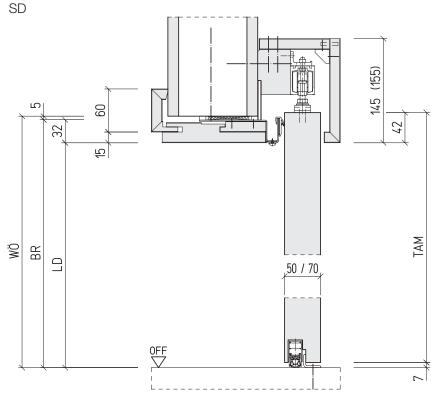


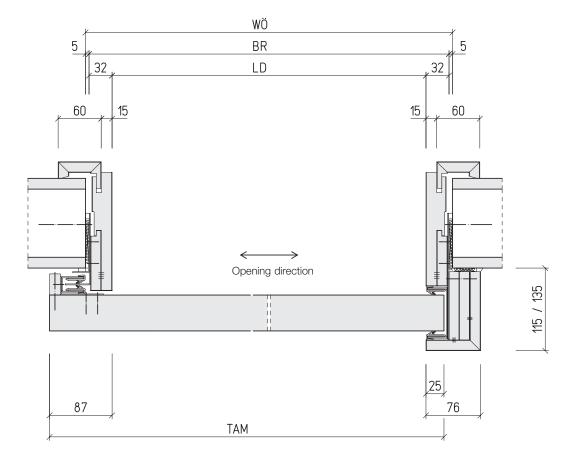
7.6

Manually operated sliding doors

Details / installation situations running in front of the wall

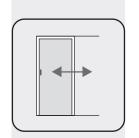
Model 3 N-ST, 16 N-ST, wooden frame, solid wall







Dimensions in () for door leaf weight \geq 120 kg

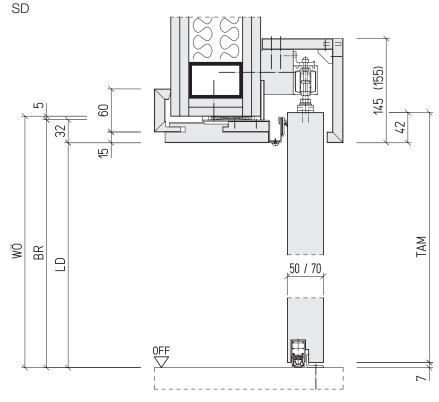


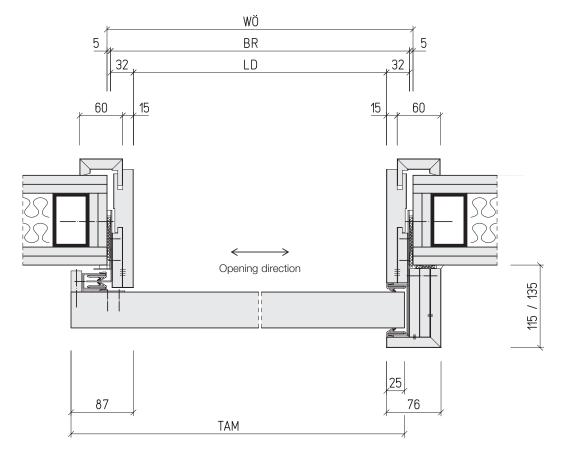
Manually operated sliding doors

Details / installation situations running in front of the wall

7.6

Model 3 N-ST, 16 N-ST, wooden frame, gypsum plasterboard wall

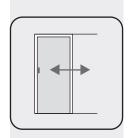






Dimensions in () for door leaf weight ≥ 120 kg

7.6

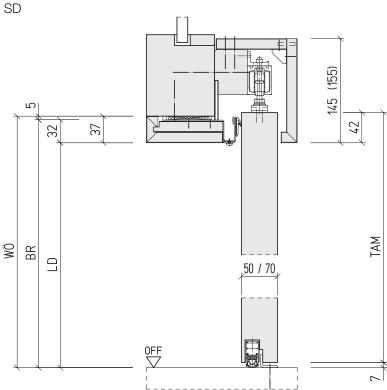


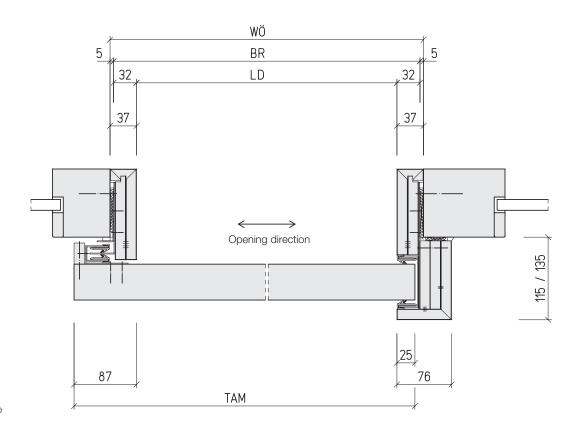
Sliding door systems

Manually operated sliding doors

Details / installation situations running in front of the wall

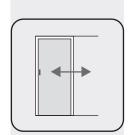
Model 3 N-ST, 16 N-ST, wooden frame, fixed glazing model 25V







Dimensions in () for door leaf weight \geq 120 kg

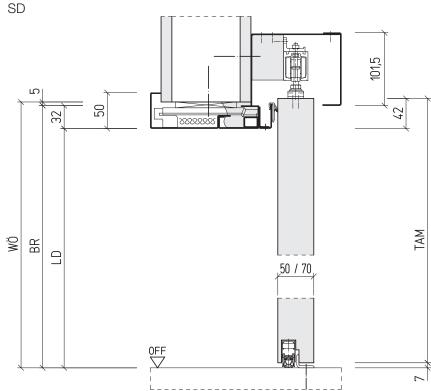


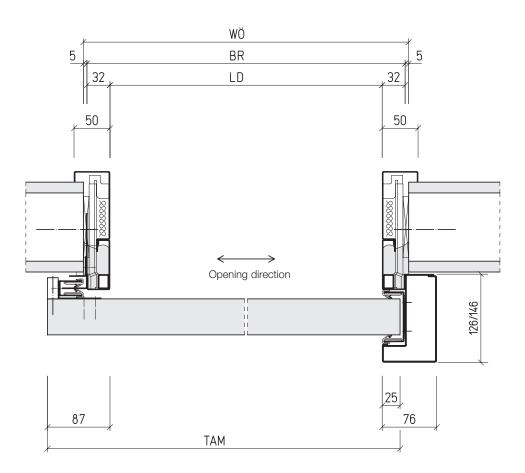
Manually operated sliding doors

Details / installation situations running in front of the wall

7.6

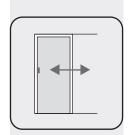
Model 3 N-ST, 16 N-ST, steel frame, solid wall







790

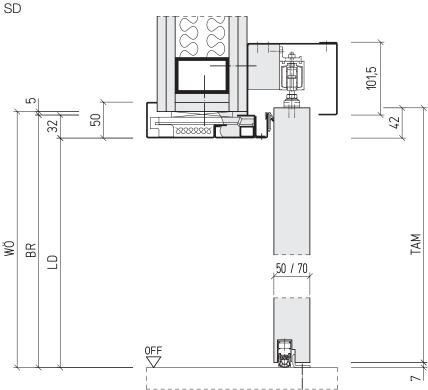


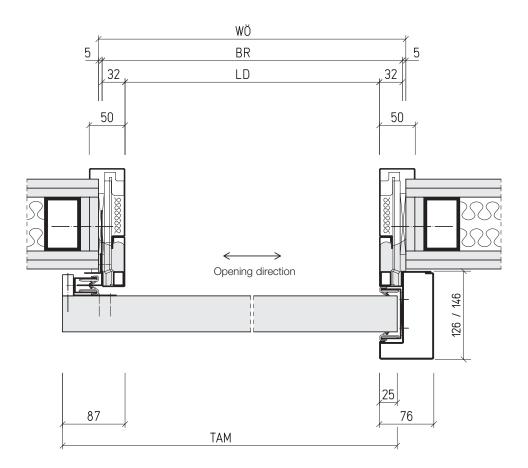
7.6

Manually operated sliding doors

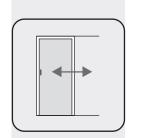
Details / installation situations running in front of the wall

Model 3 N-ST, 16 N-ST, steel frame, gypsum plasterboard wall







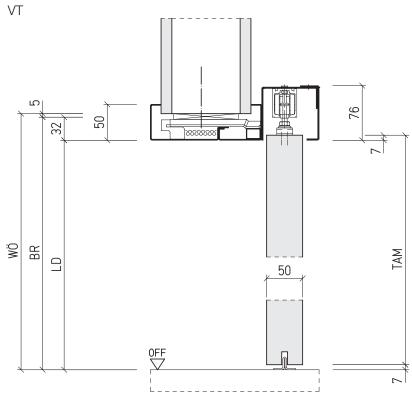


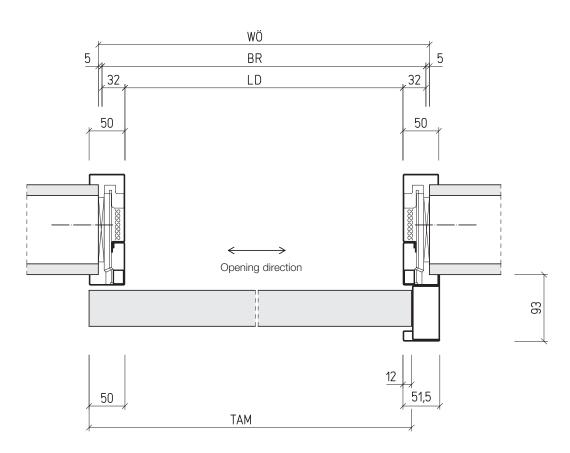
Manually operated sliding doors

Details / installation situations running in front of the wall

7.6

Model 3 N-ST, steel frame, solid wall

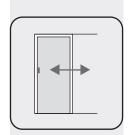






793

7.6

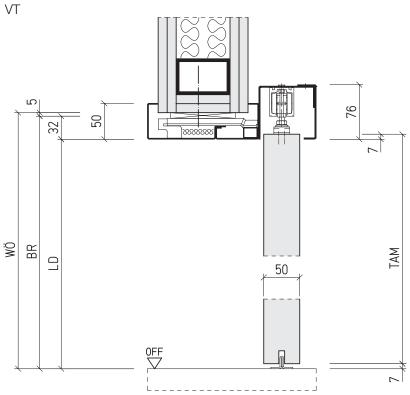


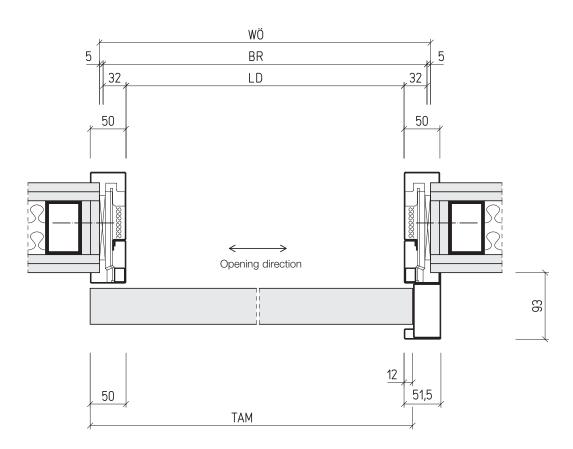
Sliding door systems

Manually operated sliding doors

Details / installation situations running in front of the wall

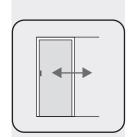
Model 3 N-ST, steel frame, gypsum plasterboard wall









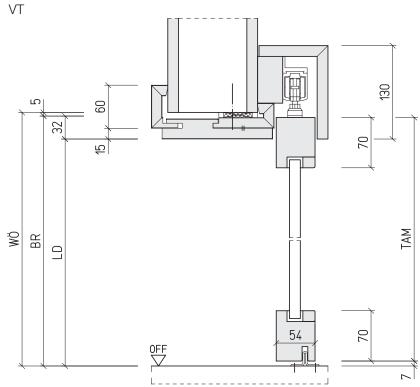


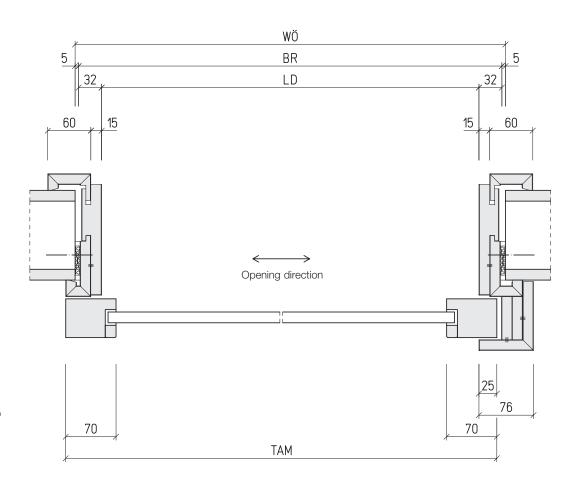
Manually operated sliding doors

Details / installation situations running in front of the wall

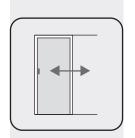
7.6

Model 25 N-ST, wooden frame, solid wall







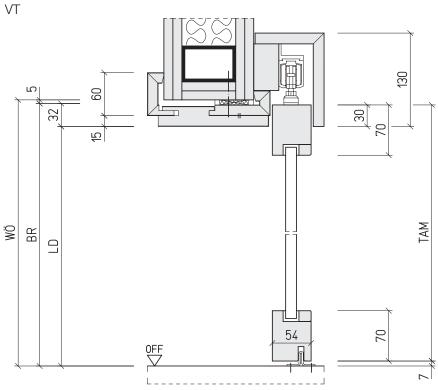


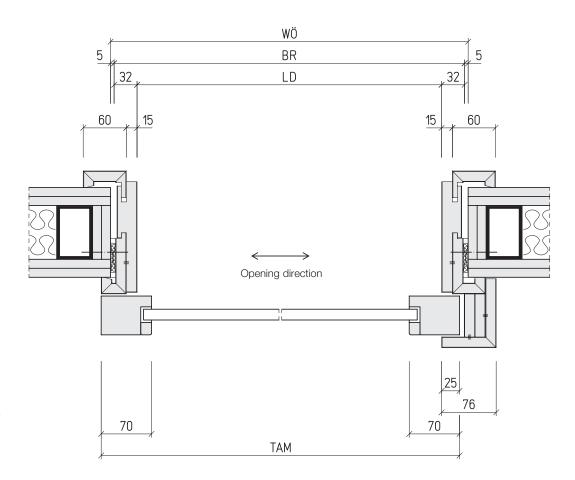
Sliding door systems

Manually operated sliding doors

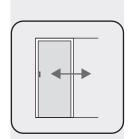
Details / installation situations running in front of the wall

Model 25 N-ST, wooden frame, gypsum plasterboard wall







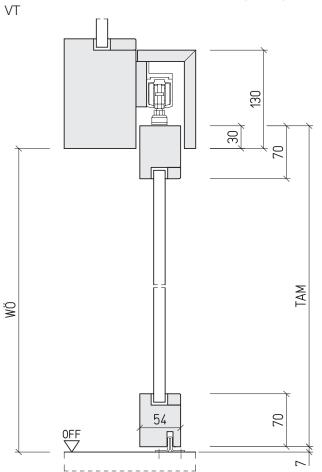


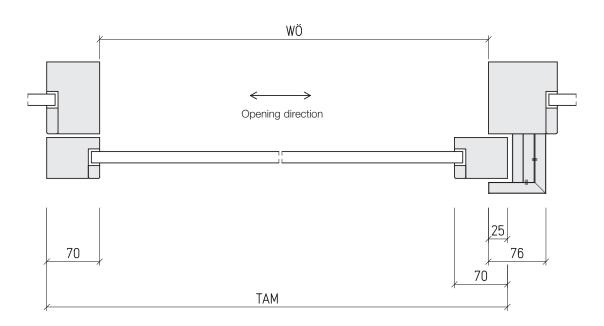
Manually operated sliding doors

Details / installation situations running in front of the wall

7.6

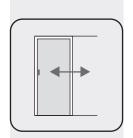
Model 25 N-ST, wooden frame, fixed glazing model 25V







796

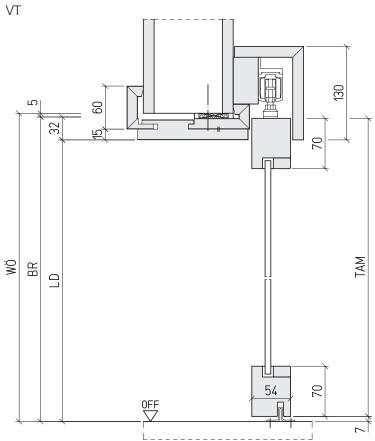


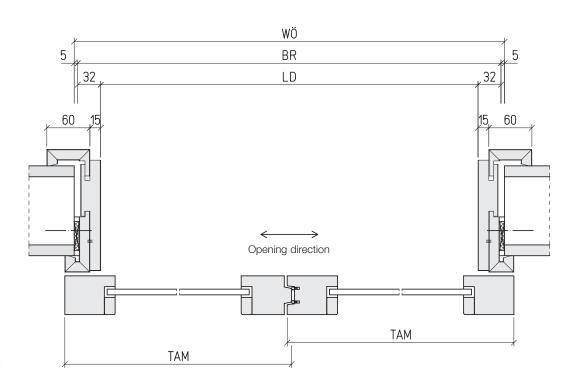
Sliding door systems

Manually operated sliding doors

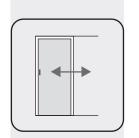
Details / installation situations running in front of the wall

Model 27 N-ST, wooden frame, solid wall









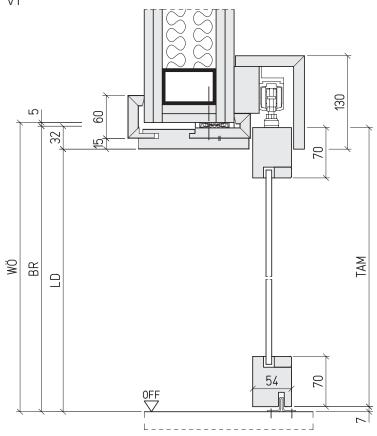
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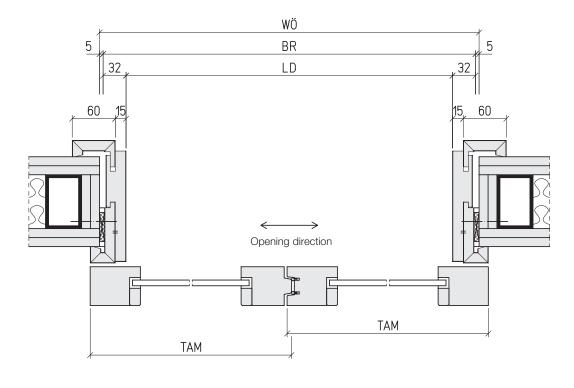
Manually operated sliding doors

Details / installation situations running in front of the wall

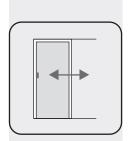
Details / installation situations running in front of the wall

Model 27 N-ST, wooden frame, gypsum plasterboard wall $^{\text{NT}}$







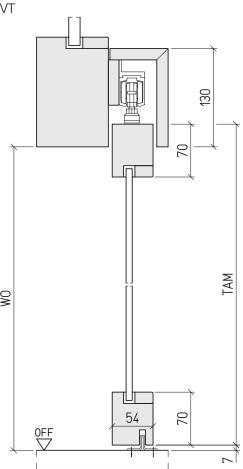


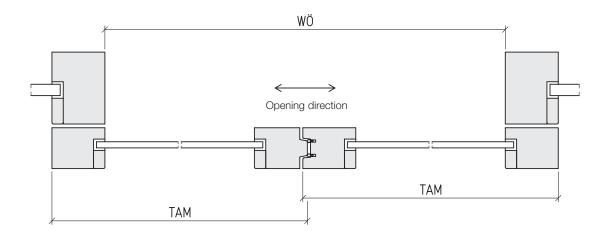
Sliding doors/flaps

Manually operated sliding doors

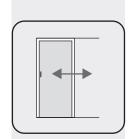
Details / installation situations running in front of the wall

Model 27 N-ST, wooden frame, fixed glazing model 25V





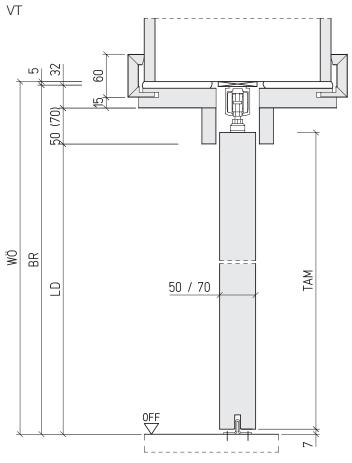


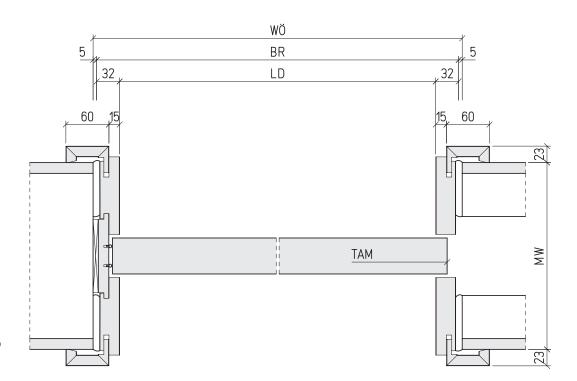


7.6 Manually operated sliding doors

Details / installation situations running within the wall

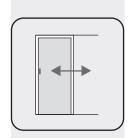
Model 3 N-ST, wooden frame, solid wall







Dimensions in () for door leaf weight ≥ 140 kg

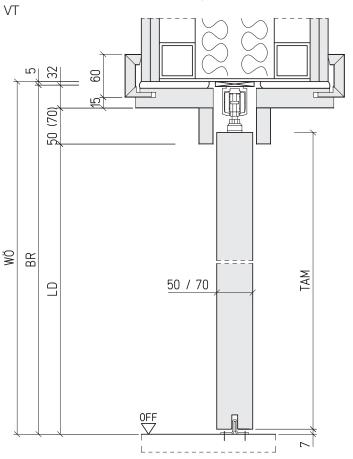


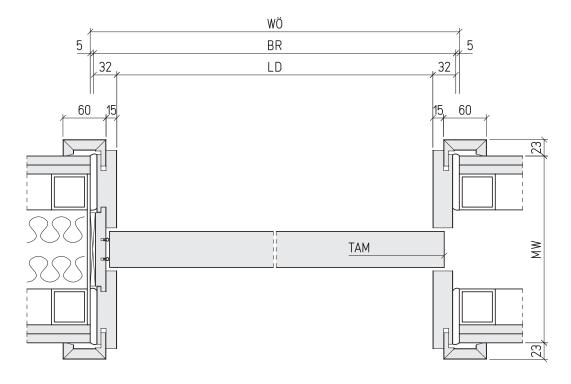
Sliding door systems

Manually operated sliding doors

Details / installation situations running within the wall

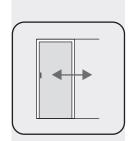
Model 3 N-ST, wooden frame, gypsum plasterboard wall







Dimensions in () for door leaf weight \geq 140 kg

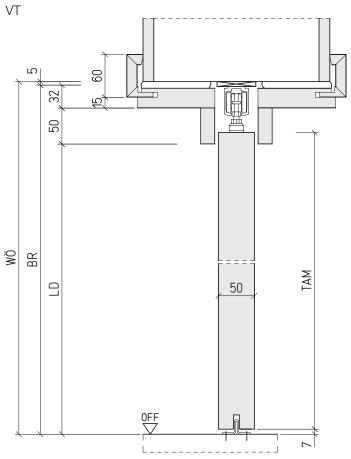


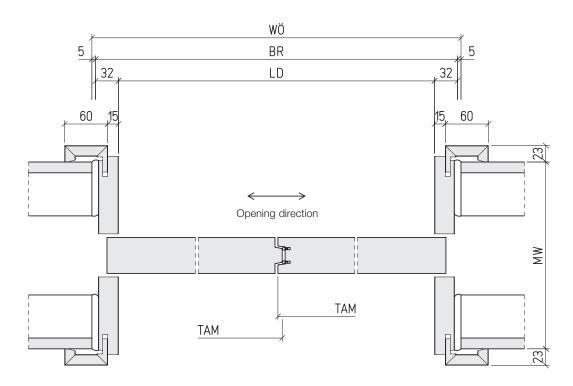
Manually operated sliding doors

Details / installation situations running within the wall

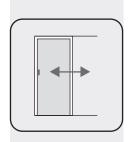
7.6

Model 4 N-ST, wooden frame, solid wall







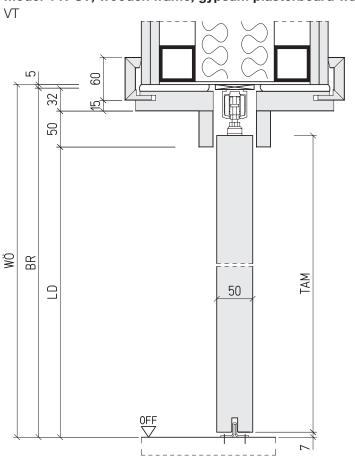


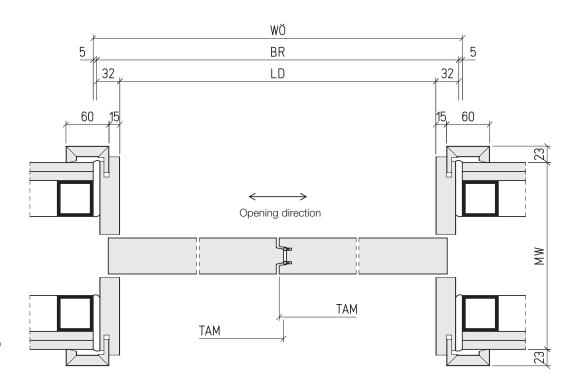
Sliding door systems

Manually operated sliding doors

Details / installation situations running within the wall

Model 4 N-ST, wooden frame, gypsum plasterboard wall





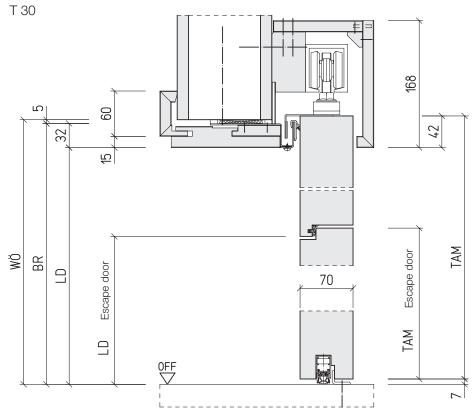


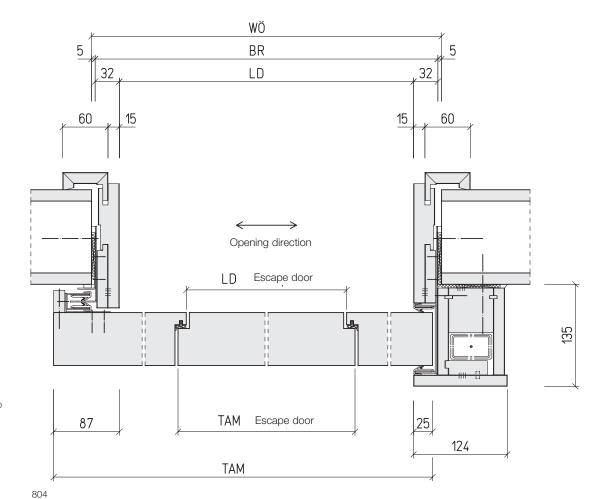


Manually operated sliding doors

Details / escape door

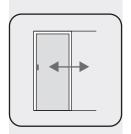
Model 16 N-ST, wooden wrap-around frame, solid wall









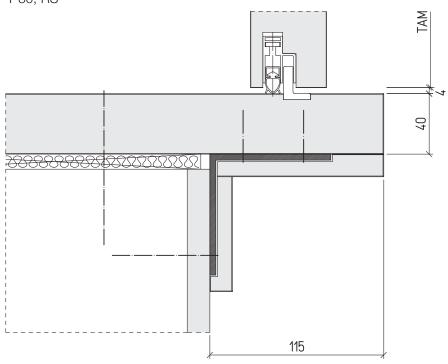


Sliding door systems

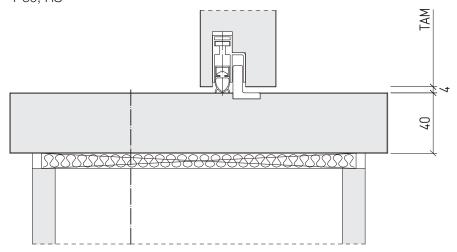
Manually operated sliding doors

Details / installation situation

Model 3 N-ST, 4 N-ST, vertical cross section bottom edge of flap in front of socket T 30, $\ensuremath{\mathsf{RS}}$



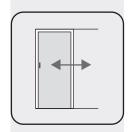
Model 3 N-ST, 4 N-ST, vertical cross section bottom edge of flap in front of socket $\top\,30,\,\text{RS}$



Note!

For flaps bottom seals are also required for T 30 door sets.





7.7

Automatically operated sliding doors

Areas of use

Automatically operated sliding doors for internal areas are used for example in hospitals, airports, hotels or guest houses. The user especially values the quick clearance of the passageway, as well as the small amount of required space, the low-noise operation and the elegant visual appearance of a sliding door.

Additional areas of use are for example in combination with an automatic conveyor handling system (CHS). The opening signal for the sliding door can therefore be given by the CHS control.

Functions

Fire-Protection T 30

The function of a Fire-Protection-Door is only given if it is closed in the case of a fire.

The sliding door operator GEZE Slimdrive SL-T 30 tested by Schörghuber (200 000 opening cycles) meets all the requirements by using a rubber string integrated in the door operator which is straint during the opening procedure of the door leaf. It assures a safe closing of the door in the case of a fire, even during a blackout. The closing speed is therefore reduced to minimize the risk of an injury.

In order to be able to detect fire and smoke a smoke switch control unit is by default installed. The door set can of course also be connected to a fire detection system with external smoke detectors.

Escape and emergency exits

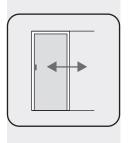
An automatically operated sliding door in escape and emergency routes has to open and stay open in the appropriate events.

The sliding door operator GEZE Slimdrive SL-FR used by Schörghuber is tested and approved for this use. In the case of a blackout an integrated battery supplies enough energy for multiple opening cycles.

Attention!

The combination of the functions "Fire-Protection" and "Escape and emergency exit" is not possible for sliding doors!





7.7

Automatically operated sliding doors

Security requirements

When automatcally operated sliding doors are installed it is required that dangers which derive from automatically operated door leafs, for example jamming, bruising or crushing, are eliminated or minimised. In Germany DIN 18650 has to be taken into account (>> Chapter "Door closer").

Schörghuber was especially keen on meeting the security requirements during the developement of the automatically operated sliding doors. Special effort was made in order to minimize the clearance on the door leaf edges and the vertical secondary closing edges (rear door leaf edges) as well as the flush glazings, in order to avoid the dangers of bruising or jamming.

The best protection is nevertheless to assure that no person enters the dangerous area of a door leaf in operation. This is by default realised for automatically operated Schörghuber sliding doors by using infrared light curtains. The door leaf movement is stopped and reversed as soon as a person enters the dangerous area of the door leaf in operation. Hereby are monitored, the main closing edge (front door leaf edge) while closing and the secondary closing edge (rear door leaf edge) while opening the door.

The sliding door operator GEZE Slimdrive SL is approved by German TÜV according to security relevant norms and guidelines.

Additional equipment

Control systems

Automatically operated Schörghuber sliding doors with the sliding door operator GEZE Slimdrive SL-T30 or Slimdrive SL-FR are usually equipped with radar motion detectors. After entering the signal area the motion detector opens the door. Radar motion detectors can be installed as a single unit e.g. on the ceiling or as part of a set with the infrared light curtain which is necessary to assure the door safeguarding.

The control of the opening motion can also be realised by pushbuttons. For this purpose several options are available, for example pushbuttons, area pushbuttons, key pushbuttons, foot contact pushbuttons etc.

The opening motion can also be controled via remote control.

Multiple options for the monitoring of the access control such as code card readers or keyboards are possible.

Programmable switch

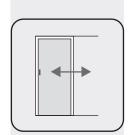
The GEZE Display Alterable Switch allows to change the programme to different scenarios: automatic, permanently open, shop closing time, night and reduced opening width. Furthermore the hold-open time can be adjusted. The sliding door operators GEZE Slimdrive SL-T 30 and Slimdrive SL-FR which are equipped with the Display Alterable Switch are always combined with a key pushbutton in order to allow an authorised person to lock the current programme. In the case of a fire the T 30 configuration overrules the current programme by forcing the door to close, which it does automatically.

Bolting

If requested the sliding door can be electronically bolted when in the closed state.

Schörghuber

Additional equipment such as emergency switches, main switches etc. is also possible on request.



7.7

Automatically operated sliding doors

Space requirements

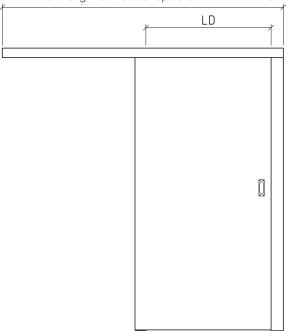
The minimum length of the sliding door operator GEZE Slimdrive SL-T 30 and GEZE Slimdrive SL-FR are calculated for 1- and 2- leaf doors sets using the formula:

Minimum length of the door operator = 2 x LD + 225 mm

The sliding door operator can therefore be enlongated on both sides on site, in order to stretch out and realise for example a flush connection to a partition wall.

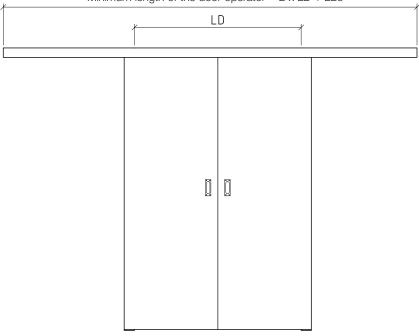
1-leaf sliding door

Minimum length of the door operator = $2 \times LD + 225$

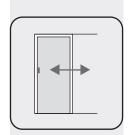


2-leaf sliding door

Minimum length of the door operator = $2 \times LD + 225$





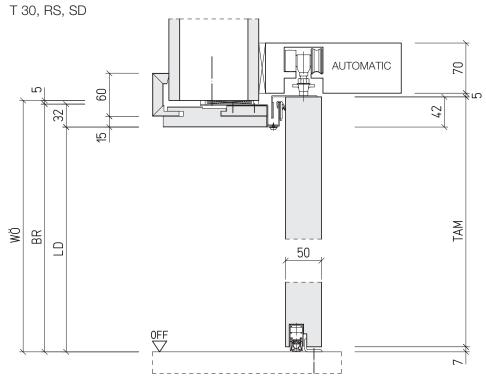


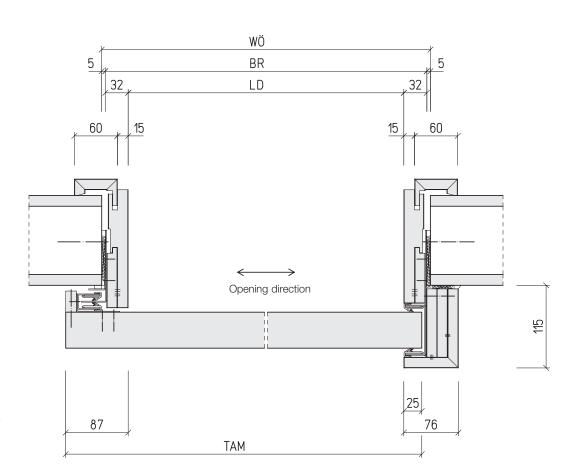
Sliding door systems

Automatically operated sliding doors

Details / installation situation

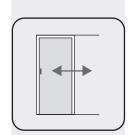
Model 3 N-ST, wooden frame, solid wall











Automatically operated sliding doors

7.7

Details / installation situation

Model 3 N-ST, wooden frame, gypsum plasterboard wall

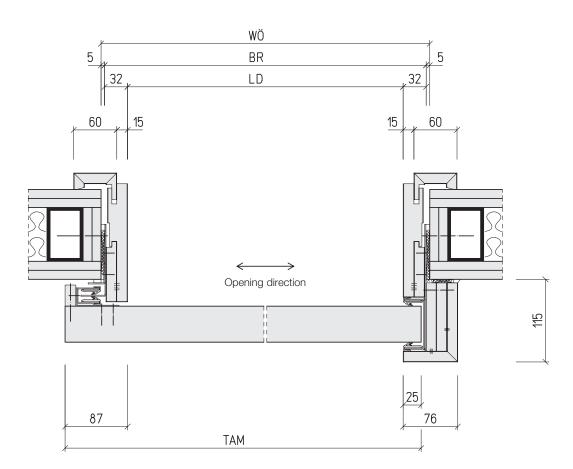
T 30, RS, SD

AUTOMATIC

R

SD

WYL





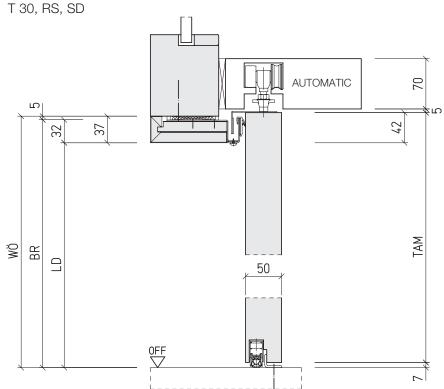
810

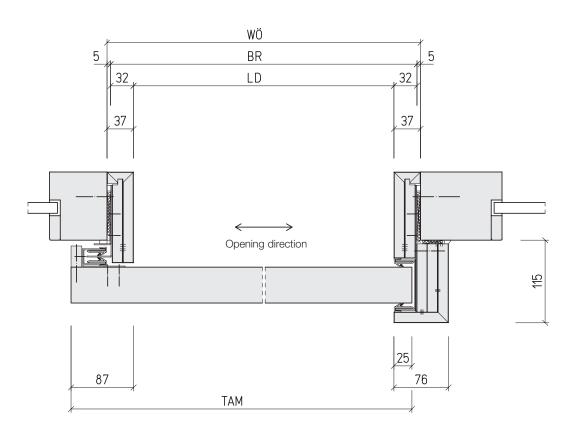
Sliding door systems

Automatically operated sliding doors

Details / installation situation

Model 3 N-ST, wooden frame, fixed glazing type 25V

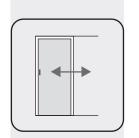






811



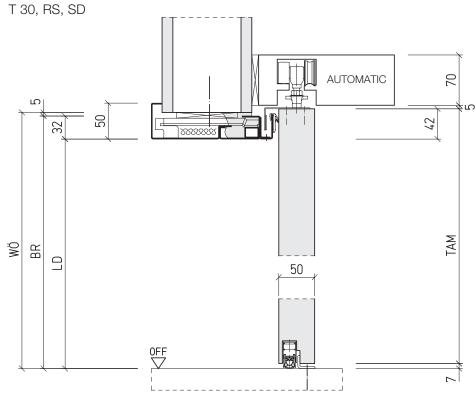


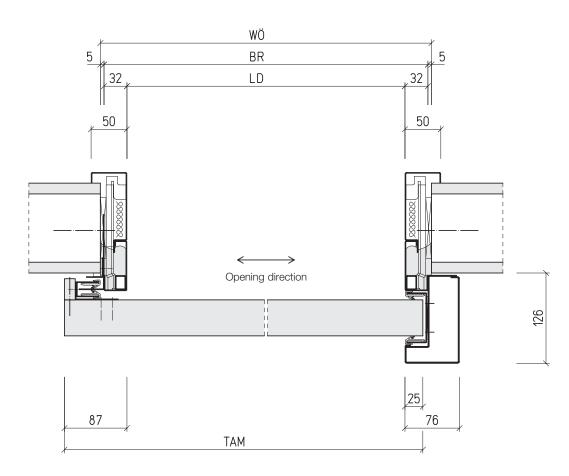
Automatically operated sliding doors

7.7

Details / installation situation

Model 3 N-ST, steel frame, solid wall





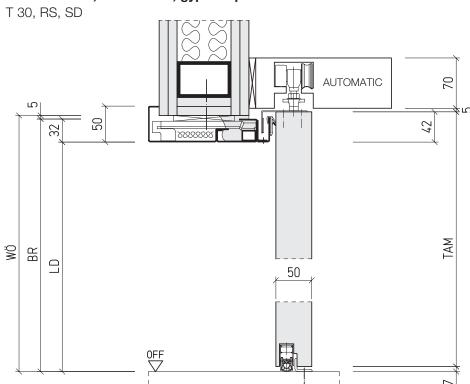


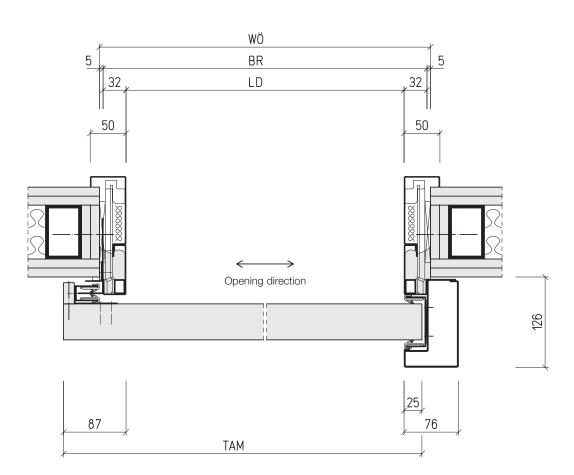
Sliding door systems

Automatically operated sliding doors

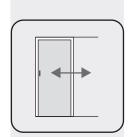
Details / installation situation

Model 3 N-ST, steel frame, gypsum plasterboard wall







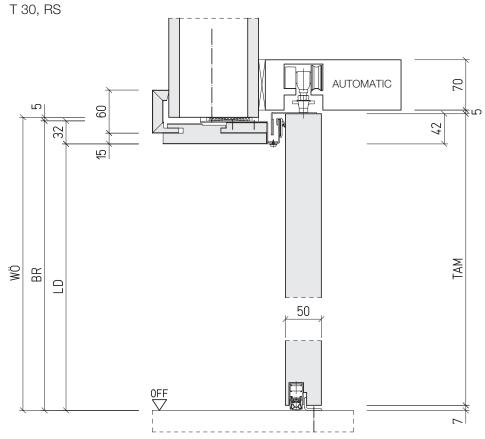


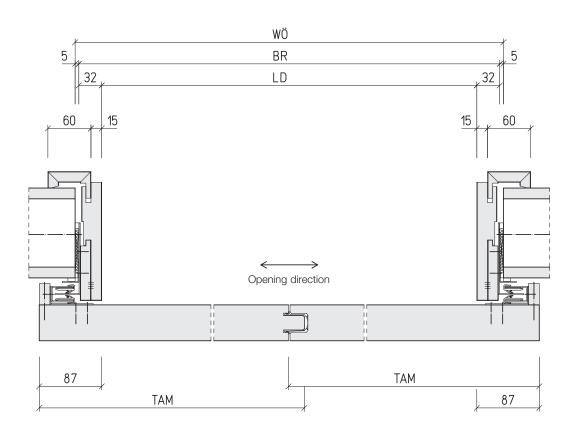
Automatically operated sliding doors

7.7

Details / installation situation

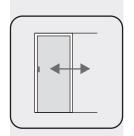
Model 4 N-ST, wooden frame, solid wall







Schörghuber

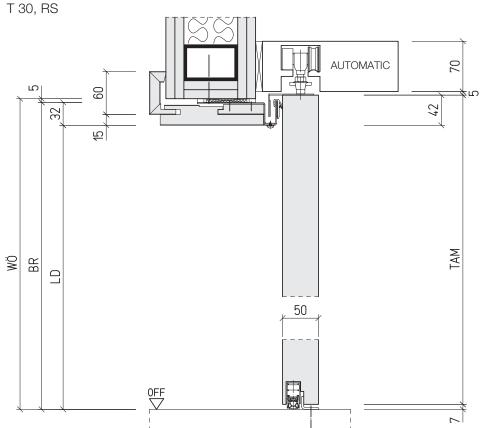


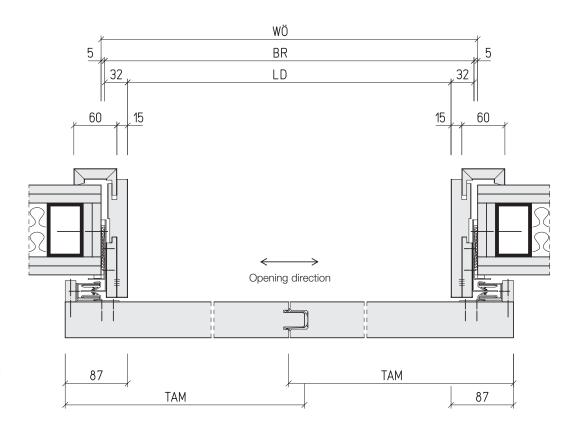
Sliding door systems

Automatically operated sliding doors

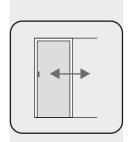
Details / installation situation

Model 4 N-ST, wooden frame, gypsum plasterboard wall







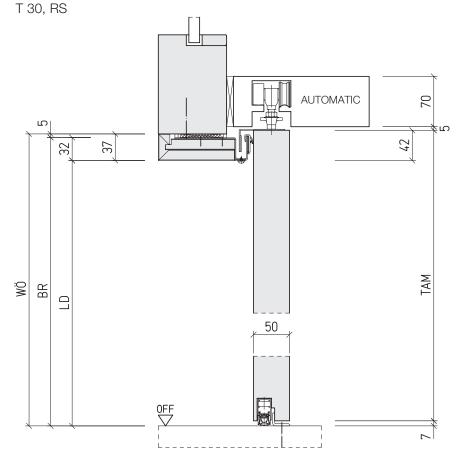


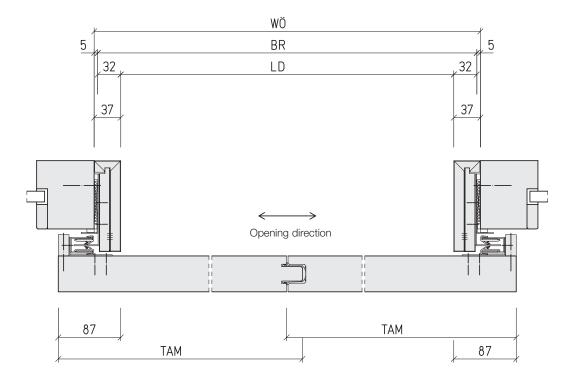
Automatically operated sliding doors

7.7

Details / installation situation

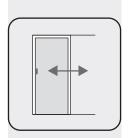
Model 4 N-ST, wooden frame, fixed glazing type 25V







Schörghuber

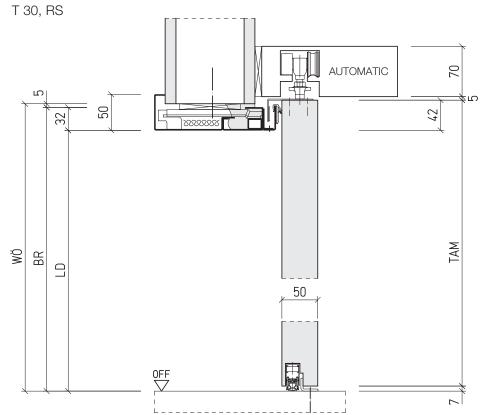


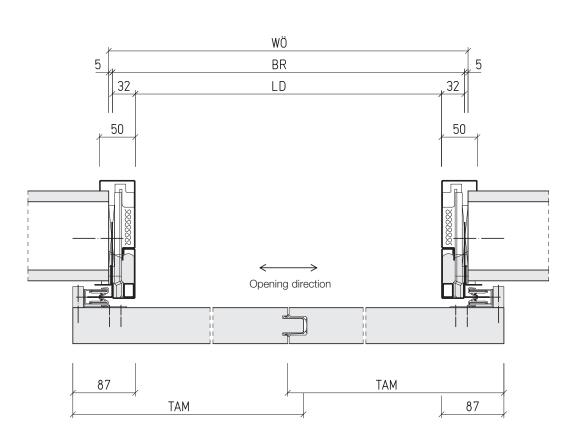
Sliding door systems

Automatically operated sliding doors

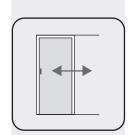
Details / installation situation

Model 4 N-ST, steel frame, solid wall







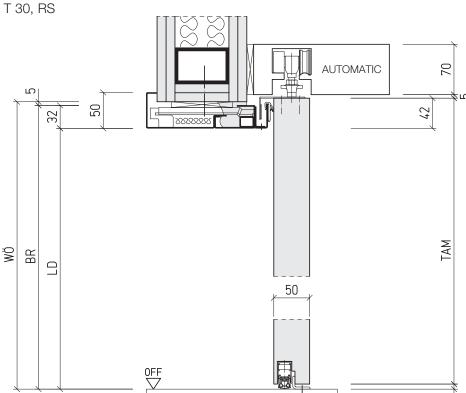


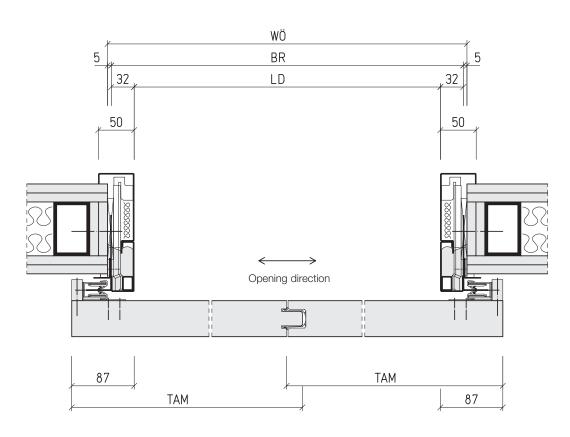
7.7

Automatically operated sliding doors

Details / installation situation

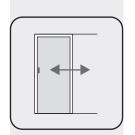
Model 4 N-ST, steel frame, gypsum plasterboard wall







818

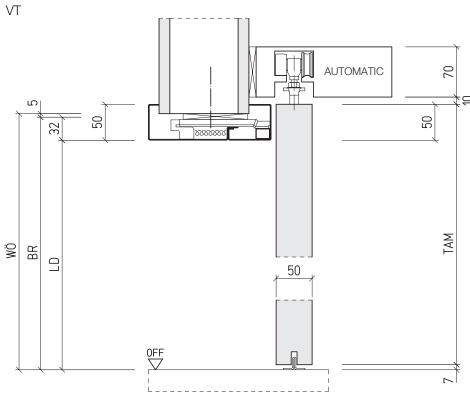


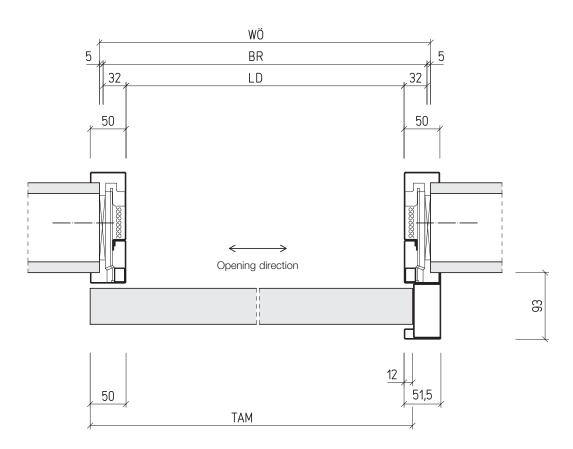
Sliding door systems

Automatically operated sliding doors

Details / installation situation

Model 3 N-ST, steel frame, solid wall

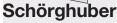


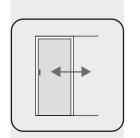






819



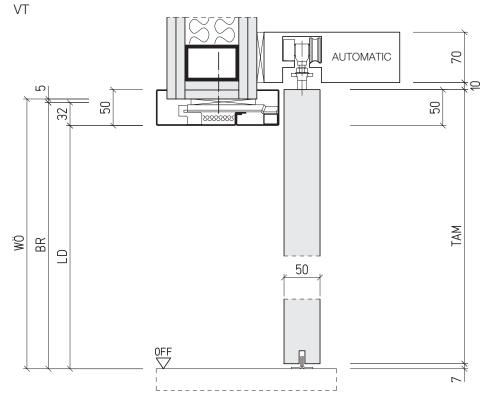


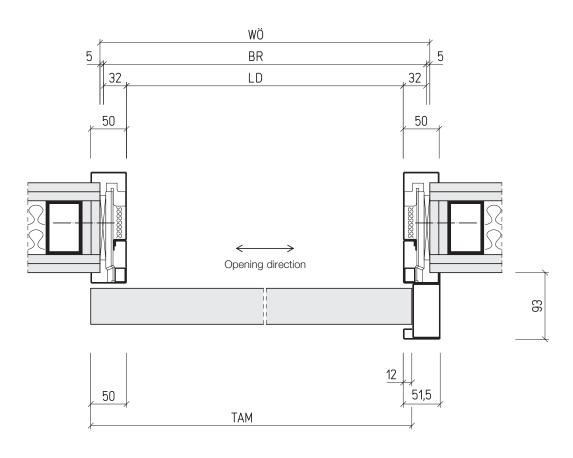
Automatically operated sliding doors

7.7

Details / installation situation

Model 3 N-ST, steel frame, gypsum plasterboard wall







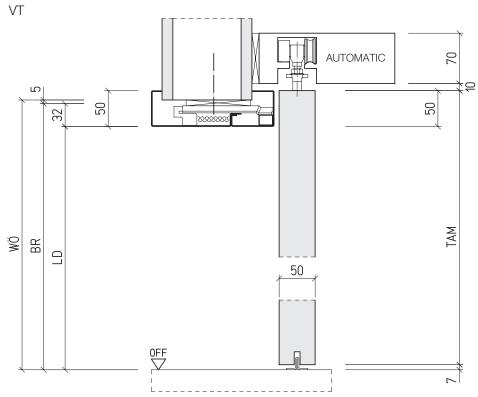
Schörghuber

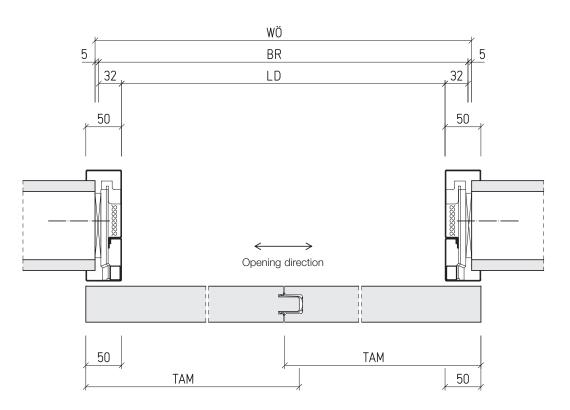
Sliding door systems

Automatically operated sliding doors

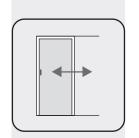
Details / installation situation

Model 4 N-ST, steel frame, solid wall







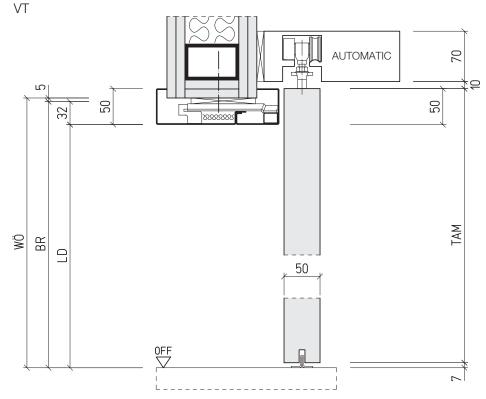


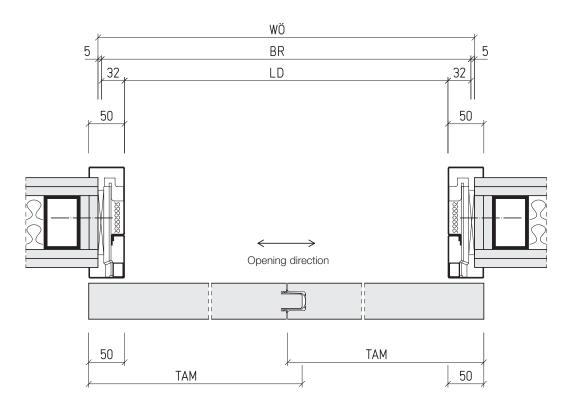
Automatically operated sliding doors

7.7

Details / installation situation

Model 4 N-ST, steel frame, gypsum plasterboard wall









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General information

In order to meet the requirents on site, the wishes of the developer and also satisfy architectural ideas, Schörghubers extensive range of products also offers solutions to unique problems. It goes without saying that for the realisation of the customers wishes the necessary functions of the door sets are taken into account, in fact they are the number one priority.

The extensive range of technical approvals and certificates Schörghuber aquired offers a great selection of Fire-Protection options as well as a large number of technical approvals for Smoke-Protection-Doors. Further technical approvals for Sound-Insulation and Burglar-Protection complete the product range.

In addition to the product range alterations from the technical approvals or Schörghuber Smoke-Protection certificates can be arranged through an approval for the individual case.

For some of the necessary requirements we can draw upon already prepared solutions which are presented in this chapter. These options just offer a limited overview. Additional individual solutions can of course be developed on request – Schörghuber has specialised hereupon.

Individual solutions may affect installation options, wall connections as well as alternate constructions or different combinations of these. Years of experience in this field allow a fast evaluation or judgement of the respective requirements. Nothing is immediately impossible and everything can be certified and prepared.





8 1

Upper door leaf edge specially shaped

Configuration options

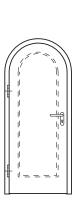
In combination with solid wooden frames 1- and 2-leaf door sets with a specially shaped upper door leaf edge can be produced. These are for example round arch, segmental arch or basket arch, or also bevel and roof-like shaped geometries.

Individual door leaf configurations such as Door leaf glazings, fillings or casettes are possible. Configurations like these are technically feasable with doors of types $5\,N/6\,N$, $16\,N/26\,N$, with a door leaf thickness of 70 mm, but also doors of types $25\,N/27\,N$ with a door leaf thickness of 73 mm.

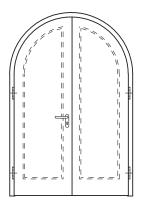
Optionally with frieze widths \geq 120 mm for door leafs with 70 mm thickness or even with frieze widths \geq 90 mm for door leafs with 73 mm thickness can be used.

As door closers function floor-mounted door closers with slide rail.

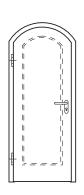
Configuration options for round arch, segmental or basket arch:



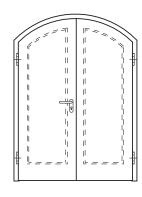
Round arch $R = \frac{ZFM-B}{2}$



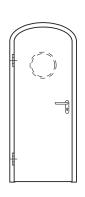
Round arch $R = \frac{ZFM-B}{2}$



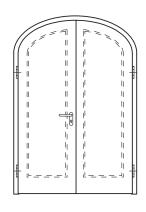
Segmental arch
Arch rise $\leq \frac{ZFM-B}{2}$



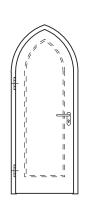
Segmental arch
Arch rise $\leq \frac{ZFM-B}{2}$



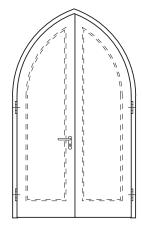
Basket arch Arch rise $\leq \frac{ZFM-B}{2}$



Basket arch Arch rise $\leq \frac{ZFM-B}{2}$



Pointed arch



Pointed arch

Configuration options for pointed arches **On request!**



R = Radius

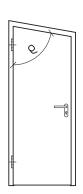
ZFM-B = Frame rebate dimension width



Upper door leaf edge specially shaped

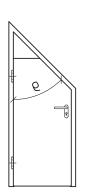
Configuration options

Configuration options for bevel or roof-like shaped geometries:



Towards hinge edge rising bevel

 $\theta \ge 80^{\circ}$



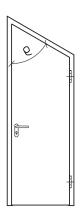
Towards hinge edge rising bevel with top panel

e ≥ 45°



Towards hinge edge rising bevel with flat spot

 $e_{\geq 60^{\circ}}$ $b \le 500 \text{ mm}$



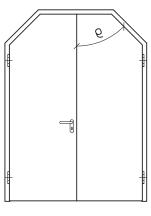
Towards lock edge rising bevel

 $e_{\geq 45^{\circ}}$



Roof-like shaped

Height ≤ ZFM-B



Roof-like shaped

 $\varrho \leq \overline{ZFM-B}$

= Angle between upper and lower hinge edge

BK = Hinge edge SK = Lock edge

Further configuration options on request!

Possible multiple functions

			Multiple functions										
	Door type	max. BR	T 30	RS	Rw,P 32	Rw,P37	Rw,P 42	Rw,P 48	WK2	VT			
1-leaf door	3 N	1314 x 2500 mm	0	0	0				0	0			
	13 N	1314 x 2500 mm	0	0		0			0	0			
	16 N	1375 x 3000 mm	0	0	0				0	0			
	5 N	1314 x 2500 mm	0	0		0	0		0	0			
	35 N	1250 x 2250 mm	0	0	0	0	0		0	0			
	25 N	1375 x 3000 mm	0	0	0					0			
	10 N	1375 x 3000 mm	0	0	0	0	0	0		0			
2-leaf door	4 N	2500 x 2500 mm	0	0	0					0			
	26 N	3000 x 3000 mm	0	0	О					0			
	6 N	2500 x 2500 mm	0	0		0	0			0			
	27 N	2750 x 3000 mm	0	0	0					0			
	20 N	3000 x 3000 mm	0	0	0	0	0			0			

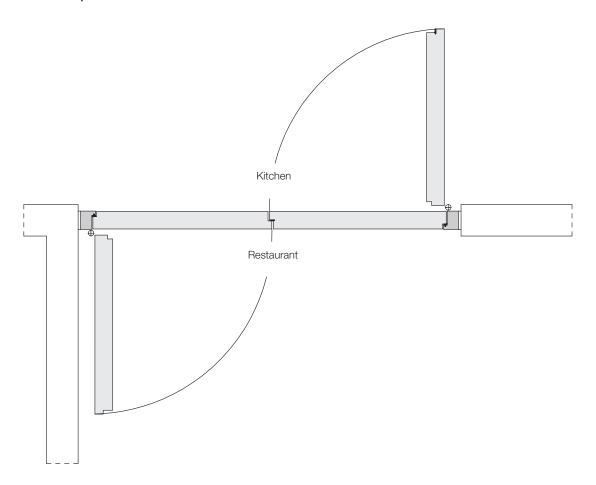




Reverse doors

Examples of use





Frequently used areas with high foot traffic in both directions.

Recommondation

Use two automatic door operators for perfect functionality.

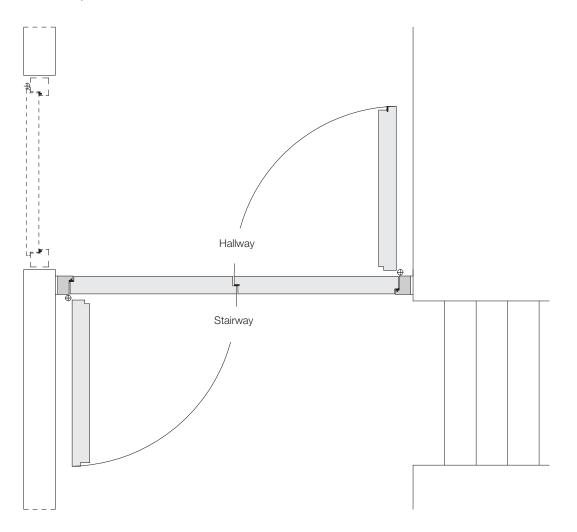






Reverse doors

Examples of use



For narrow areas with open doors during service time.



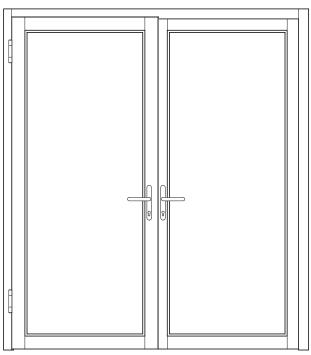


Reverse doors

Configuration options

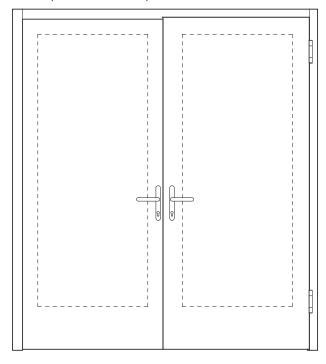
Solid wood framed doors Type 27 N GLT

T 30, RS, SD 32, SD 37 and VT



Panel doors Type 26 N GLT and 6 N GLT

T 30, RS, SD 32, SD 37 and VT On request with vision panel





Equipment options

- All door closer options for 1-leaf doors (no door coordination required)
- Shot-bolt locks with / without panic function
- Electrical strikes
- Automatic door operator on one or both door leafs

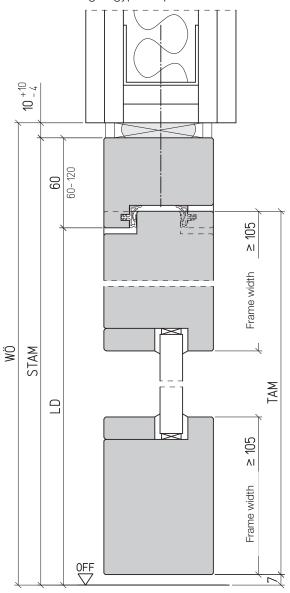


Reverse doors

Details, Installation situations

Solid wood framed construction Type 27 N GLT

Screw fastening in gypsum plasterboard wall



Possible multiple functions

		Multiple functions						
Door type	max. BR	T 30	RS	Rw,P 32	Rw,P 37	VT		
27 N GLT	2500 x 2500 mm	0	0	0	0	0		
26 N GLT	2500 x 2500 mm	0	0	0		0		
6 N GLT	2500 x 2500 mm	0	0		0	0		



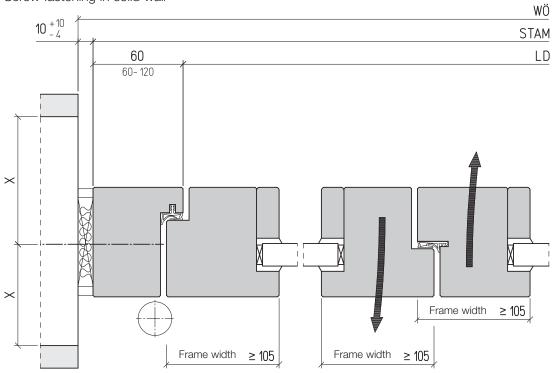
8.1.2

Reverse doors

Details, installation situations

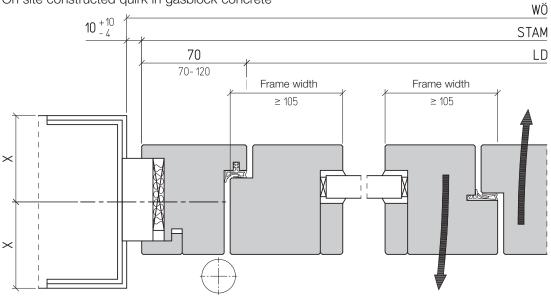
Solid wood framed construction Type 27 N GLT

Screw fastening in solid wall



Solid wood framed construction Type 27 N GLT

On site constructed quirk in gasblock concrete





Vooden special doors



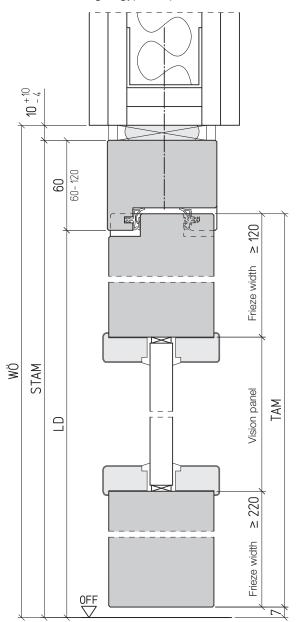
Individual solutions

Reverse doors

Details, Installation situations

Panel doors Type 26 N GLT and 6 N GLT

Screw fastening in gypsum plasterboard wall





832

8.1.2



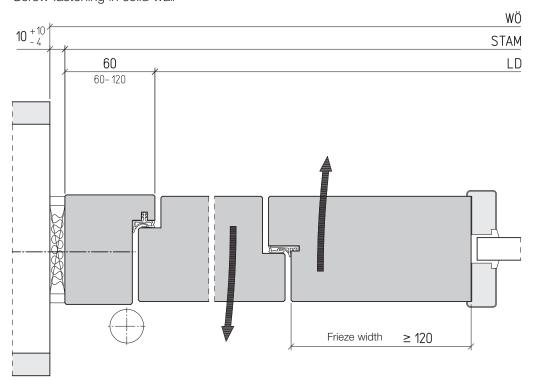
Individual solutions

Reverse doors

Details, Installation situations

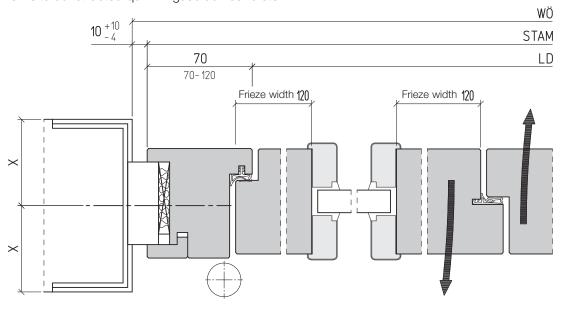
Panel doors Type 26 N GLT and 6 N GLT

Screw fastening in solid wall



Panel doors Type 26 N GLT and 6 N GLT

On site constructed quirk in gasblock concrete

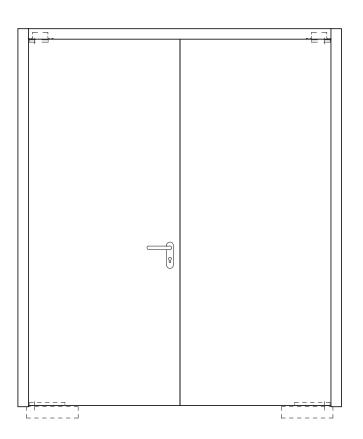


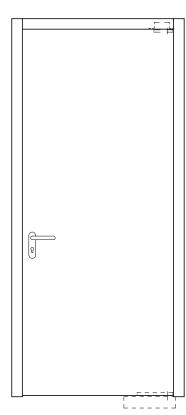


Recessed door

Overview

A recessed door is preferably used for hallways with open doors during service time. The special construction and selection of fittings allows an installation of door and frame flush to the wall with the smallest possible joints. As door closer operates a floor-mounted door closer, for 2-leaf door sets with intergated door coordination.





View of a 2-leaf respectively 1-leaf recessed door in closed state.

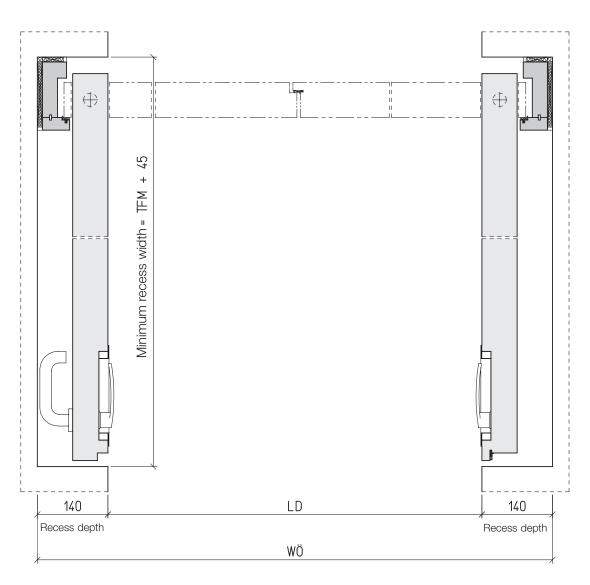




Recessed door

Horizontal cross section





Horizontal cross section of a 2-leaf recessed door in open and closed state.

Recommondation

A total flush surface is obtained if a flush handle is installed on the hallway side (push side).

Possible multiple functions

			Multi	ple fund	ctions	
Door type	max. BR	T 30	RS	Rw,P32	Rw,P 37	VT
16 N	1500 x 3500 mm	0	0	0		0
5 N	1500 x 3000 mm	0	0		0	0
26 N	3000 x 3500 mm	0	0	0		0
6 N	3000 x 3000 mm	0	0		0	0



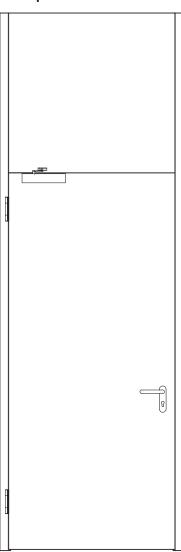


Frames without head

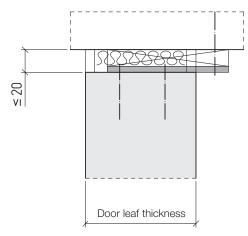
Overview / Details

Door sets with counter rebated top panel can be delivered with frames without head. The upper panel fastening is hereby done directly on the head or the ceiling. Steel and wooden frames can be used. The vertical frame posts are delivered in bulk and mounted using a pattern.

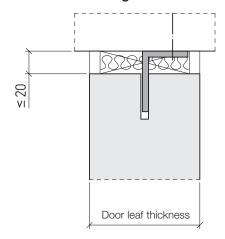
Example: 1-leaf door



Version of the upper connection



Bracket fastening





8.1.4



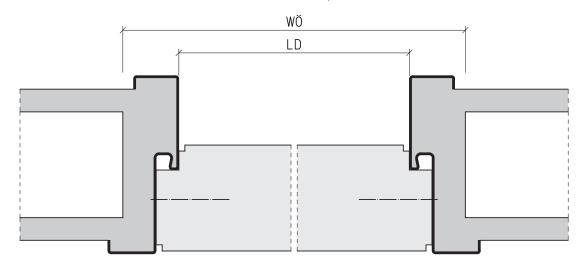
Individual solutions

Frames without head

Example

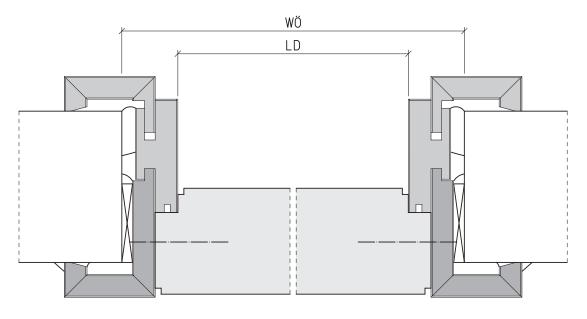
Example: steel wrap-around frame

Horizontal cross section in the area of the panel



Example: wooden wrap-around frame

Horizontal cross section in the area of the panel



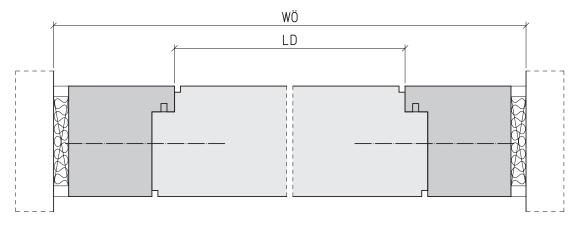


Frames without head

Example

Example: solid wooden frame

Horizontal cross section in the panel area



For solid wooden frames the top panel is flush on both sides and is screwed to the vertical frame posts.

Possible multiple functions

			N	1ultiple	functior	าร	
Door type	max. BR	T 30	RS	Rw,P 32	Rw,P 37	Rw,P 42	VT
3 N, 13 N	1375 x 3500 mm	0	0	0	0		0
16 N	1500 x 4000 mm	0	0	0			0
5 N	1500 x 3500 mm	0	0		0	0	0
4 N, 14 N	2750 x 3500 mm	0	0	0	0		0
26 N	3000 x 4000 mm	0	0	0			0
6 N	3000 x 3500 mm	0	0		0	0	0



8.1.5

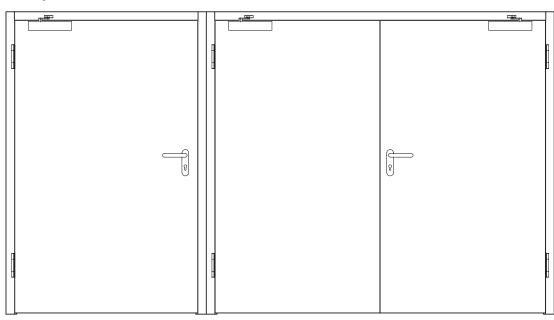


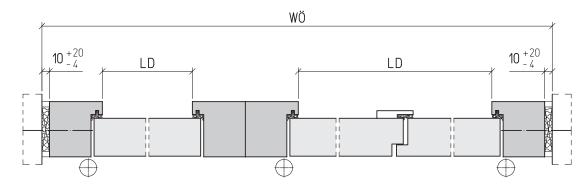
Individual solutions

Connected door sets

1-and 2-leaf door sets can be arranged next to each other, frame to frame. This combination is used for example for wide distribution boxes or entrance doors for great concert halls. Hereby usually a solid wooden frame is used with additional fastening of the vertical frame posts, which are fastened to the floor using steel brackets.

Example: 1- and 2-leaf door set model 3.00 and 4.00





Possible multiple functions

			N	1ultiple	functior	าร	
Door type	max. BR	T 30	RS	Rw,P 32	Rw,P 37	Rw,P 42	VT
3 N, 13 N	1375 x 3500 mm	0	0	0	0	0	0
16 N	1500 x 4000 mm	0	О	0			0
5 N	1500 x 3500 mm	0	0		0	0	0
25 N	1500 x 5000 mm	0	0	0	0		0
4 N, 14 N	2750 x 3500 mm	0	0	0	0		0
26 N	3000 x 4000 mm	0	0	0			0
6 N	3000 x 3500 mm	О	О		0	0	0
27 N	3000 x 4000 mm	0	0	0	0		0







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RM

Highly sound-ing

Individual solutions

8.1.6

Highly sound-insulating double door sets

General information, performance overview

In order to reach sound insulation values higher than Rw,P = 50 dB, Schörghuber offers highly sound-insulating double door sets.

In many cases these double door sets are used as connecting doors of hotel suits or sensitive office areas (registry > executive's office).

The combination of two Sound-Insulation-Doors allows, depending on the combination, sound insulation values of

- Rw,P = 48 dB
- Rw,P = 55 dB
- Rw,P = 57 dB

The installation is possible in solid walls and gypsum plasterboard walls with a wall thickness of \geq 200 mm. If the wall thickness exceeds these values, sound insulation values of up to approx. 60 dB (Rw,P) are possible.

In order to reach the required sound insulation values it is absolutely necessary to chose the right wall connection, especially for gypsum plasterboard walls. Therefore, please refer to the manufacturer of gypsum plasterboard wall systems (e.g. Knauf, Rigips, Lafarge, Fels-Werke).

As frame options for highly sound-insulating double door sets wooden as well as steel wraparound frames are available. The door leaf edge configuration can either be unrebated, unrebated with jamb rebate or rebated.

A special attention has to be drawn towards the correct and accurate installation of the door set.

The cavities between solid wall and steel frame have to be completely filled with mortar, in gypsum plasterboard wall systems with mineral wool. In case of wooden wrap-around frames the cavities can be filled with either mineral wool or 2-K-PU-foam. For suitable materials please refer to \Longrightarrow chapter 2.5

The wall connection joint for steel frames in leightweight wall systems and wooden frames in gypsum plasterboard as well as solid walls has to be sealed with a permanent elastic material.

In the area of the bottom seal an effective disjunction of the screed is absolutely necessary.

The area between the doors should be ventilated seperately, otherwise the complete closing of the door element may be hindered by an air cushion between the door leafs.

Possible multiple functions

		Multiple functions				
Sound-insulation value	Combination	max. BR	T 30	RS	WK 2	WK 3
DD. 40 alD	13 N / 13 N	1375 x 2750 mm	0	0	0	
Rw,P = 48 dB	14 N / 14 N	2750 x 2750 mm	0	0		
D D 55 ID	13 N / 5 N	1375 x 2750 mm	0	0	0	0
Rw,P = 55 dB	14 N / 6 N	2750 x 2750 mm	0	0	0	0
D D 57 ID	5N/5N	1500 x 3000 mm	0	0	0	0
Rw,P = 57 dB	6N/6N	3000 x 3000 mm	0	0	0	0





8.1.6

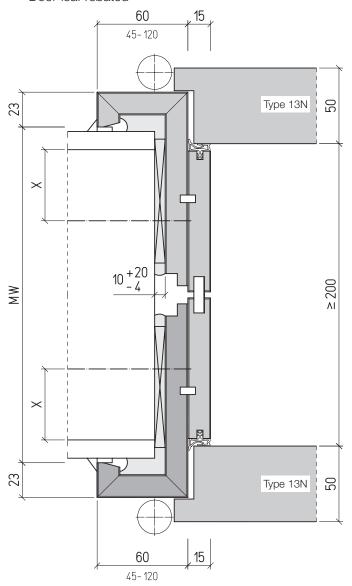
Highly sound-insulating double door sets

Configuration options

Sound insulation value Rw,P 48 dB

Wooden frame in solid wall

Door leaf rebated







8.1.6

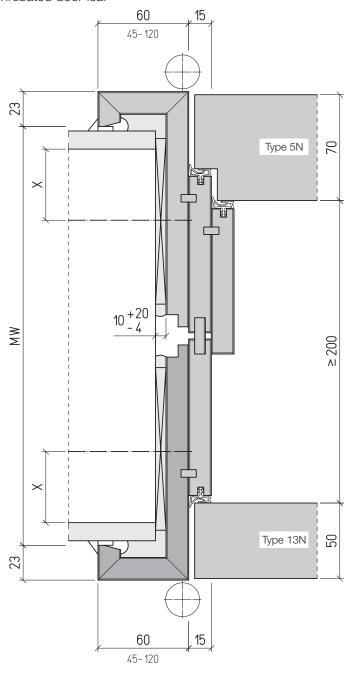
Highly sound-insulating double door sets

Configuration options

Sound insulation value Rw,P 55 dB

wooden frame in solid wall

Unrebated door leaf







8.1.6

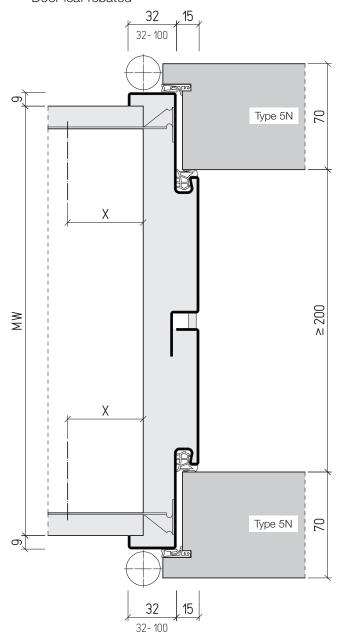
Highly sound-insulating double door sets

Configuration options

Sound insulation value Rw,P 57 dB

Steel frame in solid wall

Door leaf rebated





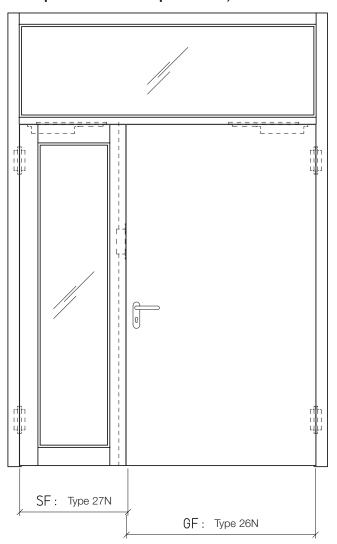
Combination of framed door and panel door

2-leaf Schörghuber doors can also be delivered as a combination of framed door and panel door. The use of a panel door as active leaf (Type 6 N or 26 N) and a framed door as inactive leaf (Type 27 N) offers the visual appearance of a fixed side panel with a maximum glass surface. The full functionality of a 2-leaf door remains intact.

Recommondation

By using concealed fittings (hinges, integrated door closer and for 2-leaf door sets concealed shot-bolt locks) the optical impression of a side panel is enhanced even more.

Example: active leaf as panel door, inactive leaf as framed door



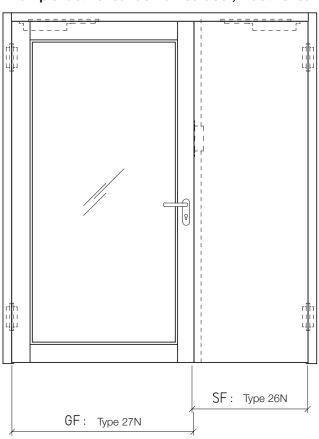




Combination of framed door and panel door

Alternatively the active leaf can also be configured as a framed door and the inactive leaf as a panel door.

Example: active leaf as framed door, inactive leaf as panel door





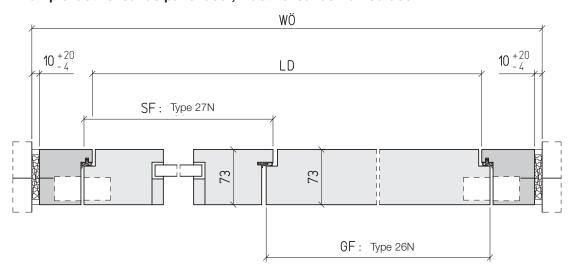


8.1.7

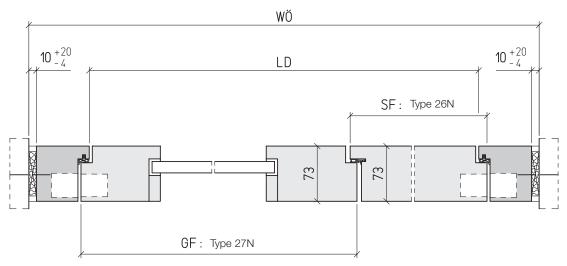
Combination of framed door and panel door

Horizontal cross section

Example: active leaf as panel door, inactive leaf as framed door



Example: active leaf as framed door, inactive leaf as panel door



Possible multiple functions

		Multiple functions						
Door type	max. BR	T 30	RS	Rw,P 32	Rw,P 37	Rw,P 42	VT	
26 N/27 N	3000 x 4000 mm	0	0	0			0	
6 N/27 N	3000 x 3500 mm	0	0		0		0	





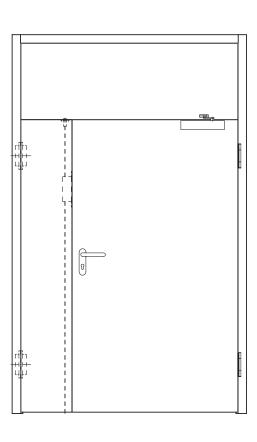
Fixed inactive leaf

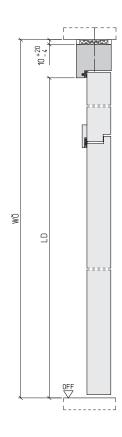
Schörghubers 2-leaf doors can also be delivered with a fixed inactive leaf.

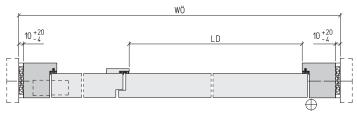
A door set with fixed inactive leaf contains the visual appearance of a 2-leaf door set, but the inactive leaf (side panel) can not be opened anymore. This can be realised with two possible versions.

Version 1

The inactive leaf is equipped with concealed hinges and a shot-bolt lock with bolted handle. Hereby a door closer on the inactive leaf becomes unnecessary and therefore also a door coordination is unnecessary. The door set can still be used as a 2-leaf door set when it is opened by authorised personel, using a screw driver, in order to have the whole clear passageway available, for example to move furniture.









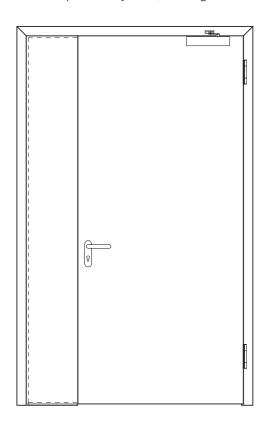


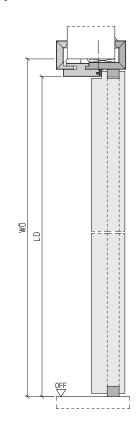
Fixed inactive leaf

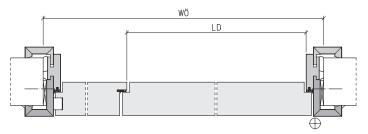
Example

Version 2

Inactive leaf without fittings, attached to bars and glued to the frame. The inactive leaf can not be opened anymore, no hinges or locks are necessary.







Possible multiple functions

				Multi	ole fund	ctions		
Door type	max. BR	T 30	RS	Rw,P 32	Rw,P 37	Rw,P 42	WK 2	VT
4 N, 14 N	2750 x 3500 mm	0	0	0	0			О
26 N	3000 x 4000 mm	0	0	0			0	0
6 N	3000 x 3500 mm	0	0		0	0	0	О
27 N	3000 x 5000 mm	0	0	О	0		0	0



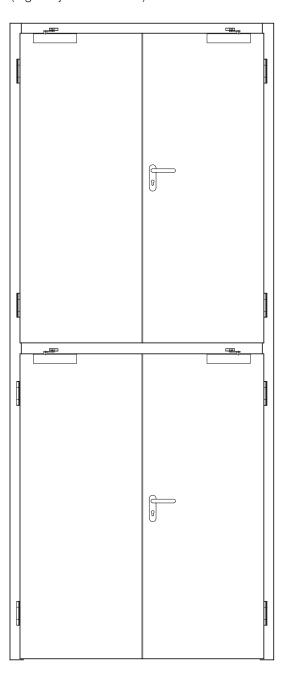


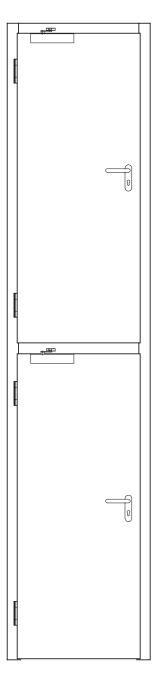


Top panel as flap

Overview

For door sets with transom and top panel the top panel can be configured as 1- or 2-leaf flap (e.g. for junction boxes).





8.1.9

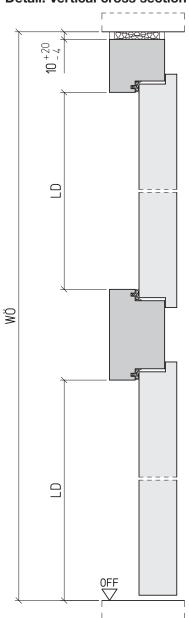




Top panel as flap

Details

Detail: Vertical cross section



Possible multiple functions

			N	lultiple ⁻	function	าร	
Door type	max. BR	T 30	RS	Rw,P 32	Rw,P 37	Rw,P 42	VT
3 N, 13 N	1375 x 3500 mm	0	0	0	0	0	0
16 N	1500 x 4000 mm	О	О	0			0
5 N	1500 x 3500 mm	0	О		0	0	0
25 N	1500 x 5000 mm	0	0	0	0		0
4 N, 14 N	2750 x 3500 mm	0	0	0	0		0
26 N	3000 x 4000 mm	0	О	0			0
6 N	3000 x 3500 mm	0	О		0	0	0
27 N	3000 x 4000 mm	О	0	0	0		0



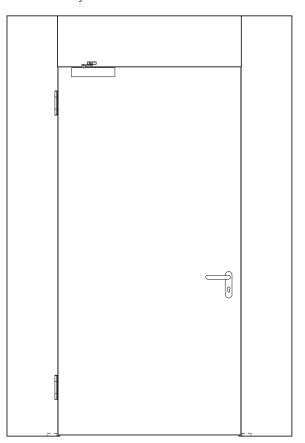


8.1.10

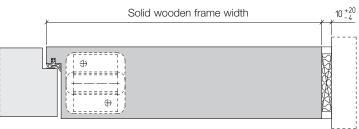
Broadened wooden frame

Overview / Details

Solid wooden frames can on request be broadened over 250 mm. To fix it properly the frame is additionally fastened on the floor.



Horizontal cross section: solid wooden frame with additional fixing point



Possible multiple functions

			N	1ultiple ⁻	function	าร	
Door type	max. BR	T 30	RS	Rw,P 32	Rw,P 37	Rw,P 42	VT
3 N, 13 N	1375 x 2750 mm	0	0	0	0	0	О
16 N	1500 x 3500 mm	0	0	0			О
5 N	1500 x 3000 mm	0	0		0	0	О
25 N	1500 x 3750 mm	0	0	0	0		О
35 N	1314 x 2282 mm	0	0	0	0		О
4 N, 14 N	2750 x 2750 mm	0	0	0	0		О
26 N	3000 x 3500 mm	0	0	0			О
6 N	3000 x 3000 mm	0	0		0	0	О
27 N	1500 x 3750 mm	0	0	0	0		0







8.1.11

Door in wall covering

Overview / Example

Schörghuber doors can be installed as concealed doors, integrated in wall coverings. The two available versions thereby offer a maximum reduction of the visible joints.

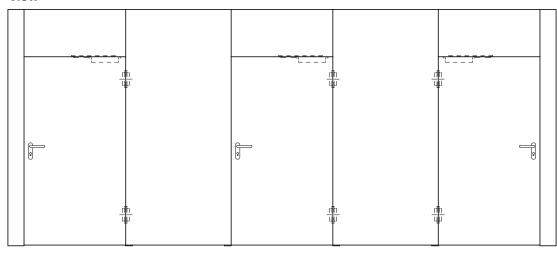
Recommondation

By using concealed fittings (hinges, integrated door closer and for 2-leaf door sets concealed shot-bolt locks) the optical impression of a flush and connected surface is enhanced even more.

Version 1: door sets connected by side panels

Example with top panels and side panels

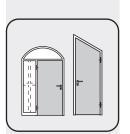
View



Possible multiple functions

			N	1ultiple	function	าร	
Door type	max. BR	T 30	RS	Rw,P 32	Rw,P 37	Rw,P 42	VT
3 N, 13 N	1375 x 2750 mm	0	0	0	0	0	0
16 N	1500 x 3500 mm	0	0	0			O
5 N	1500 x 3500 mm	0	0		0	0	0
25 N	1500 x 3750 mm	0	0	0	0		0
4 N, 14 N	2750 x 2750 mm	0	0	0	0		0
26 N	3000 x 3500 mm	0	0	0			0
6 N	3000 x 3000 mm	0	0		0	0	0
27 N	1500 x 3750 mm	0	0	0	0		0





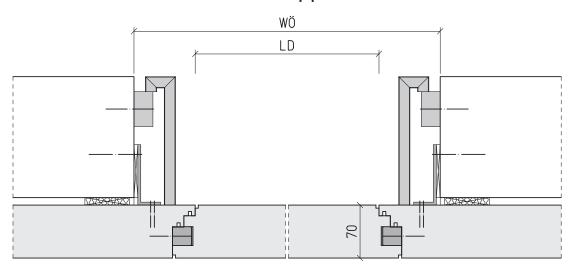
Door in wall covering

Details

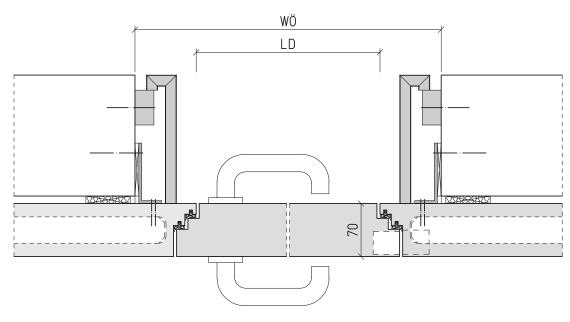
Version 1:

Example with 2 sealing levels for increased Sound-Insulation

Horizontal cross section in the area of the top panel



Horizontal cross section in the area of the door







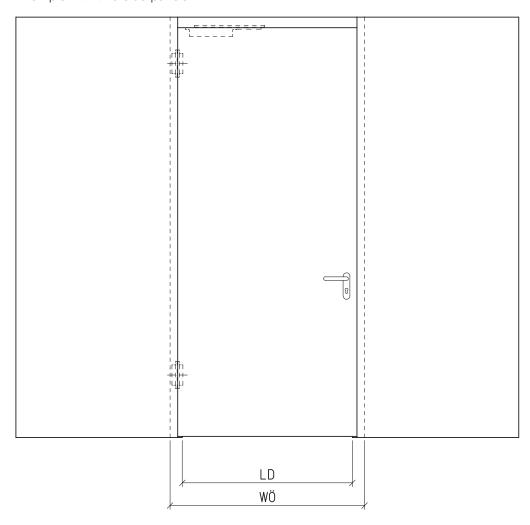
8.1.11

Door in wall covering

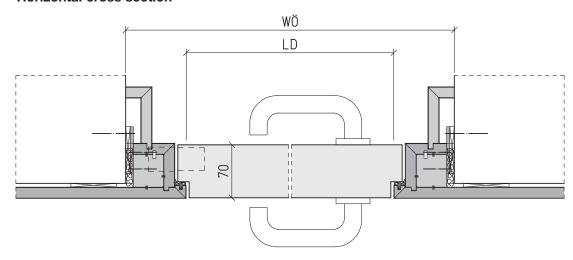
Example / Details

Version 2: side or top panels as elongation of a frame fold part

Example with two side panels



Horizontal cross section







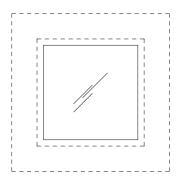
8.2.1

Wall connection of frameless glazings

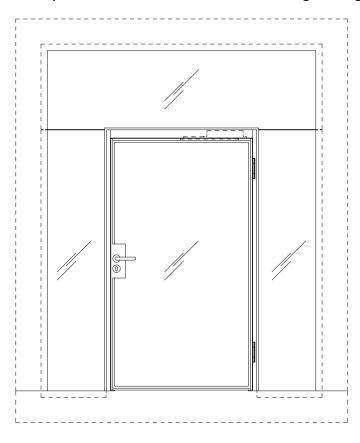
Overview

The wall connection of fixed glazings Type 25 V, but also of glazed side panels or fanlights of door sets, can be integrated directly in the wall covering or connected to the wall as frameless glazing.

Example: fixed glazing Type 25 V as single pane glazing



Example: Model 25.00 "slimline" free-standing in the glazing





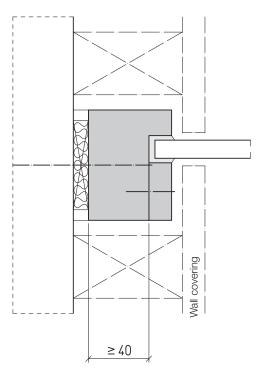


8.2.1

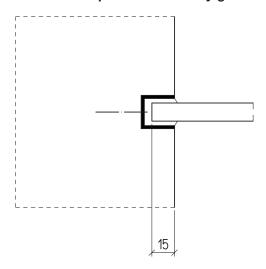
Wall connection of frameless glazings

Version

Version 1: with solid wooden frame



Version 2: U-profile in masonry groove





856

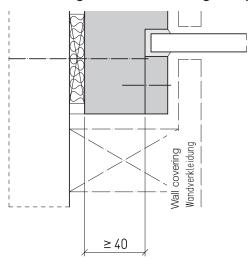


8.2.1

Wall connection of frameless glazings

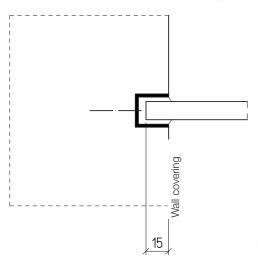
Version

Version 3: groove in connecting wall (concrete wall)



Wall covering optional

Version 4: steel bracket fastening



Wall covering or plaster optional

Possible multiple functions

			N	1ultiple 1	function	าร	
Door type	max. LD	T30/F30	RS	Rw,P 32	Rw,P 37	Rw,P 42	VT
3 N, 13 N	1311 x 2718 mm	0	О	0	0	0	О
16 N	1436 x 3468 mm	0	О	0			О
5 N	1436 x 2968 mm	0	О		0	0	О
25 N	1436 x 3718 mm	0	0	0	0		0
4 N, 14 N	2686 x 2718 mm	0	0	0	0		0
26 N	2936 x 3468 mm	0	О	0			О
6 N	2936 x 2968 mm	0	О		О	0	О
27 N	29,36 x 3718 mm	0	О	0	0		О
25 V	unlimited x 5000	О	О	0	0	0	О





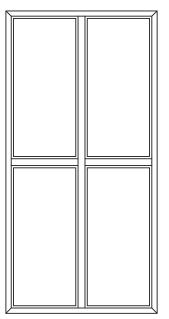
Fixed glazing Type 25 V with alternative frame materials

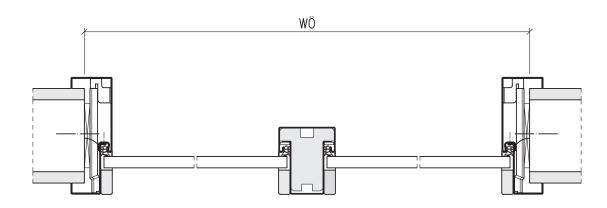
Overview / Example

The fixed glazing Type 25 V is not only available as solid wood door set, but also with wooden wrap-around frame, wooden block frame or steel frame.

All infills (glass, fillings, panels) can also, as with the frame made of solid wood, be inserted in the according sizes. As wall connections the versions shown in the chapter "Frames" can be chosen from.

Example: 2-part steel frame in trapezoid anchor fastening





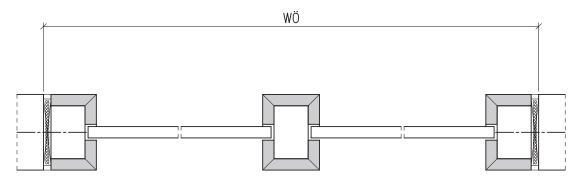




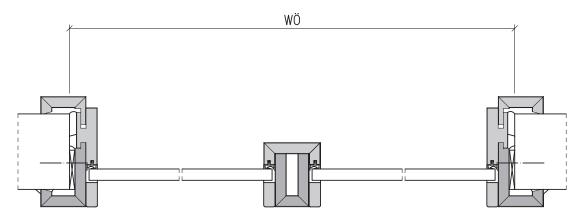
Fixed glazing Type 25 V with alternative frame materials

Example

Example: wooden block frame



Example: wooden wrap-around frame



Possible multiple functions

		Multiple functions					
Туре	max. BR	F 30	RS	Rw,P 32	Rw,P 37	Rw,P 42	VT
25 V	Unlimited. x 5000 mm	0	0	0	0	0	0





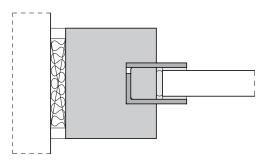
8.3.1

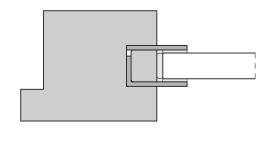
Stainless steel glazing beads

Overview / Details

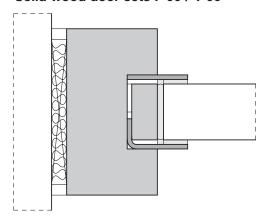
The glazing beads of solid wood door sets (glazing Type 25 V, 90 V and doors Type 25 N / 27 N, 91 N / 92 N) can be substituted by stainless steel glazing beads.

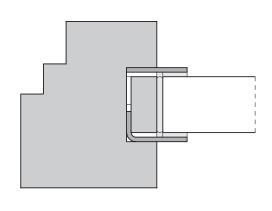
Solid wood door sets F 30 / T 30





Solid wood door sets F 90 / T 90





Possible multiple functions

		Multiple functions							
Туре	max. BR	T 30 / F 30 T 90 / F 90	RS	Rw,P 32	Rw,P37	Rw,P 42	VT		
25 N	1500 x 3750 mm	0	0	0	0		О		
27 N	3000 x 3750 mm	0	0	0	0		0		
91 N	1404 x 3028 mm	0	0	0	0				
92 N	2806 x 3028 mm	0	0	0	0				
25 V	unlimited x 5000 mm	0	0	0	0	0	0		
90 V	unlimited x 5000 mm	0	О	О	0	О			



8.3.2



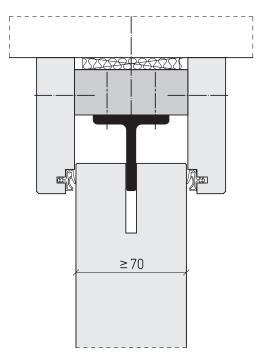
Individual solutions

Overlapping upper connection

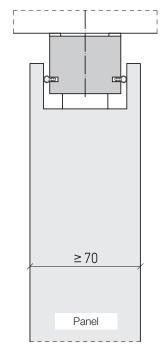
Overview / Details

Possible deformations in larger ceiling spans need to be absorbed by an overlapping upper connection in the area of the frame head, respectively the upper glazing frieze. Schörghuber can offer solutions for the different connection options and requirements.

Door set with with solid wooden block frame and fixed glazing



Top panel (for configuration without frame head)





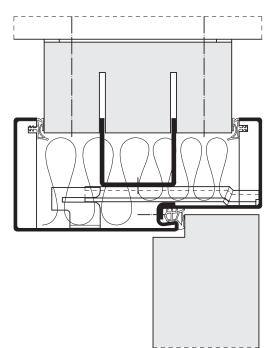


8.3.2

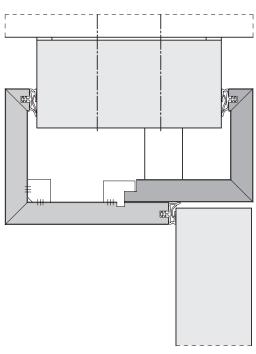
Overlapping upper connection

Details

Steel frame



Wooden block frame



Possible multiple functions

			Multiple functions					
Type	max. BR	T 30 / F 30	RS	Rw,P32	Rw,P 37	Rw,P 42	VT	
3 N/13 N	1375 x 3500 mm	О	0	0	0		0	
16 N	1500 x 4000 mm	0	0	0			0	
5 N	1500 x 3500 mm	О	0		0	0	0	
25 N	1500 x 5000 mm	O	0	0	0		0	
4 N / 14 N	2750 x 3500 mm	0	0	0	0		0	
26 N	3000 x 4000 mm	0	0	0			0	
6 N	3000 x 3500 mm	0	0		0	0	0	
27 N	3000 x 5000 mm	0	0	0	0		0	
25 V	unlimited x 5000 mm	0	0	0	0	0	0	



Schörghuber

ORM

8.3.3



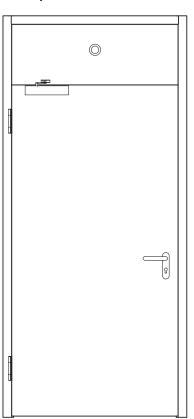
Individual solutions

Cable and pipe fairlead

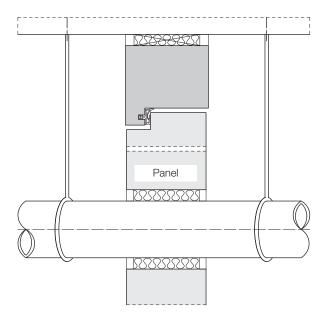
Overview / Details

Cable or pipe fairleads can be passed through openings in top panels or glazing panels respectively panel fields on site. In order to fulfil the requirements of the MLAR guideline certain specifications regarding diameter and material of the cable/pipe have to be taken into account. The configuration and sizing has to be adjusted for each individual case.

Example: 1-leaf door set with counter rebated top panel



Detail: cable and pipe fairlead through the top panel

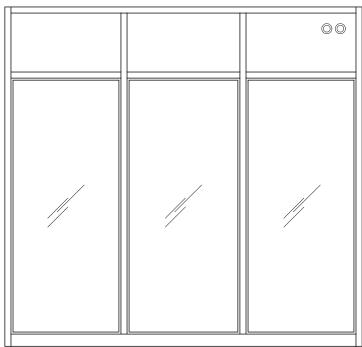




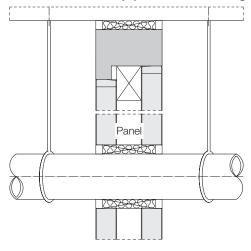


Individual solutions **Cable and pipe fairleads**Details

Example: fixed glazing Type 25 V



Detail: cable and pipe fairlead through flush double wall panel



Possible multiple functions

			Multiple functions				
Type	max. BR	T 30 / F 30	RS	Rw,P32	Rw,P 37	Rw,P 42	VT
16 N	1500 x 4000 mm	О	0	0			0
5 N	1500 x 3500 mm	О	0		0	0	0
25 N	1500 x 5000 mm	0	0	0	0		0
26 N	3000 x 4000 mm	0	0	0			0
6 N	3000 x 3500 mm	0	0		0	0	0
27 N	3000 x 5000 mm	0	0	0	0		0
25 V	unlimited x 5000 mm	0	0	0	0	0	0







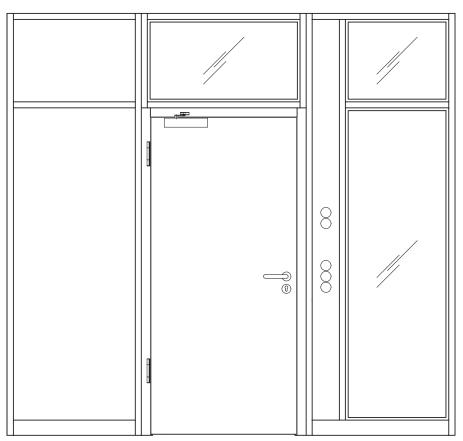
Junction boxes

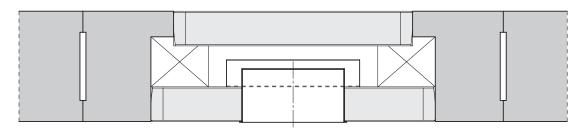
Overview / Example

Electrical installations such as light switches, door bells etc. require a junction box within the door set. Such installations can either be mounted directly into the frame, in a vertical post or in a connecting panel.

Example: junction boxes in panel field

- Fixed glazing Type 25 V





Horizontal cross section



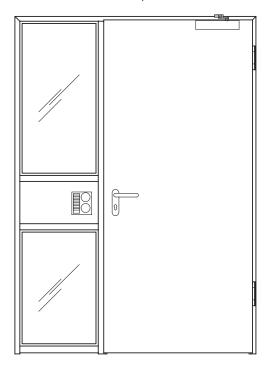


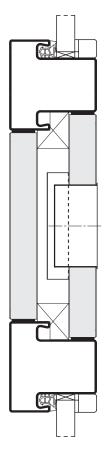
Junction boxes

Example

Example: junction boxes in panel fields between two horizontal transoms

- Fixed glazing Type 25 VDoor sets with side panels of steel or wooden frames





Vertical cross section



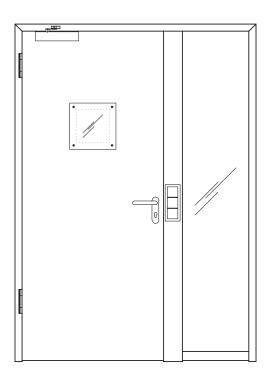


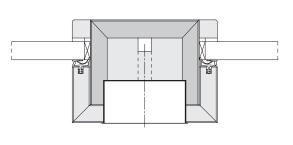
Junction boxes

Example

Example: junction boxes in vertical frame posts

- Door sets with side panel





Horizontal cross section



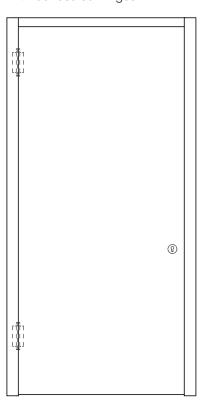


Omitting the door handle and / or the door closer

If the door is used as a supply shaft door or a electrical cabinet door the door handle and / or door closer can be omitted. If it is a Fire- or Smoke-Protection-Door it must be guaranteed that only authorised personnel can open the door with a key.

Element view

with concealed hinges





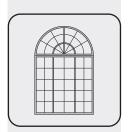
Fixed glazings

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Fixed glazings

General information

Fire-Protection-Glazings

Fire-Protection-Glazings are approved according to DIN 4102, part 13 and DIN EN 1634 in combination with DIN EN 1361-1 in renown material testing institutes. Fire-Protection-Glazings are not to be compared with walls (concrete, masonry, gasblock concrete or gypsum plaster-board walls), different testing procedures and norms apply.

Schörghuber glazings are used as vertical fixed glazings for internal and external areas. Extremely slim profile shapes, as well as high-class processing of solid wood respectively veneered surfaces enable the planning architect to create a transparent interior space with a great variety of individual scope of design.

F-Glazing Type 25 V, Type 90 V

F-Glazing are for example vertically arranged, translucend structural elements, which are designed to hinder the spreading of fire and smoke, according to their fire resistance class, as well as to provide a relevant reduction of heat emission in the case of a fire.

A F-Glazing has to be approved by the DIBt, in comparison to that a wall needs to be approved only by an officially approved institute, even though these structural elements are as well classified as F 30, F 60, F 90 etc.

G-Glazing Type 25 VG

G-Glazing are for example vertically arranged, translucend structural elements, which are designed to hinder the spreading of fire and smoke, according to their fire ressistance class. The heat emission in the case of a fire is just hindert slightly.

According to building regulations G-Glazings can only be installed at places which are not concerned dangerous in regard of the fire protection, e. g. as fanlight in hallways, if the bottom edge of the G-Glazing is at least 1,8 m above the finished floor level (OFF).

If the use of G-Glazings is permitted is decided on by the local building authorities for each individual case. The serviceability of G-Glazings has to be proven by an official certificate.

Combinations of Fire-Protection-Glazings with door sets

According to DIN 4102, part 13 official certificates are issued only, if the combined structural elements fulfil the requirements of the same fire resistance class. That means the Fire-Protection-Door and the connecting Fire-Protection-Glazing have to be approved for the same fire resistance class. Altering combinations are not permitted.

Smoke-Protection-Glazings Type 25 V

In contrast to Fire-Protection-Glazings there is no special approval norm (DIN) for Smoke-Protection-Glazings. Fixed glazings are considered smoke tight when the following conditions are met:

- Use of suitable Smoke-Protection security glazings
- Use of permanent elastic sealing materials, e.g. silicone
- Construction joint sealing
- Mounting according to manufacturer instructions

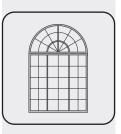
A labeling of Smoke-Protection-Glazings by building authorities does not take place.

The combination of Smoke-Protection-Doors with Smoke-Protection-Glazings has to be accounted for by the manufacturer.

The connection to other glazings such as manually produced fixed glazings is not approved and the approval certificate for the door would therefore loose its validation.

Please refer to DIN 4102, part 18 for the testing procedures of Smoke-Protection-Doors (please refer to DIN 18095, part 2, section 3.2). In part 4.1.6 of this document it is stated that a certificate concerning longterm functionality has to be provided for any connections and mountings of connecting structural elements.





Fixed glazings

General information

Fixed glazings without Fire- and Smoke-Protection function

Fixed glazings without Fire- and Smoke-Protection function do not require any special testing requirements. Depending on the structural situation and use any form of legal regulation such as accident prevention, public house and meeting regulations as well as general administrative regulations have to be obeyed.

Static assessment of glazings

A general technical Fire-Protection-Glazing describes this glazing as a construction method for the errection of non bearing, internal walls respectively for the installation of partially translucent internal wall areas. Therefore a Fire-Protection-Glazing is governed by the DIN 4103 part 1. Under section 4.101 the following general definition is given "Partition walls and thei connections to adjacent construction elements have to be constructed in a way that they can resist static (mostly stationary) and impulsive stresses, as they can occure under usage conditions."

The static stress is defined as 1,0 kN/m at a hight of 0,9 m over the finished floor surface (OFF). Hereby the allowed dynamic stress limits in the glazings static profiles are not to be exceeded. The resistance capabilities against impulsive stresses are verified through a so called soft impact test. Hereby the complete glazing element can not warp more than $^{1}/_{200}$ of its total height during an impact with an energy of E = 100 Nm (approx. a shoulder blast of an adult person). Furthermore the glazing may not be destroyed as a whole or locally broken-through.

Due to this all Fire-Protection-Glazings have to be statically assessed and therefore the profile geometry can not enirely be dimensioned according to the planners wishes. It is necessary that the fire protection and statically necessary minimum profile dimensions are stringently applied.

External glazings

Fixed and openable, self-closing glazings

Glazings for external areas, especially openable glazings (windows), are categorised in many different areas besides Fire-Protection. These are defined by the new DIN EN 14351-1, July 2006, windows and doors - product norm, performance characteristics.

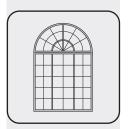
Schörghuber glazings are CE-labeled with the following defined characteristics:

- Resistivity against wind load
- Driving rain resistance
- Sound-Insulation
- Thermal transmission coefficient
- Air permeability
- Mechanical robustness
- Behaviour under different climate influences
- Burglar-Protection

The DIN EN 14351-1 is valid for windows without characteriatics concerning Fire-Protection and/or smoke impermeability. Therefore these characteristics can not yet be CE-labeled. These characteristics will be governed by the DIN EN 14351-3, which completion is not expected earlier than 3 to 5 years from now.

For further details see chapter 2.12.





Fixed glazings

General information

Surfaces

Schörghuber offers high-quality surfaces for fixed glazings:

- All standard types of veneer, coated or untreated
- Stained or transparently coated
- Prepared for on site coating
- Colour coated (e.g. RAL or NCS colours),
- HPL

Combinations

F 30 fixed glazings of Type 25 V and Schörghuber special doors in solid wooden frame form a very harmonic connection if combined. For the combination with F 90 glazings certified T 90 Fire-Protection-Doors with wooden block frame and solid wooden frame are available.

Dependable, complex manually manufactured combinations are solid wood framed doors Type 25 N and 27 N in combination with glazings of Type 25 V.

Furthermore every Schörghuber special door, depending on function and approval status, is combinable with all the above mentioned glazings.

Types of glass and glazing beads

Fixed glazings are by default equipped with clear glass. The type of glass always depends on the function of the glazing (Fire- and Smoke-Protection function, Sound-Insulation or glazings without requirements). Furthermore glazings can be equipped with patterened glass, laminated glass or special glass (screenprint or with a matt foil).

Fixed glazings can on request be equipped with Sound-Insulation glass. Available are the Phonstop glazings or for Fire-Protection the laminated glass Pyrostop-Phonstop.

Glazing beads are, depending on the function and the thickness of the glass, either veneered or in solid configuration, predetermined by the manufacturer. Special cross sections or profiled glazing beads can be manufactured and mounted according to customer specifications.

Infills

Instead of glass, fixed glazings of Type 25 V and 90 V can also be equipped with coffers and panels.

Safety against a fall

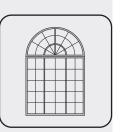
Fall-safe glazings are installed at places where humans are in thread of falling or impinging.

Areas of use are for example stairways or areaways. The technical regulations for fall-safe glazings are defined by the TRAV.

The affected structural elements must not be farther apart than one meter if no fall-safe glazing is installed.

Due to the use of special laminated glass Schörghuber Glazings (F30, F 90, RS, WK, SD and VT) can be deliverd as fall-safe glazings up to a height of max. 6000 mm whereas the maximum glass pane height is 4000 mm.



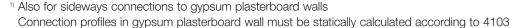


9.2

Fixed glazings F 30, G 30, RS, SD and MT

Dimensions and glass types

		Dimensions in mm				
Walls / glass	s types	F 30 Fixed glazings Type 25 V	G 30 Fixed glazings Type 25 V	RS/SD/MV Fixed glazings Type 25 V		
Solid wall 1) 3)	BR-width	unlimited	unlimited	unlimited		
	BR-height 2)	5000 mm	3500 mm	5000 mm		
	BR-width	unlimited	unlimited	unlimited		
Gasblock concrete	BR-height 2)	5000 mm	3500 mm	5000 mm		
Upper and lower con-	BR-width	4000 mm	4000 mm	unlimited		
nection to gypsum plasterboard wall ≥ F30	BR-height 2)	4500 mm	3500 mm	5000 mm		
Perimeter frame	,	≥ 55 (≤135/73 od. ≤120/95)	≥ 40 (≤120/73 od. ≤120/95)	≥ 40 (≤120/73 od. ≤120/95)		
Cross bars		≥ 70 (<135/73 od. <120/95)		≥ 40 (<120/73 od. <120/95)		
Middle frieze		≥125 (≤415/73 od. ≤400/95)	≥120 (≤400/73 od. ≤400/95)			
Pyrostop 30-10, clear glass, 15 mm		B x H 1300 x 2500 * B x H 2500 x 1300 *				
Pyrostop 30-20, clear glass, 18 mm		B x H 1500 x 3000 B x H 2500 x 1300 *				
Pyrostop 30-12,		B x H 1300 x 2500 *				
patterened glass, 16 mm		B x H 2500 x 1300				
Pyrostop-Phonstop 30-17, 31 mm		B x H 1300 x 2500 * B x H 2500 x 1300				
Pyrostop-Phonstop,		B x H 1300 x 2500 *				
patterened glass, 33 mm		B x H 2500 x 1300				
For external areas		B x H 1500 x 3000				
Pyrostop 30-35, 36 mi	m	B x H 2500 x 1300				
Pyrostop / Allstop com	npound glass	B x H 1300 x 2500 * B x H 2500 x 1300				
Contraflam 30 - N 2		B x H 1300 x 3500				
Contraflam 30 - N 2 ISO		B x H 3500 x 800				
Promat Systemglas 30)	B x H 1200 x 2700 ⁴⁾ B x H 2300 x 1200				
Type 1 and type 20	- 1	B X H 2300 X 1200				
PROMAGLAS 30, Type 1 PROMAGLAS 30, Type 3 PROMAGLAS 30, Type 5 PROMAGLAS 30, Type 5-GH PROMAGLAS 30, Type 10		B x H 1300 x 2500 ¹⁾	B x H 2500 x 1300 ¹⁾			
Allstop P4A-10, 10 mm Allstop P4A-GH, 31 mm Allstop P6B-10, 22 mm Allstop P6B-GH, 43 mm				1300 x 3500 1300 x 3500 1300 x 3500 1300 x 3500		
Pyrodur 30-10, clear glass, 7 mm			B x H 1200 x 2200 B x H 2200 x 1200	1300 x 2500		
Pyrodur 30-12, patterened glass, 8 mm			B x H 1200 x 2200 B x H 2200 x 1200	1300 x 2200		
Pyran S, 6 mm			B x H 1200 x 2200 B x H 2200 x 1200	1300 x 2500		



²⁾ From BR-height 2500 mm support posts might be necessary
From BR-height 3500 mm and a PA < 95 mm a support post is necessary

FORM®

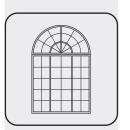
Schörghuber

Note: Please take minimum glass width-to-heigth ratio 1:10 into account. Other glass types and pane sizes on request.

³⁾ Also for upper connection to statical sufficiantly dimensioned covered hollow steel profiles ≥ F 30 A

⁴⁾ Only allowed for single window rows

 $^{^{\}star}$ The max. pane edge length is 3000 mm for a max. pane size of 1,8 m 2



Glazings 9.2

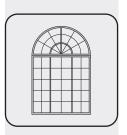
Fixed glazings F 30, G 30, RS, SD and MV

Dimensions and glass types

		Dimensions in mm			
Walls / glass types		F 30 Fixed glazings Type 25 V	G 30 Fixed glazings Type 25 V	RS/SD/MV Fixed glazings Type 25 V	
Stadip Silence 44.1, 8 mm Stadip Silence 55.1, 10 mm Stadip Silence 66.2, 13 mm Stadip Silence 88.1, 16 mm Stadip Silence 1010.1, 20 mm Stadip Silence 1212.2, 25 mm Climaplus Silence 34/45, 34 mm				1300 x 3200 1300 x 3200 1300 x 3200 1300 x 3200 1300 x 3200 1300 x 3200 1300 x 3200	
ESG, clear glass, 8 mm ESG, patterned glass, 8 mm ESG, Chinchilla blank, 8 mm				1300 x 3500 1300 x 3000 1300 x 3500	
ISO-panes				1300 x 3500	
DSG, clear glass, 7 mm			B x H 1200 x 2200 B x H 2200 x 1200	1300 x 3300	
VSG, clear glass, 8 mm VSG, patterned glass, 8 mm				1300 x 3500 1300 x 3000	
	Panel	B x H 1200 x 2500 B x H 2500 x 1200	B x H 1200 x 2200 B x H 2200 x 1200	1300 x 3500	
Infill	Coffer	B x H 1200 x 2500 B x H 2500 x 1200	B x H 1200 x 2200 B x H 2200 x 1200	1300 x 3500	
	Panel version II	B x H 1200 x 2500 B x H 2500 x 1200	B x H 1200 x 2200 B x H 2200 x 1200	1300 x 3500	

Note: Please take minimum glass width-to-height ratio 1:10 into account. Other glass types and pane sizes on request.





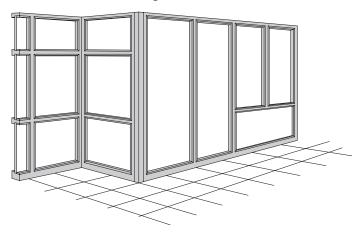
Glazings 9.3.1

Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

Examples of use

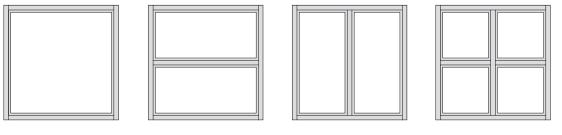
Transom-mullion-design



The cross bars can be, depending on the glass size, arranged in any order.

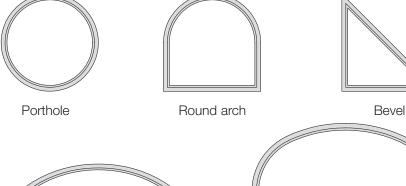
The single glass panes can be arranged either horizontally or vertically.

Segmentation examples



without segmentation Horizontal segmentation Vertical segmentation Cross segmentation

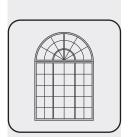




Segmental semicircular arch

Basket arch



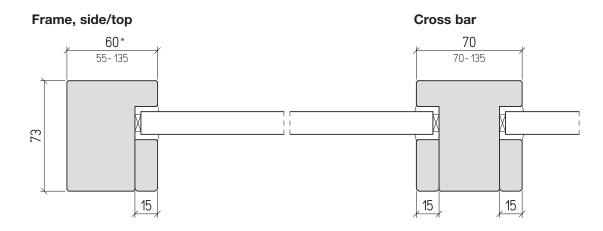


9.3.1

Fixed glazings F 30, Type 25 V

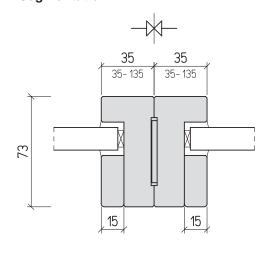
Internal areas with solid wooden frame

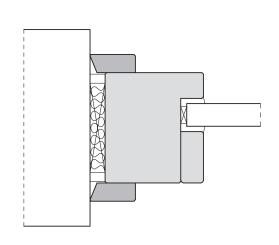
Construction and cross sections



Segmentation

Wall connection bead

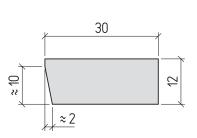


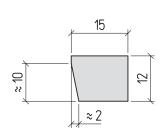


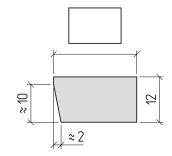
Wall connection bead Type / profile 3, 30/12

Wall connection bead Type / profile 4, 15/12

Wall connection bead Width / 12, state width







* Standard frame width 60 mm (minimum frame width acc. to certificate 55 mm), taking statical requirements into account the frieze widths may increase.

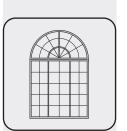


Schörghuber

Note:

Glass joint by default on pull side, on request on push side

9.3.1



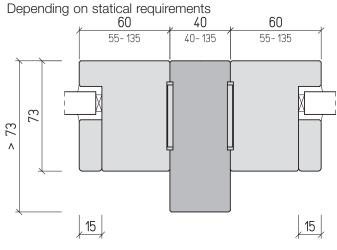
Glazings

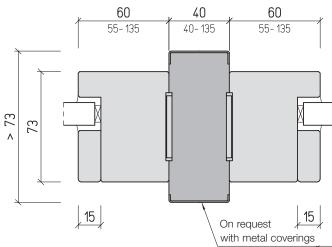
Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

Construction and cross sections

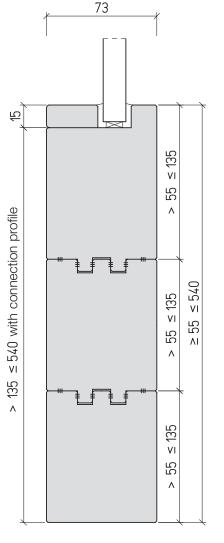
Support posts





Frame enlargings

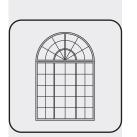
Side, top, bottom Configuration possible with 2-4 friezes





Note:

Glass joint by default on pull side, on request on push side

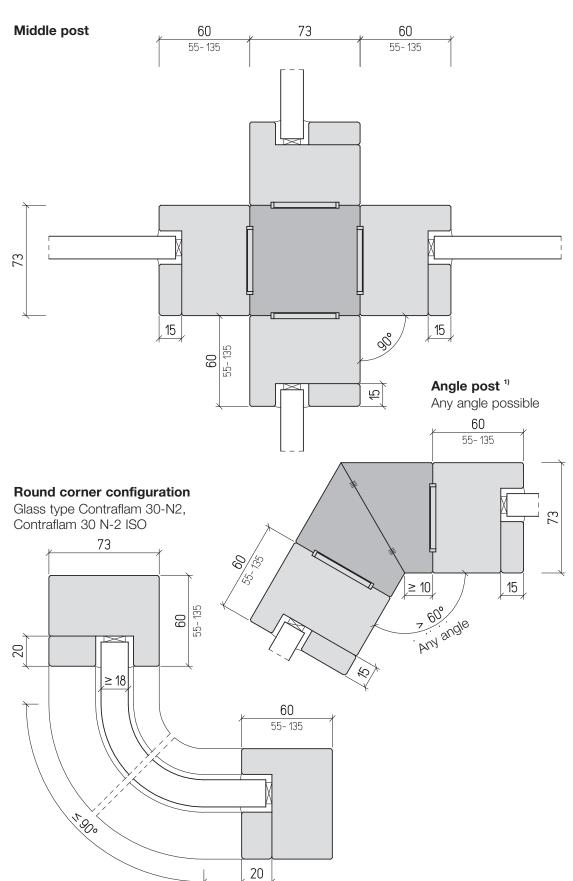


9.3.1

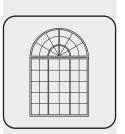
Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

Construction and cross sections







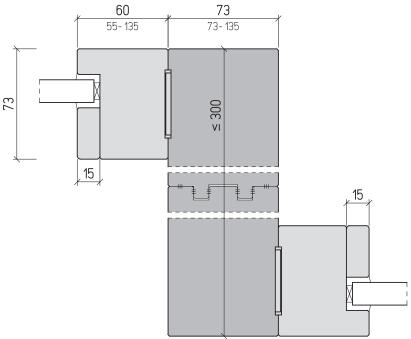
Glazings 9.3.1

Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

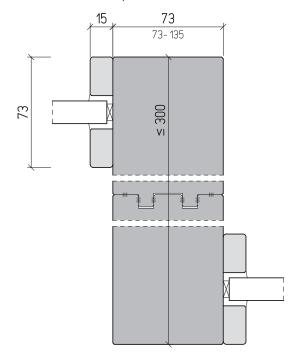
Construction and cross sections

Level-offset

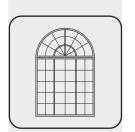


Level-offset

without additional posts







9.3.1

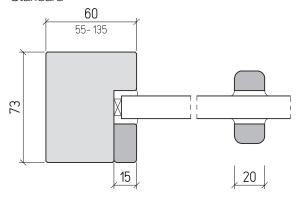
Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

Glazing options

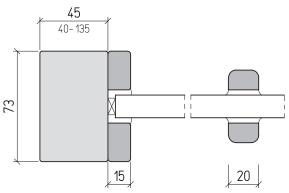
Glazing bead and decorative cross bar

Standard



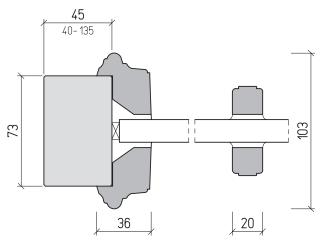
Glazing bead and decorative cross bar

Glazing bead on both sides



Glazing bead and decorative cross bar

Profile TS 7

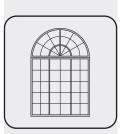




Note:

880

Glazing beads are by default delivered veenered, matching the configuration of the door veneer.



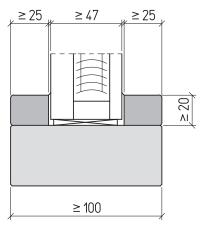
Glazings 9.3.1

Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

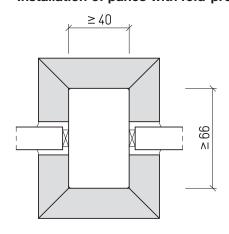
Glazing options

Installation of panes and blinds

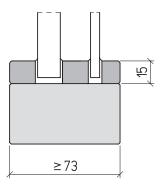


▲ Nassverglasung

Installation of panes with fold-profiles

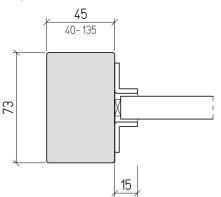


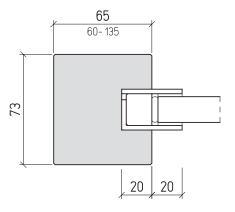
Installation of additional panes



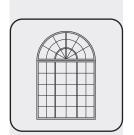
Installation of panes with metal bracket

(e.g. aluminium, stainless steel, brass)









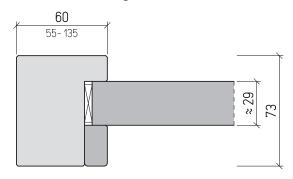
9.3.1

Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

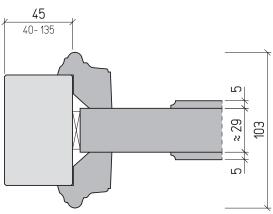
Glazing options

Panel instead of glass

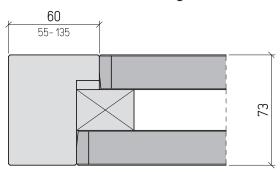


Coffer instead of glass

Profile TS 7



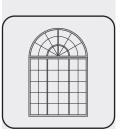
Panel version 2 instead of glass





882

9.3.1



Glazings

Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

Installation of doors

Standard segmentation

Glazing Type 25 V in combination with 1- and 2-leaf doors Type 3 N/4 N, 13 N/14 N, 5 N/6 N, 16 N/26 N, 25 N/27 N and 10 N/20 N

Segmentation 1 with top panel





with continuous top panel width ≤ 3000 mm and side panel



with top panel and continuous side panel

Segmentation 5

with side panel on hinge and lock edge

Segmentation 6

with continuous top panel width ≤ 3000 mm and side panel an hinge and lock edge

Segmentation 7

with top panel and continuous side panel on hinge and lock edge

Segmentation 8

Configuration according to drawing (for continuous top panel, width ≤ 3000 mm)

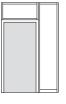


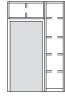






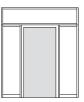




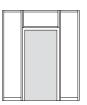


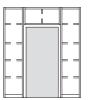


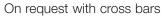


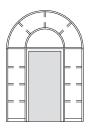








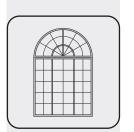






Take maximum glazing dimensions into account.





9.3.1

Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

Installation of doors

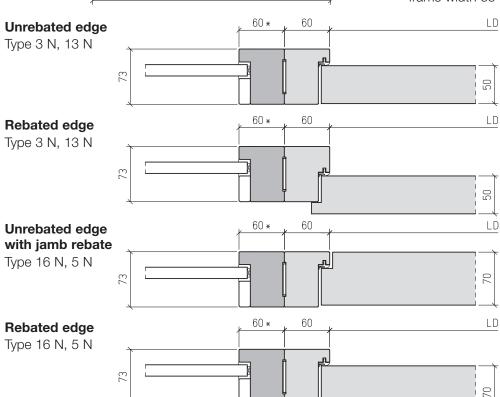
Configuration example 1-leaf door set

2-leaf door set analogue separated Element -09 9 STAM door TAM (a) 1050 H TAM 105 0FF 60 60 ~| LD 60 | | 60 60 60 STAM door STAM

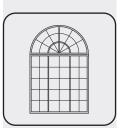
If connected on three points the solid wood frame width is by default 60 mm to glazings.

Door sets with continuous fanlight must not exceed a width of 3000 mm.

* Allowed minimum frame width 55 mm







Glazings 9.3.1

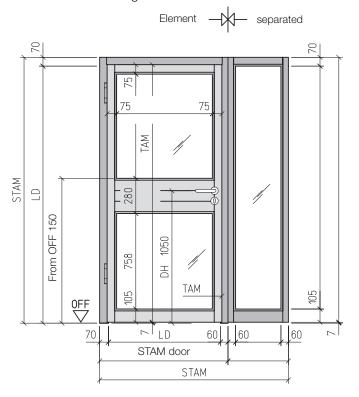
Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

Installation of doors

Configuration example 1-leaf door set

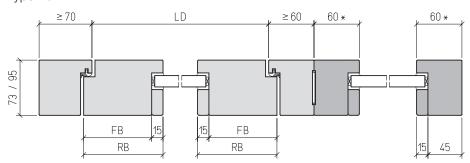
2-leaf door set analogue



If only connected on one or two points the solid wood frame width is by default 70 mm to the wall and 60 mm to glazings.

Unrebated edge with jamb rebate

Type 25 N



Configuration without middle frieze

Frame width side, top and bottom 105 mm

* Allowed minimum frame width 55 mm

FB = frieze width RB = frame width

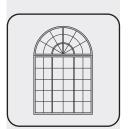


Special frieze

Door leaf height > 2972 mm

Frame width circumferential 135 mm

Door rebate width ≥ 1080 mm by default with a bottom frame width of 195 mm



9.3.1

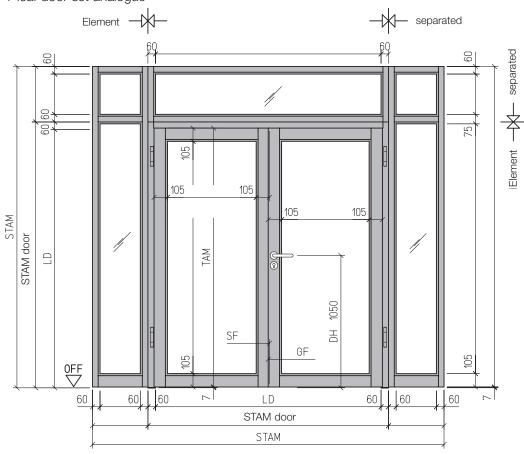
Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

Installation of doors

Configuration example 2-leaf door set

1-leaf door set analogue



Unrebated edge with jamb rebate

Type 27 N 60 × 60 × 60 LD RB FΒ 73 / 95 FΒ FΒ 45 RΒ * Allowed minimum frame width 55 mm

> FB = frieze width RB = frame width

Configuration with middle frieze ≥ 280 mm frame width

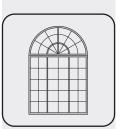
Frame width side and top 75 mm, bottom 105 mm



Special frieze

Door leaf height > 2972 mm Frame width circumferential 135 mm

Door rebate width ≥ 1080 mm by default with a bottom frame width of 195 mm

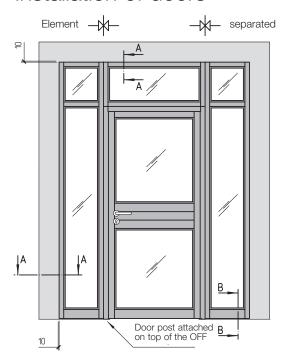


Glazings 9.3.1

Fixed glazings F 30, Type 25 V

Internal areas with solid wooden frame

Installation of doors



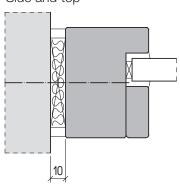


Note:

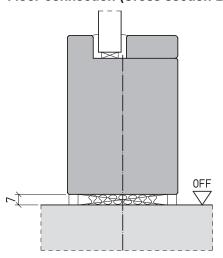
The single frames have to be assembled on site and according to the installation manual. Glass panes and glazing beads are enclosed in bulk.

Wall connection (Cross section A - A)

Side and top

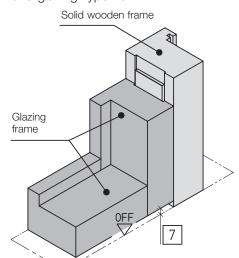


Floor connection (Cross section B - B)



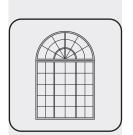
Combination of a solid wooden frame

and glazing Type 25 V



During the installation of **Solid wooden frames** it is necessary to assure a length projection of the frame to the glazing side parts of 7 mm (if hinges are installed) or 52 mm if a floor-mounted door closer is used.





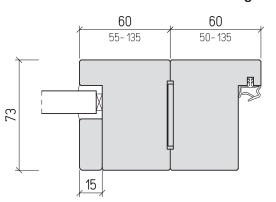
9.3.1

Fixed glazings F 30, Type 25 V

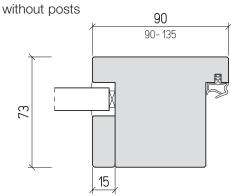
Internal areas with solid wooden frame

Installation of doors

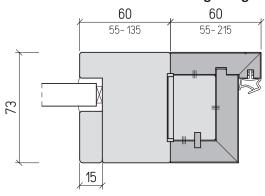
Door connection solid wooden frame/glazing



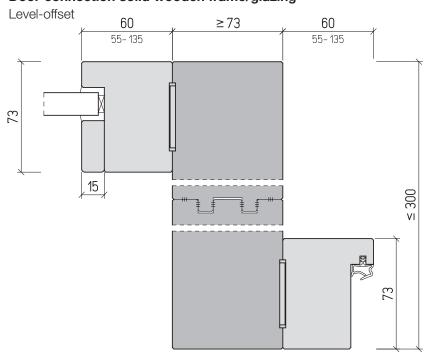
Door connection solid wooden frame/glazing



Door connection folded frame/glazing



Door connection solid wooden frame/glazing

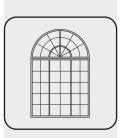




Note:

Glass joint by default on pull side, on request on push side

9.3.2



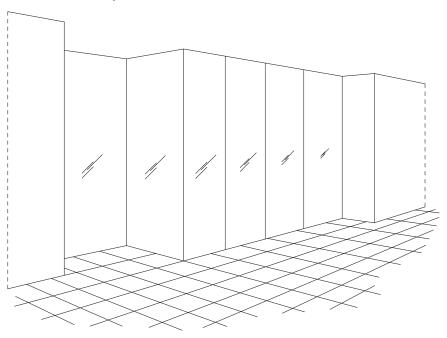
Glazings

Fixed glazings F 30, Type 25 V-S

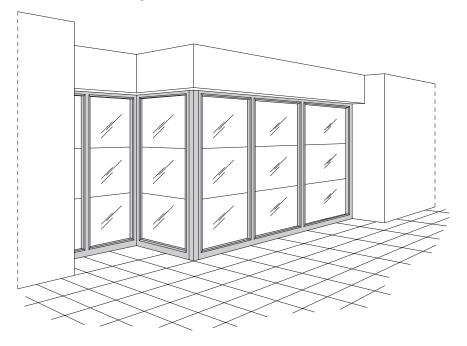
Internal areas, as full glass construction

Examples of use

Vertical silicone joint



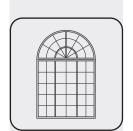
Horizontal silicone joint











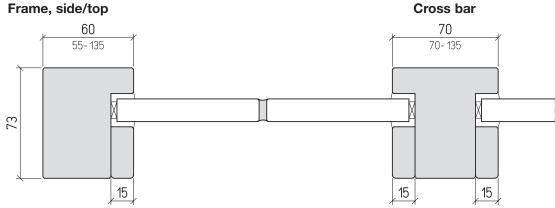
9.3.2

Fixed glazings F 30, Type 25 V-S

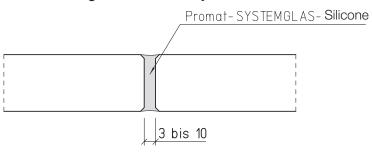
Internal areas, as full glass construction

Construction and cross sections

Glazing with Promat Systemglas 30



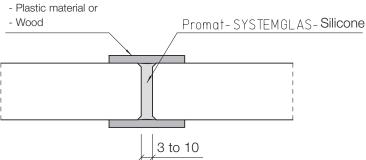
Detailed design of the silicone joints



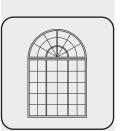
On request

The coverings are available in

- Stainless steel,
- Aluminium,







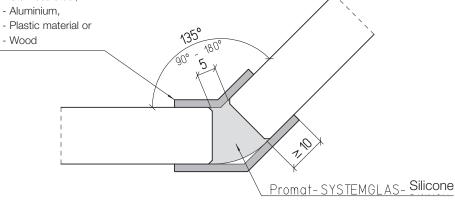
Fixed glazings F 30, Type 25 V-S

Internal areas, as full glass construction

Design of the glass joints

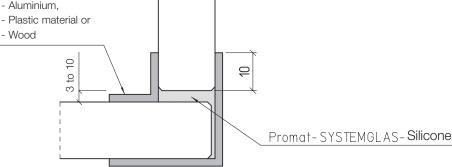
The coverings are available in

- Stainless steel,



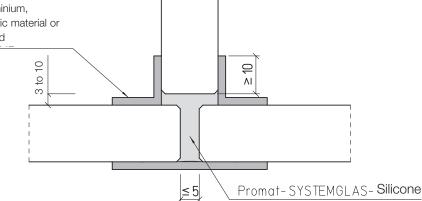
The coverings are available in

- Stainless steel,
- Aluminium,
- Wood

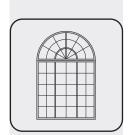


The coverings are available in

- Stainless steel,
- Aluminium,
- Plastic material or
- Wood







9.3.2

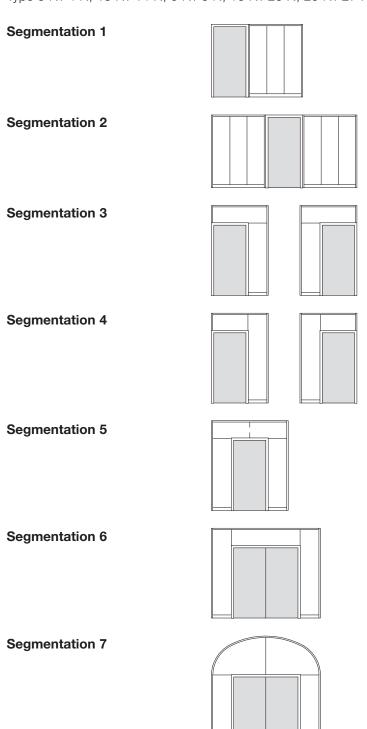
Fixed glazings F 30, Type 25 V-S

Internal areas, as full glass construction

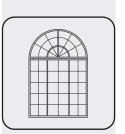
Installation of doors

Standard segmentation

Glazing Type $\overset{-}{2}5$ V in combination with 1- and 2-leaf doors Type 3 N/4 N, 13 N/14 N, 5 N/6 N, 16 N/26 N, 25 N/27 N and 10 N/20 N







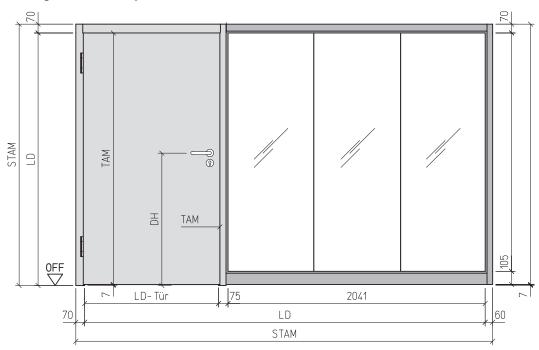
9.3.2

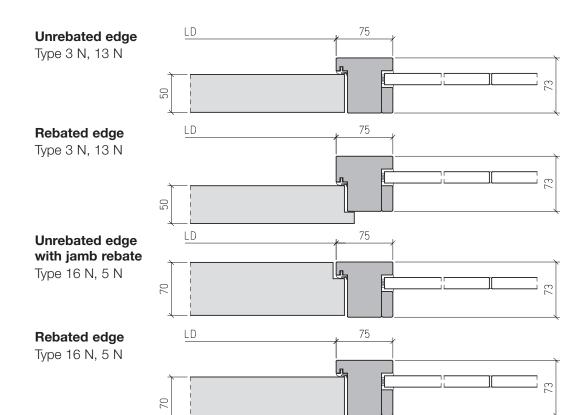
Fixed glazings F 30, Type 25 V-S

Internal areas, as full glass construction

Installation of doors

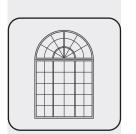
Configuration example 1-leaf door set











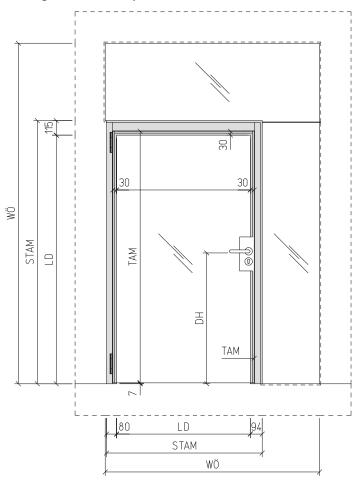
9.3.2

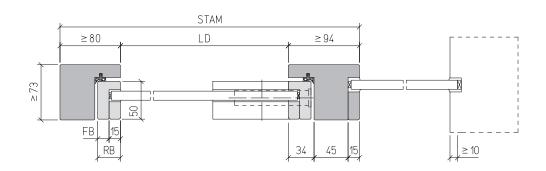
Fixed glazings F 30, Type 25 V-S

Internal areas, as full glass construction

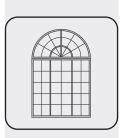
Installation of doors

Configuration example 1-leaf door set









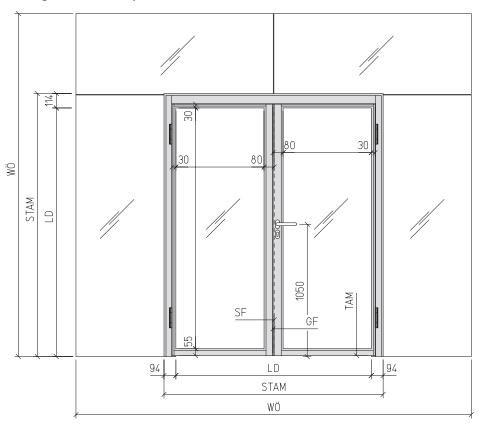
9.3.2

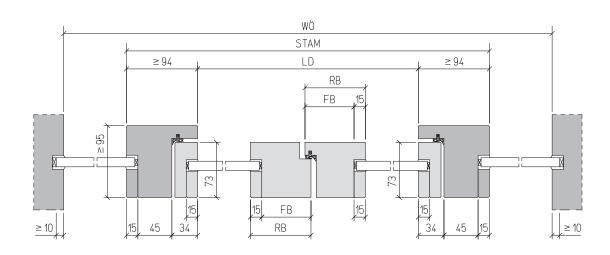
Fixed glazings F 30, Type 25 V-S

Internal areas, as full glass construction

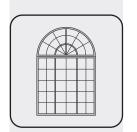
Installation of doors

Configuration example 2-leaf door set









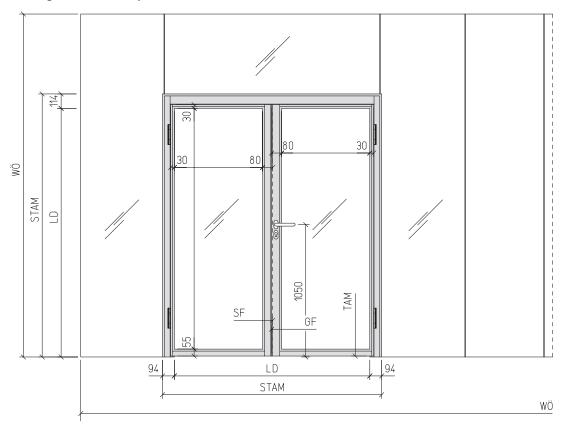
9.3.2

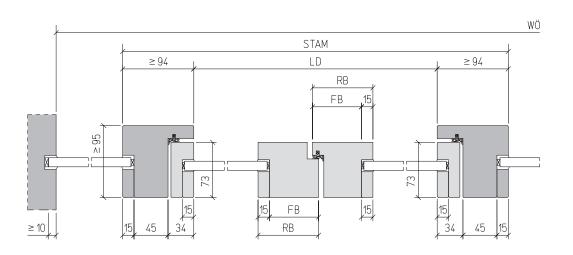
Fixed glazings F 30, Type 25 V-S

Internal areas, as full glass construction

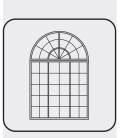
Installation of doors

Configuration example 2-leaf door set









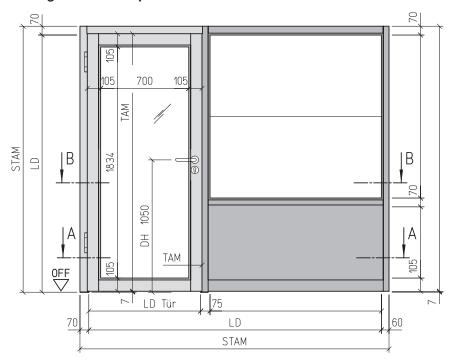
9.3.2

Fixed glazings F 30, Type 25 V-S

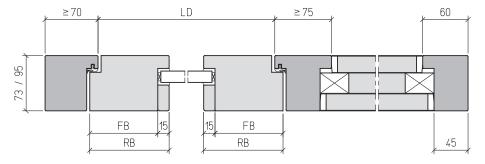
Internal areas, as full glass construction

Installation of doors

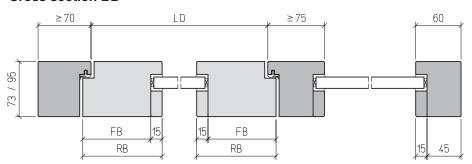
Configuration example 1-leaf door set



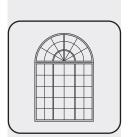
Cross section AA



Cross section BB







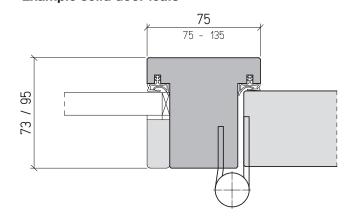
9.3.2

Fixed glazings F 30, Type 25 V-S

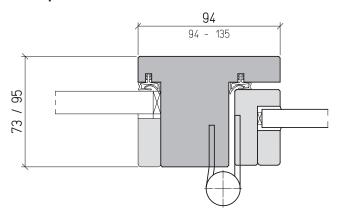
Internal areas, as full glass construction

Installation of doors

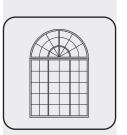
Door connection solid wooden frame/glazing without segmentation Example solid door leafs



Example solid wood framed door







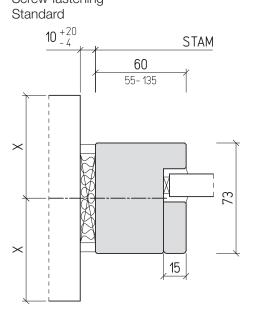
9.3.3

Fixed glazings F 30, Type 25 V and 25 V-S

Internal areas

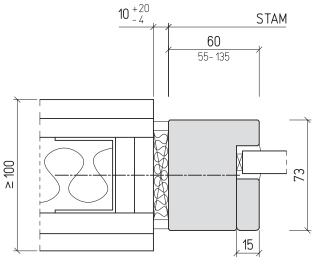
Connection to walls

Concrete, masonry, gasblock concrete Screw fastening



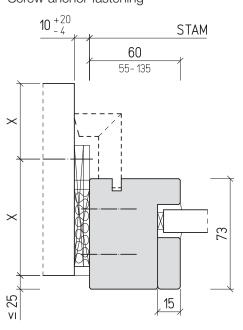
Gypsum plasterboard wall

Screw fastening Standard, standard installation



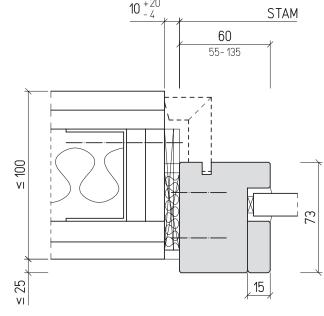
Concrete, masonry, gasblock concrete

Screw anchor fastening



Gypsum plasterboard wall

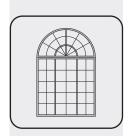
Screw anchor fastening





X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete ≥ 87,5 mm



9.3.3

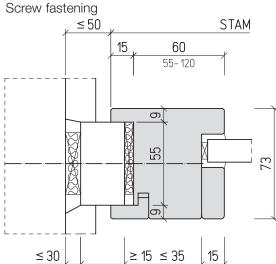
Fixed glazings F 30, Type 25 V and 25 V-S

Internal areas

Connection to walls

Concrete, masonry, gasblock concrete

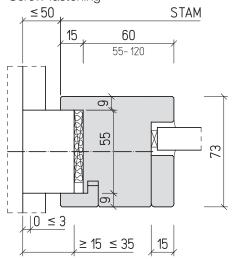
On site constructed quirk

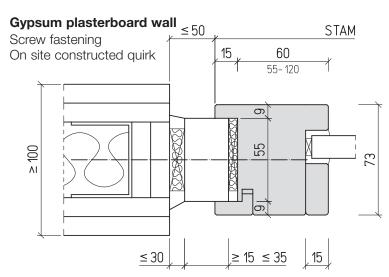


Concrete, masonry, gasblock concrete

On site constructed quirk

Screw fastening



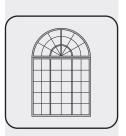


Gypsum plasterboard wall Screw fastening 15 60 On site constructed quirk 55-120 σ > 100 55 0 ≤ 3 15 $\geq 15 \leq 35$



X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete ≥ 87,5 mm



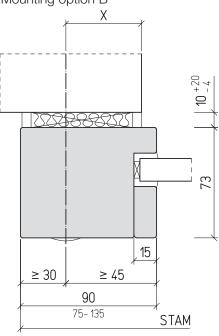
Fixed glazings F 30, Type 25 V and 25 V-S

Internal areas

Connection to walls

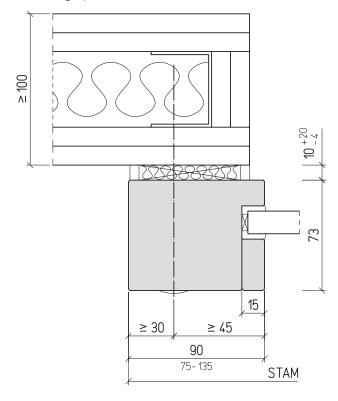
Concrete, masonry, gasblock concrete

Installation in front of the wall opening Mounting option B



Gypsum plasterboard wall

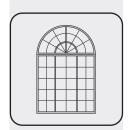
Installation in front of the wall opening Mounting option B





X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete \geq 87,5 mm



9.3.3

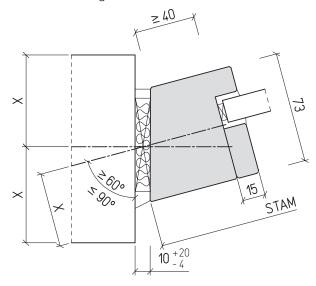
Fixed glazings F 30, Type 25 V and 25 V-S

Internal areas

Connection to walls

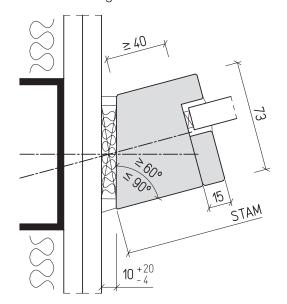
Concrete, masonry, gasblock concrete

Angular connection Screw fastening

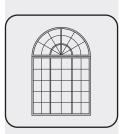


Gypsum plasterboard wall

Angular connection Screw fastening







9.3.3

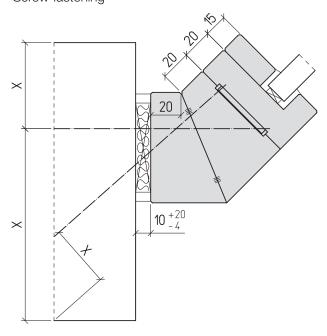
Fixed glazings F 30, Type 25 V and 25 V-S

Internal areas

Connection to walls

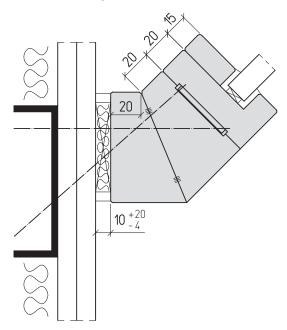
Concrete, masonry, gasblock concrete

Angular connection with corner posts Screw fastening

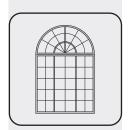


Gypsum plasterboard wall

Angular connection with corner posts Screw fastening







9.3.3

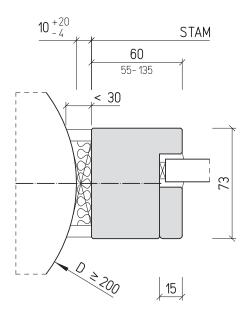
Fixed glazings F 30, Type 25 V and 25 V-S

Internal areas

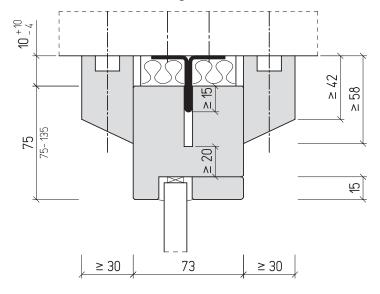
Connection to walls

Concrete, masonry

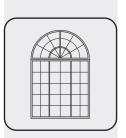
Connection to a round post



Slidable continuous ceiling connection





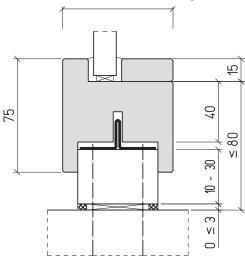


Fixed glazings F 30, Type 25 V and 25 V-S

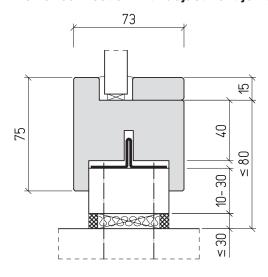
Internal areas

Connection to walls

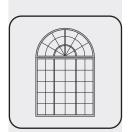
Lower connection without adjustment joint for great socket heights



Lower connection with adjustment joint for great socket heights







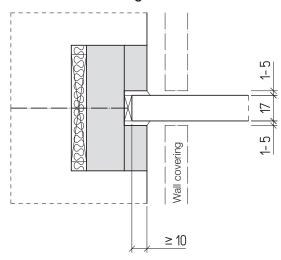
9.3.3

Fixed glazings F 30, Type 25 V and 25 V-S

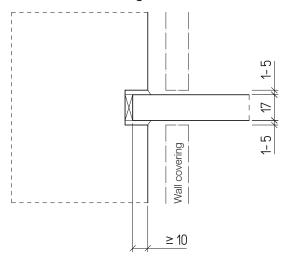
Internal areas

Connection to walls

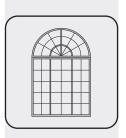
Connection for full glass constructions



Connection for full glass constructions







9.3.3

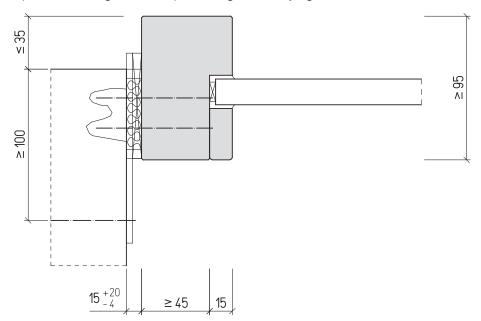
Fixed glazings F 30, Type 25 V and 25 V-S

Internal areas

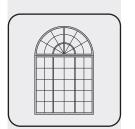
Connection to walls

Concrete, masonry

Special fastening with steel plates, e.g. for safety against a fall







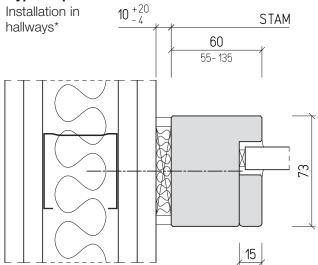
9.3.3

Fixed glazings F 30, Type 25 V

Internal areas

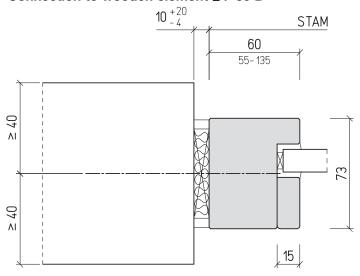
Connection to walls

Gypsum plasterboard wall



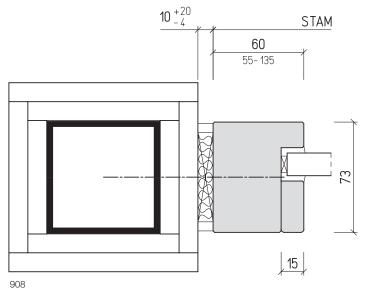
C-Profile, respectively hollow steel profiles, depending on statical requirements

Connection to wooden element ≥ F 30 B*



Cross section dimensions of the support post depend on the statical requirements on site

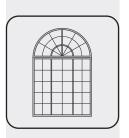
Connection to covered steel element ≥ F 30 A*



Cross section dimensions of the support post depend on the statical requirements on site

* It is possible to completely fill the installation joint with 2 K-PU foam if the joint is 10 ⁺¹⁰₋₄ mm wide.





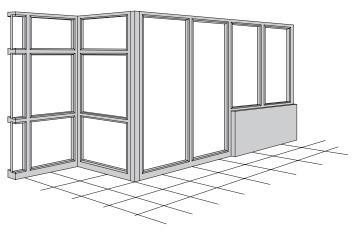
9.3.4

Fixed glazings F 30, Type 25 V

External areas

Examples of use

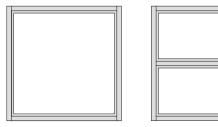
Fixed glazings as transom-mullion-design



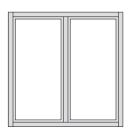
The cross bars can be, depending on the glass size, arranged in any order.

The single glass panes can be arranged either horizontally or vertically.

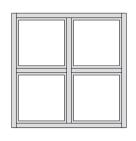
Segmentation examples







Vertical segmentation

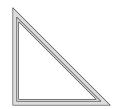


Cross segmentation

Special shapes Examples



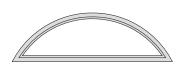




Porthole

Round arch

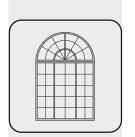
Bevel



Segmental semicircular arch

Basket arch





9.3.4

Fixed glazings F 30, Type 25 V

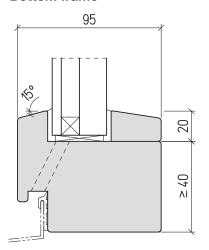
External areas

Construction and cross sections

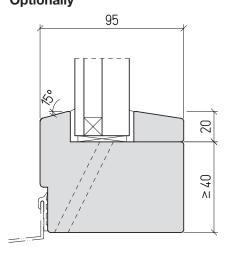
Frame, side/top

60*
60-135
80
80-135
20
20
20
20
20

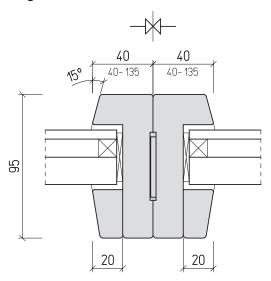
Bottom frame



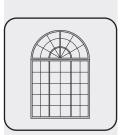
Optionally



Segmentation







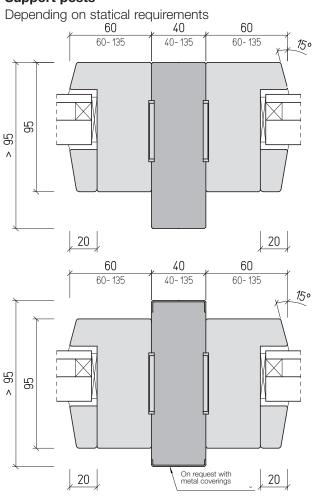
9.3.4

Fixed glazings F 30, Type 25 V

External areas

Construction and cross sections

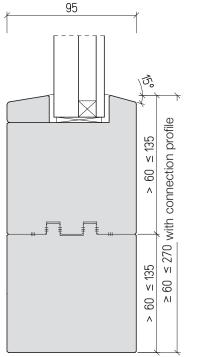
Support posts



Corner posts Angle 90° 60-135 20 20 20 80

Frame enlargings

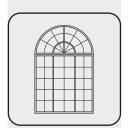
Side, top, bottom Configuration possible with 2-4 friezes





Note:

Glass joint by default on pull side, on request on push side



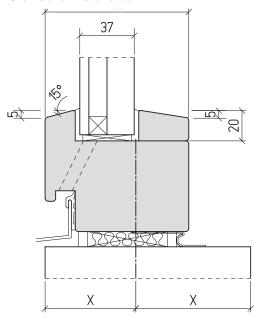
9.3.4

Fixed glazings F 30, Type 25 V

External areas

Glazing details

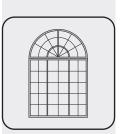
Standard installation



Glazing beads are by default delivered as solid wooden beads, without veener covering.



9.3.4



Glazings

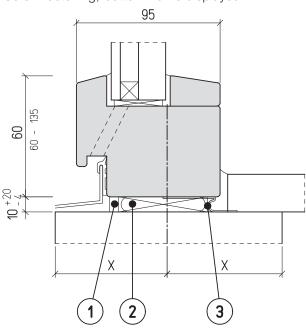
Fixed glazings F 30, Type 25 V

External areas

Connection to walls

Concrete, masonry

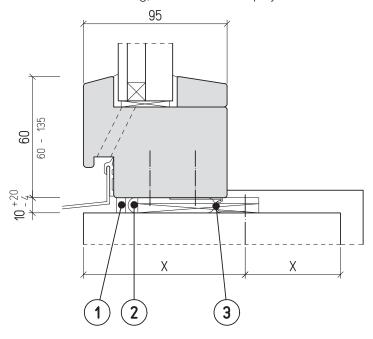
Screw fastening, bottom frame displayed



Installation meets the installation guidelines of DIN 4108-7 as well as the ones of the RAL-quality control association

Concrete, masonry

Screw anchor fastening, bottom frame displayed

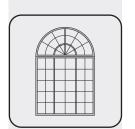


- 1 Joint sealing tape, driving rain tight and water vapor permeable
- 2 PU-foam, heat-insulating
- (3) Window foil, air and vapor tight

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete \geq 87,5 mm



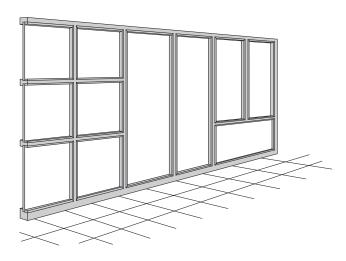


9.4.1

Fixed glazings G 30, Type 25 V

Internal areas with solid wooden frame

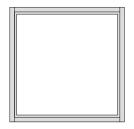
Examples of use

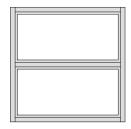


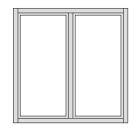
The cross bars can be, depending on the glass size, arranged in any order.

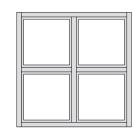
The single glass panes can be arranged either horizontally or vertically.

Segmentation examples









without segmentation Horizontal segmentation Vertical segmentation

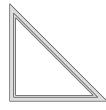
Cross segmentation

Special shapes

Examples



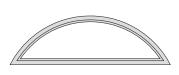


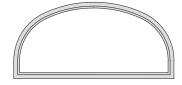


Porthole

Round arch

Bevel

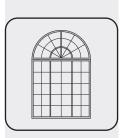




Segmental semicircular arch

Basket arch



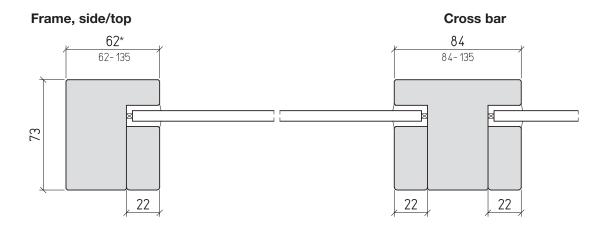


9.4.1

Fixed glazings G 30, Type 25 V

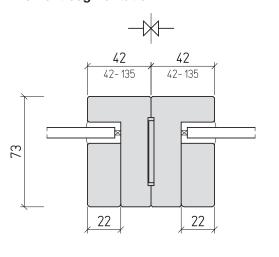
Internal areas with solid wooden frame

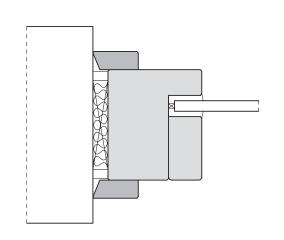
Construction and cross sections



Element segmentation

Wall connection bead

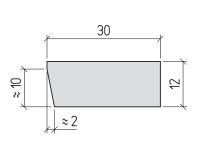


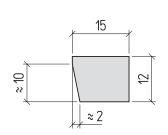


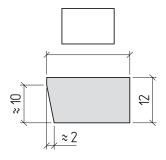
Wall connection bead Type / profile 3, 30/12

Wall connection bead Type / profile 4, 15/12

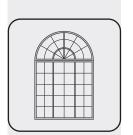
Wall connection bead Width / 12, state width











9.4.1

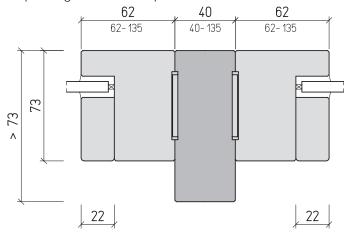
Fixed glazings G 30, Type 25 V

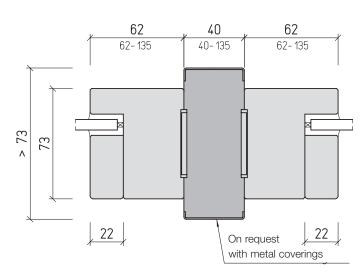
Internal areas with solid wooden frame

Construction and cross sections

Support posts

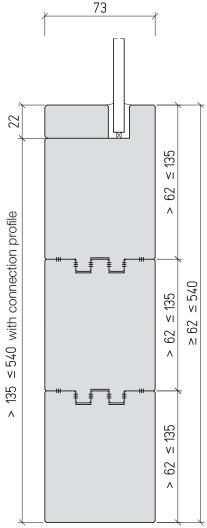
Depending on statical requirements





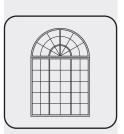
Frame enlargings

Side, top, bottom Configuration possible with 2-4 friezes





Schörghuber



9.4.1

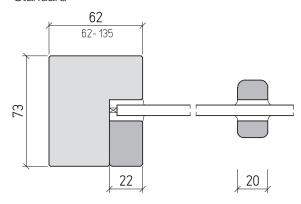
Fixed glazings G 30, Type 25 V

Internal areas with solid wooden frame

Construction and cross sections

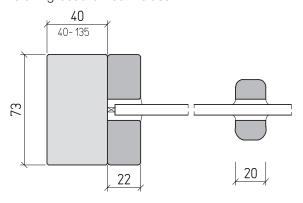
Glazing bead and decorative cross bar

Standard



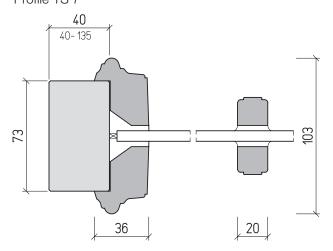
Glazing bead and decorative cross bar

Glazing bead on both sides

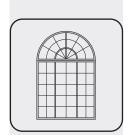


Glazing bead and decorative cross bar

Profile TS 7







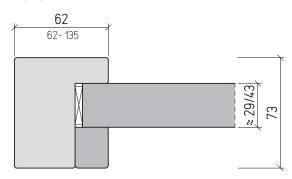
9.4.1

Fixed glazings G 30, Type 25 V

Internal areas with solid wooden frame

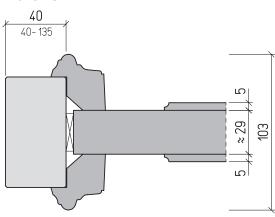
Panel installation, options

Panel

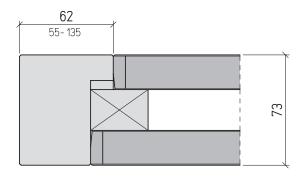


Coffer

Profile TS 7

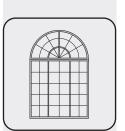


Panel version II





9.4.1



Glazings

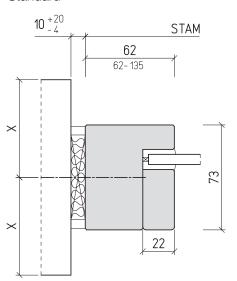
Fixed glazings G 30, Type 25 V

Internal areas with solid wooden frame

Connection to walls

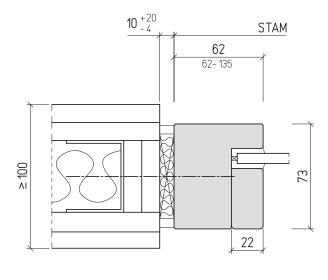
Concrete, masonry, gasblock concrete

Screw fastening Standard



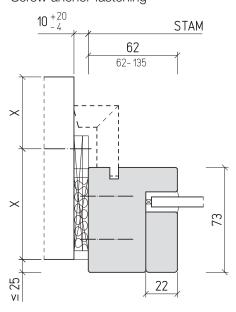
Gypsum plasterboard wall

Screw fastening Standard



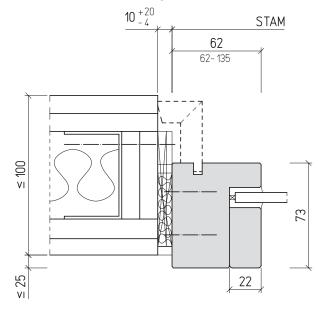
Concrete, masonry, gasblock concrete

Screw anchor fastening



Gypsum plasterboard wall

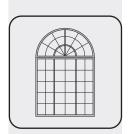
Screw anchor fastening





X-Measure

Concrete, masonry ≥ 50.0 mm Gasblock concrete ≥ 87.5 mm



9.4.1

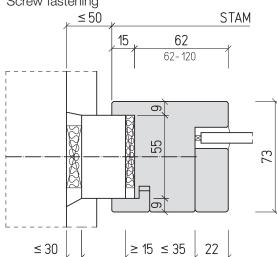
Fixed glazings G 30, Type 25 V

Internal areas with solid wooden frame

Connection to walls

Concrete, masonry, gasblock concrete

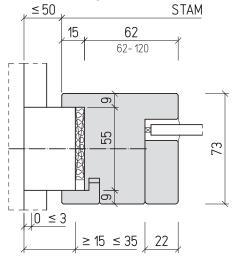
On site constructed quirk Screw fastening

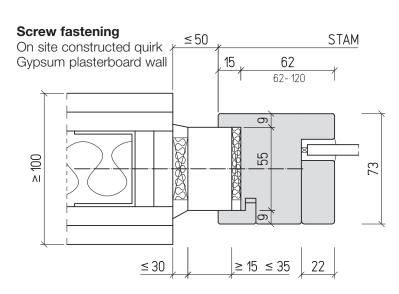


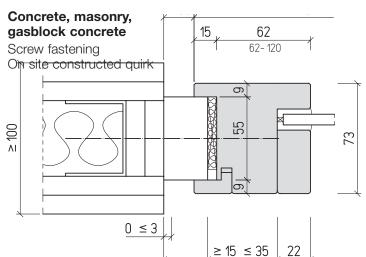
Concrete, masonry, gasblock concrete

On site constructed quirk

Screw fastening









X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete \geq 87,5 mm

9.4.1

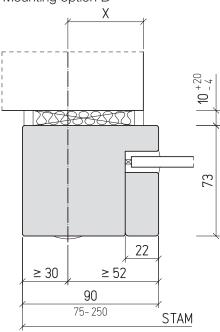
Fixed glazings G 30, Type 25 V

Internal areas with solid wooden frame

Connection to walls

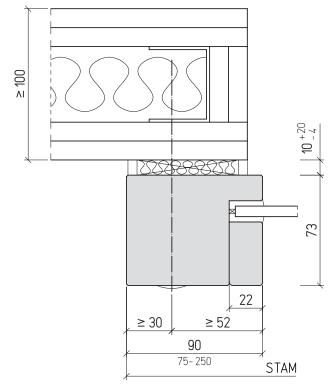
Concrete, masonry, gasblock concrete

Installation in front of the wall opening Mounting option B



Gypsum plasterboard wall

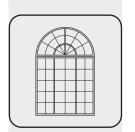
Installation in front of the wall opening Mounting option B





X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete \geq 87,5 mm



9.4.1

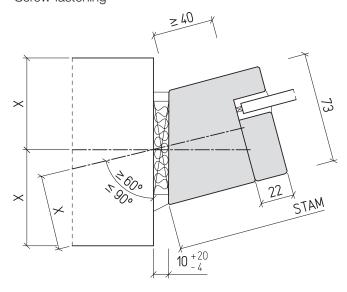
Fixed glazings G 30, Type 25 V

Internal areas with solid wooden frame

Connection to walls

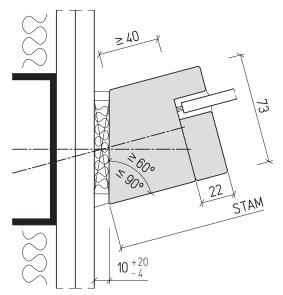
Concrete, masonry, gasblock concrete

Angular connection Screw fastening

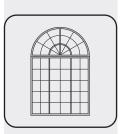


Gypsum plasterboard wall

Angular connection Screw fastening







9.4.1

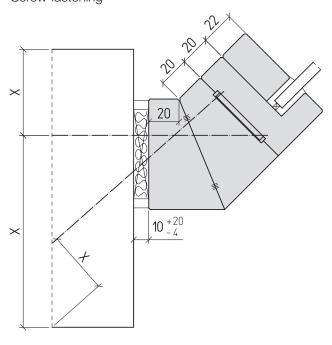
Fixed glazings G 30, Type 25 V

Internal areas with solid wooden frame

Connection to walls

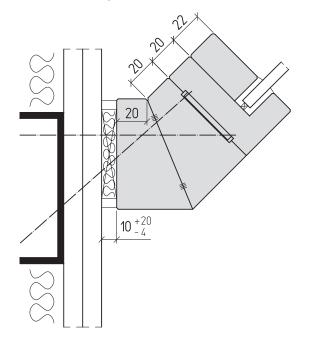
Concrete, masonry, gasblock concrete

Angular connection with corner posts Screw fastening

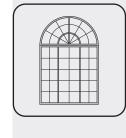


Gypsum plasterboard wall

Angular connection with corner posts Screw fastening







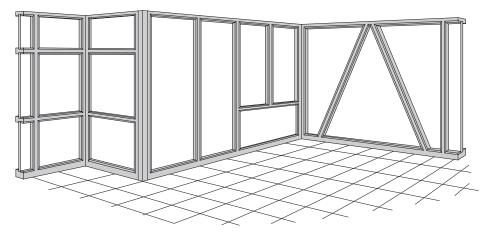
9.5.1

Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

Examples of use

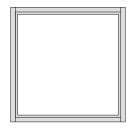
Fixed glazings as transom-mullion-design

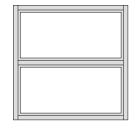


The cross bars can be, depending on the glass size, arranged in any order.

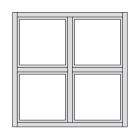
The single glass panes can be arranged either horizontally or vertically.

Segmentation examples









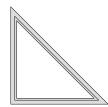
without segmentation Horizontal segmentation Vertical segmentation

Cross segmentation

Special shapes Examples



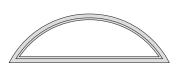


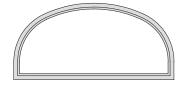


Porthole

Round arch

Bevel

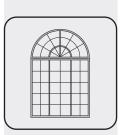




Segmental semicircular arch

Basket arch

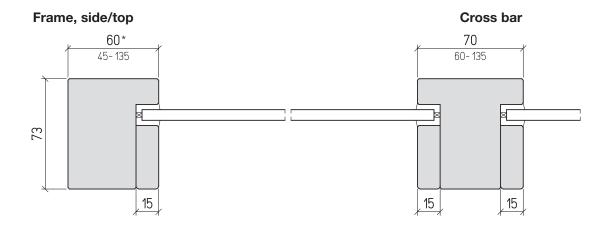




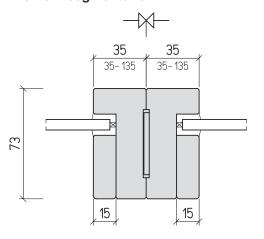
Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

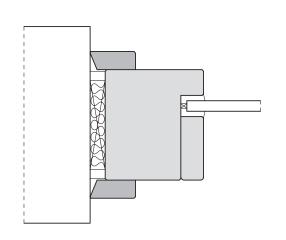
Construction and cross sections



Element segmentation



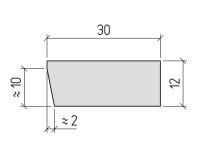
Wall connection bead

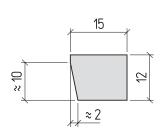


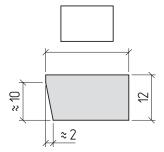
Wall connection bead Type / profile 3, 30/12

Wall connection bead Type / profile 4, 15/12

Wall connection bead Width / 12, state width







* The frame width is by default 60 mm, regarding statical requirements the frieze widths may increase.



Note:

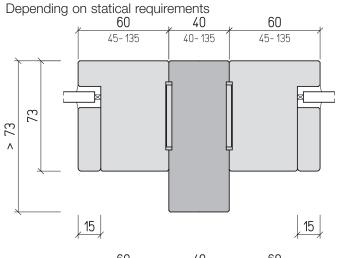
For combinations with a door set, the glass joint by default on pull side, on request on push side

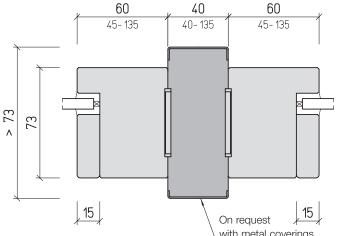
Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

Construction and cross sections

Support posts



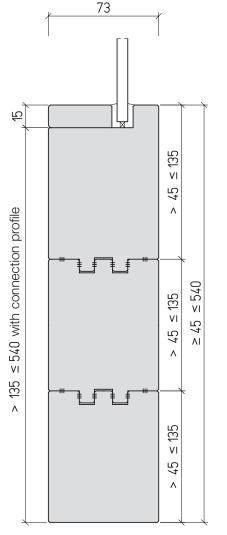


Corner posts Angle 90° 45-135 E With metal coverings 73 45-135

Frame enlargings

Side, top, bottom Configuration possible with 2-4 friezes

9.5.1

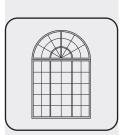




Note:

Glass joint by default on pull side, on request on push side

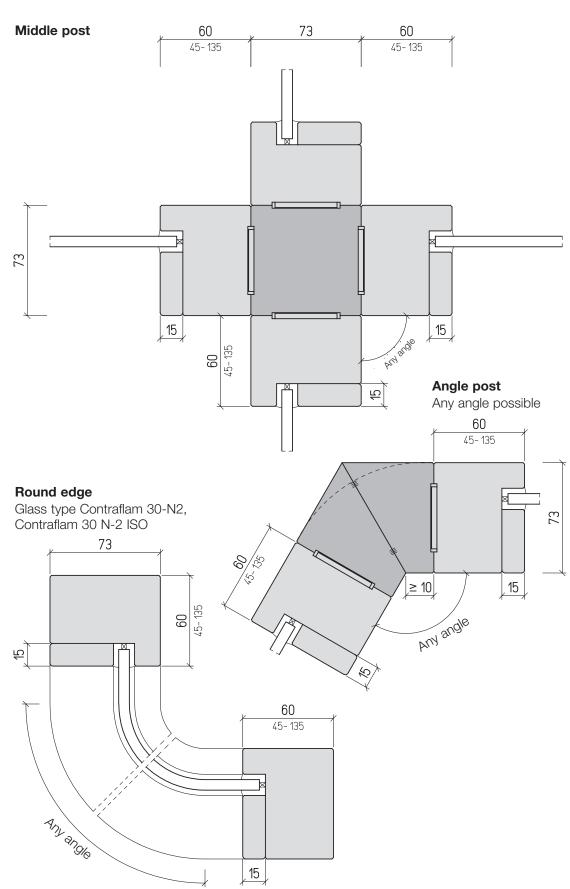
926



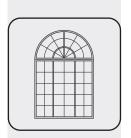
Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

Construction and cross sections





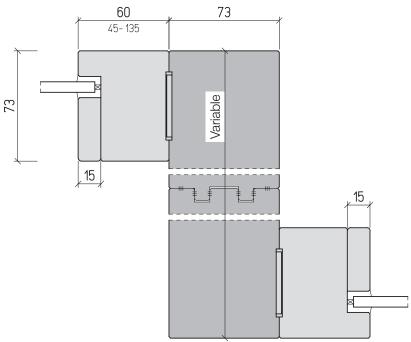


Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

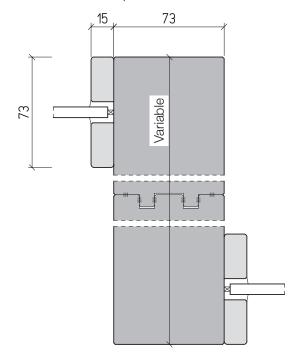
Construction and cross sections

Level-offset

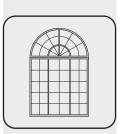


Level-offset

without additional posts







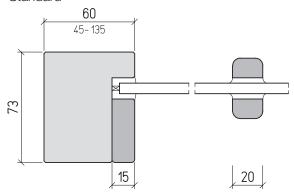
Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

Construction and cross sections

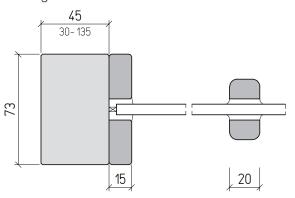
Glazing bead and decorative cross bar

Standard



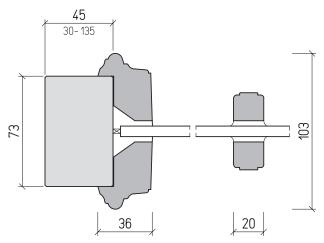
Glazing bead and decorative cross bar

Glazing bead on both sides



Glazing bead and decorative cross bar

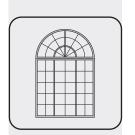
Profile TS 7





Note:

Glazing beads are by default delivered veenered, matching the configuration of the door veneer.



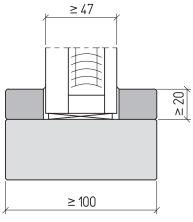
9.5.1

Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

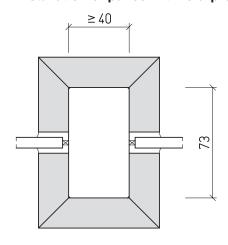
Glazing options

Installation of panes and blinds

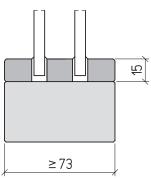


▲ Wet Room glazing

Installation of panes with fold-profiles

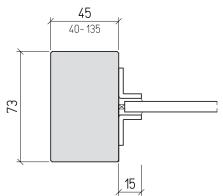


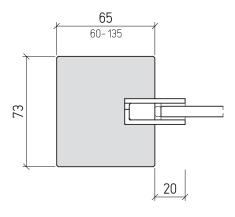
Installation of additional panes



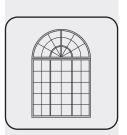
Installation of panes with metal brackets

(e.g. aluminium, stainless steel, brass)







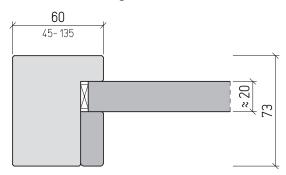


Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

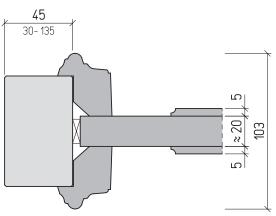
Glazing options

Panel instead of glass

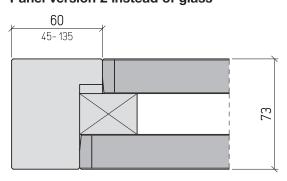


Coffer instead of glass

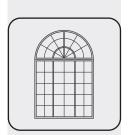
Profile TS 7



Panel version 2 instead of glass







9.5.1

Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

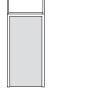
Installation of doors

Standard segmentation

Glazing Type 25 V in combination with 1- and 2-leaf doors Type 3 N/4 N, 13 N/14 N, 5 N/6 N, 16 N/26 N, 25 N/27 N and 10 N/20 N

Segmentation 1

with top panel





Segmentation 2

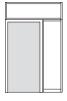
with side panel





Segmentation 3

with continuous top panel width ≤ 3000 mm and side panel

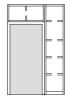




Segmentation 4

with top panel and continuous side panel





Segmentation 5

with side panel an hinge and lock edge

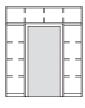




Segmentation 6

with continuous top panel width ≤ 3000 mm and side panel an hinge and lock edge





Segmentation 7

with top panel and continuous side panel on hinge and lock edge



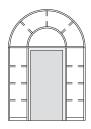


On request with cross bars



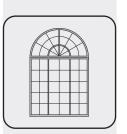
Segmentation 8

Configuration according to drawing (for continuous top panel width ≤ 3000 mm)



Note:

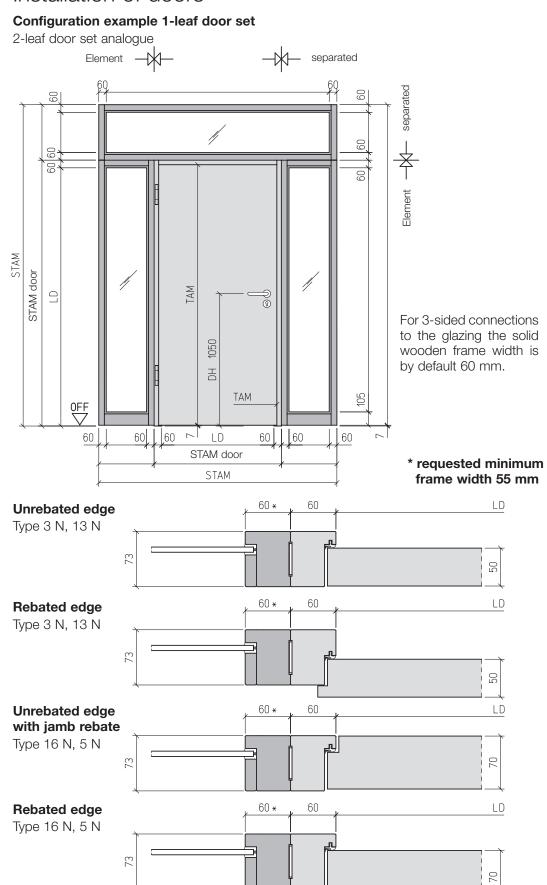
Take maximum glazing dimensions into account.



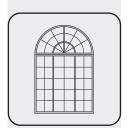
Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

Installation of doors







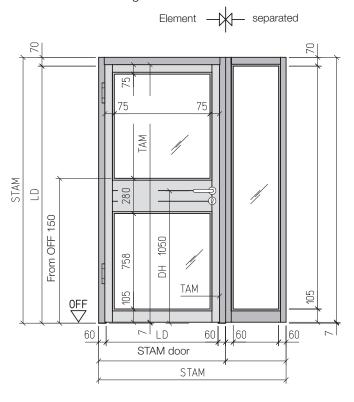
Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

Installation of doors

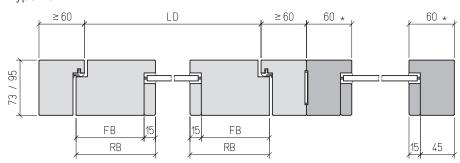
Configuration example 1-leaf door set

2-leaf door set analogue



Unrebated edge with jamb rebate

Type 25 N



Configuration without middle frieze

Frame width side, top and bottom 105 mm

* requested minimum frame width 55 mm

FB = frieze width RB = frame width

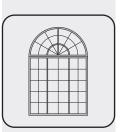


Special frieze

Door leaf height > 2972 mm
Frame width circumferential 135 mm
Poor roboto dimension > 1080 mm, by

Door rebate dimension ≥ 1080 mm, by default with bottom frame width 195 mm For SD and MT all frieze widths are possible in regard of the statical requirements

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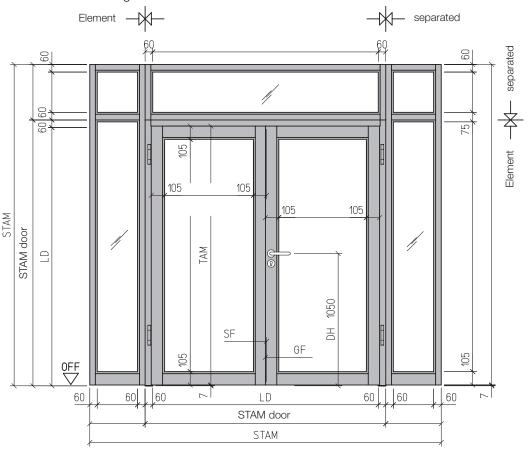
Fixed glazings RS/SD/MV, Type 25 V

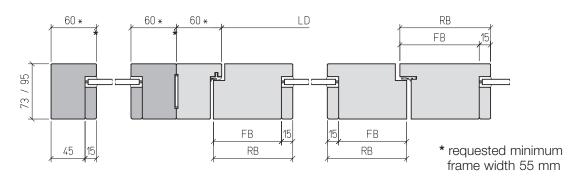
Internal areas with solid wooden frame

Installation of doors

Configuration example 2-leaf door set

1-leaf door set analogue





FB = frieze width RB = frame width

Configuration with middle frieze ≥ 280 mm frame width

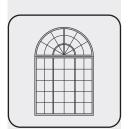
Frame width side and top 75 mm, bottom 105 mm

Special frieze

Door leaf height > 2972 mm Frame width circumferential 135 mm

Door rebate dimension ≥ 1080 mm, by default with bottom frame width 195 mm For SD and MT all frieze widths are possible in regard of the statical requirements



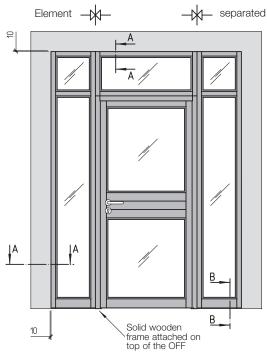


9.5.1

Fixed glazings RS/SD/MV, Type 25 V

Internal areas with solid wooden frame

Installation of doors



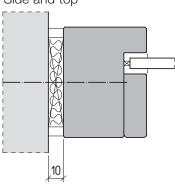


Note:

The single frames have to be assembled according to the installation manual. Panes and glazing beads of glazings are enclosed in

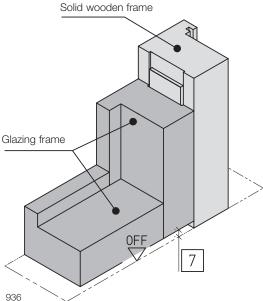
Wall connection (cross section A - A)

Side and top

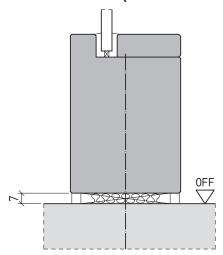


Combination with solid wooden frame

in glazing Type 25 V

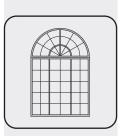


Floor connection (cross section B - B)



During the installation of solid wooden frames a length overhang of the frame in respect to the glazing units has to be taken into account. 7mm if hinges are used and 52 mm if a floor-mounted door closer is used.



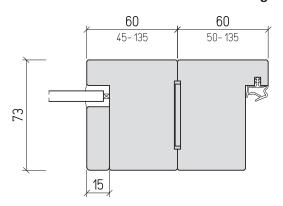


Fixed glazings RS/SD/MV, Type 25 V

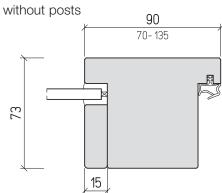
Internal areas with solid wooden frame

Installation of doors

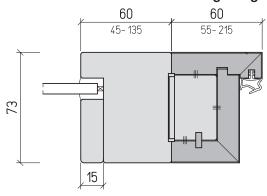
Door connection solid wooden frame / glazing



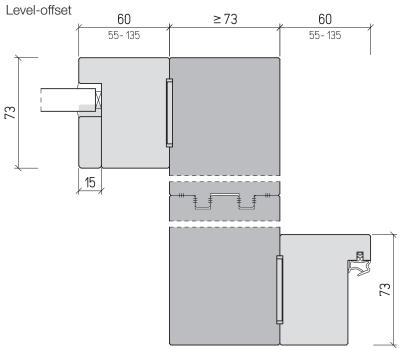
Door connection solid wooden frame / glazing



Door connection folded frame / glazing



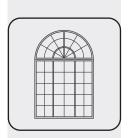
Door connection solid wooden frame / glazing





Note:

Glass joint by default on pull side, on request on push side



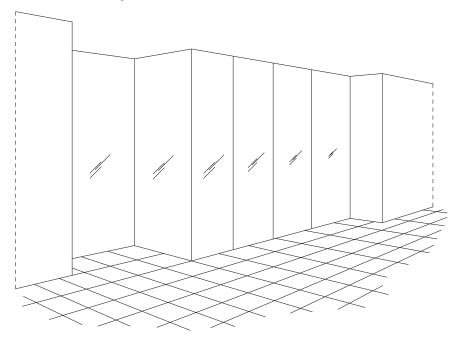
9.5.2

Fixed glazings RS/SD/MV, Type 25 V-S

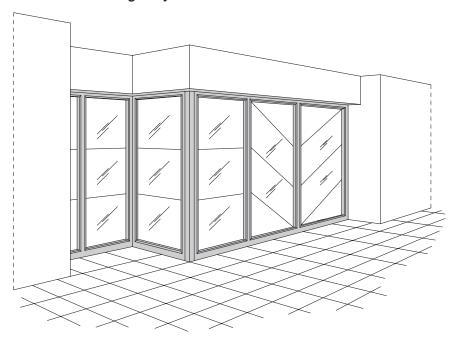
Internal areas, as full glass construction

Examples of use

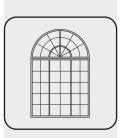
Vertical silicone joints



Horizontal and angular joints



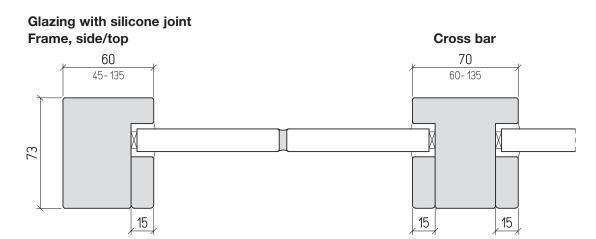




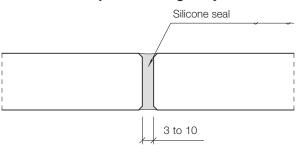
Fixed glazings RS/SD/MV, Type 25 V-S

Internal areas, as full glass construction

Construction and cross sections

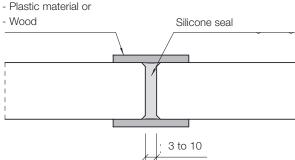


Detailed description of the glass joints



The coverings are available in

- Stainless steel,
- Aluminium,
- Diantia mantarial an



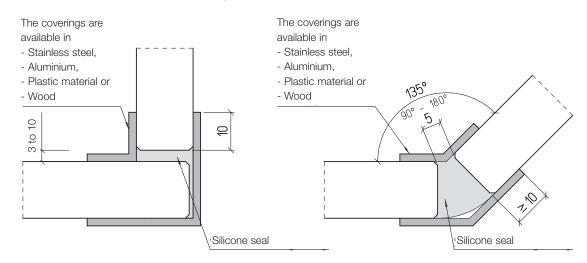


9.5.2

Fixed glazings RS/SD/MV, Type 25 V-S

Internal areas, as full glass construction

Construction of the glass joints

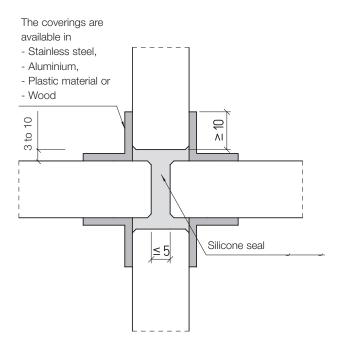


The coverings are available in
- Stainless steel,
- Aluminium,
- Plastic material or
- Wood

OF
OF
OF
All

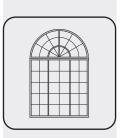
All

Silicone seal









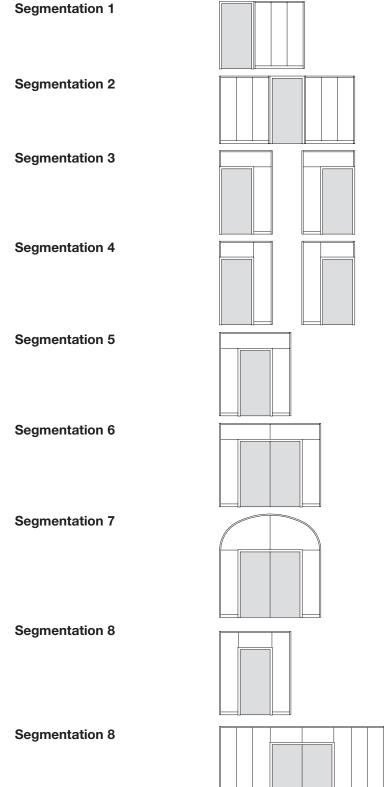
Fixed glazings RS/SD/MV, Type 25 V-S

Internal areas, as full glass construction

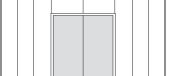
Installation of doors

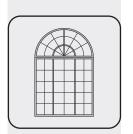
Standard segmetation

Glazing Type 25 V in combination with 1- and 2-leaf doors Type 3 N/4 N, 13 N/14 N, 5 N/6 N, 16 N/26 N, 25 N/27 N and 10 N/20 N









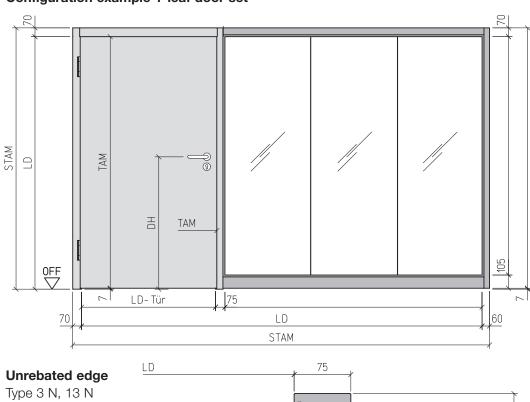
9.5.2

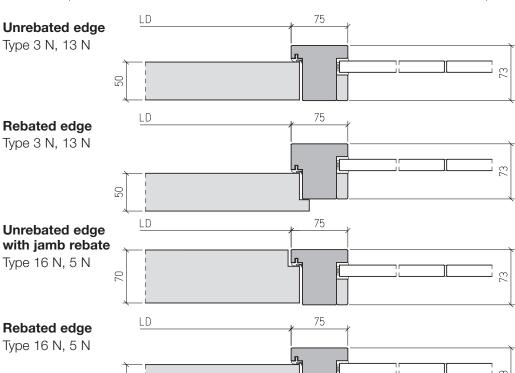
Fixed glazings RS/SD/MV, Type 25 V-S

Internal areas, as full glass construction

Installation of doors

Configuration example 1-leaf door set

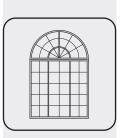






70

9.5.2



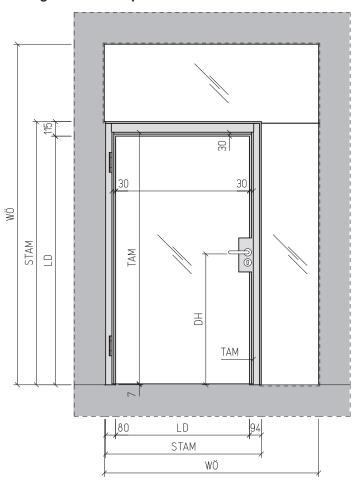
Glazings

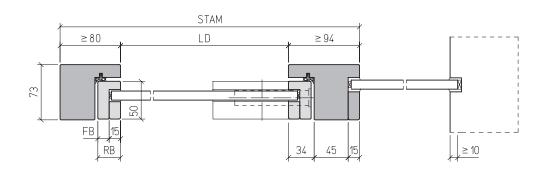
Fixed glazings RS/SD/MV, Type 25 V-S

Internal areas, as full glass construction

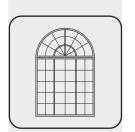
Installation of doors

Configuration example 1-leaf door set









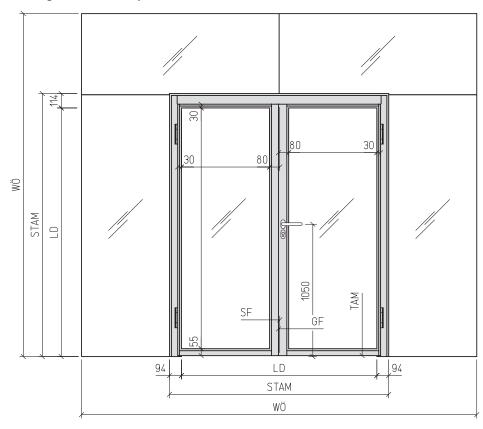
9.5.2

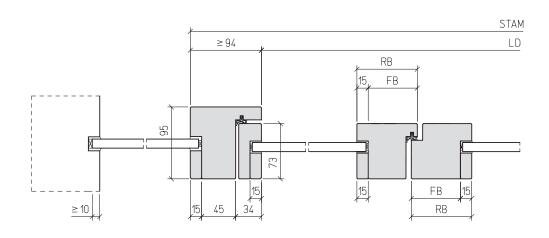
Fixed glazings RS/SD/MV, Type 25 V-S

Internal areas, as full glass construction

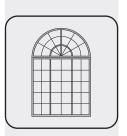
Installation of doors

Configuration example 2-leaf door set







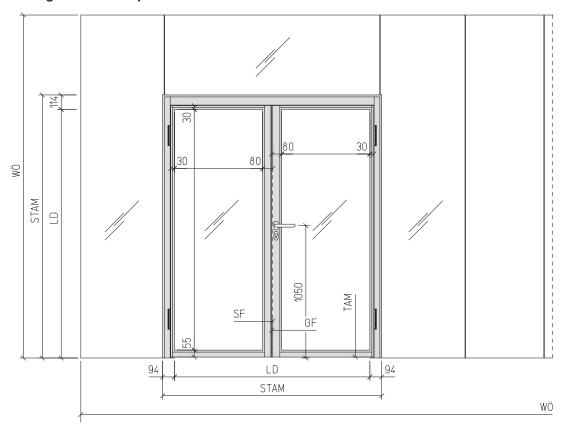


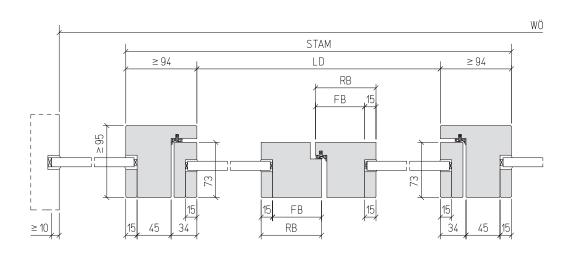
Fixed glazings RS/SD/MV, Type 25 V-S

Internal areas, as full glass construction

Installation of doors

Configuration example 2-leaf door set







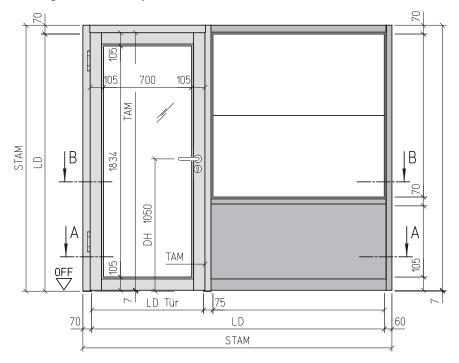
9.5.2

Fixed glazings RS/SD/MV, Type 25 V-S

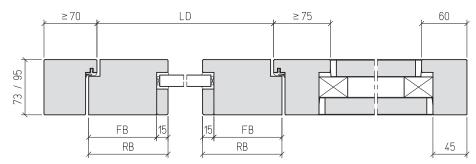
Internal areas, as full glass construction

Installation of doors

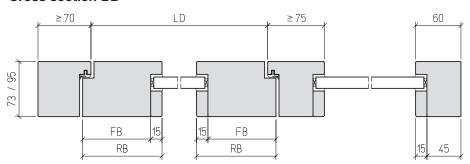
Configuration example 1-leaf door set



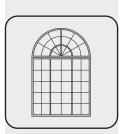
Cross section AA



Cross section BB







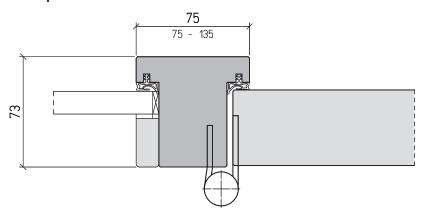
Fixed glazings RS/SD/MV, Type 25 V

Internal areas, as full glass construction

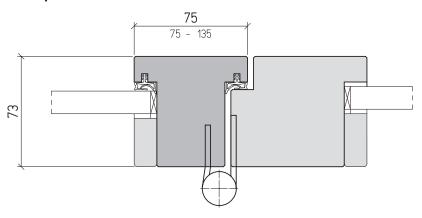
Installation of doors

Door connection solid wooden frame/glazing without segmentation

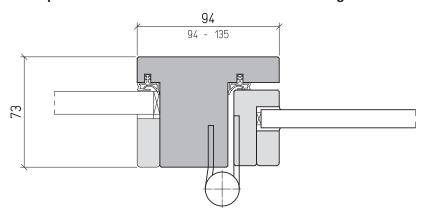
Example solid door leafs



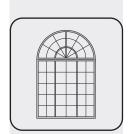
Example solid wood framed doors



Example solid wood framed door in Slimeline configuration







9.5.3

STAM

STAM

60

45-135

Fixed glazings RS/SD/MV, Type 25 V

Internal areas

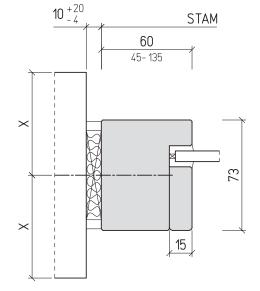
Connection to walls

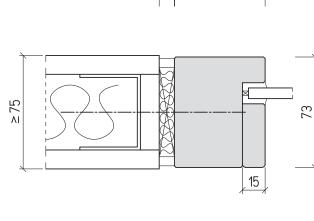
Concrete, masonry, gasblock concrete Gypsum plasterboard wall

Screw fastening Standard

Screw fastening Standard, standard installation

10 + 20

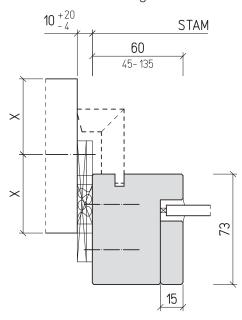


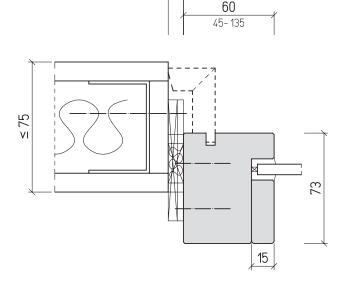


Concrete, masonry, gasblock concrete Gypsum plasterboard wall

Screw anchor fastening

Screw anchor fastening

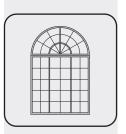






X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete ≥ 87,5 mm



9.5.3

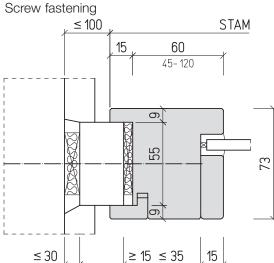
Fixed glazings RS/SD/MV, Type 25 V

Internal areas

Connection to walls

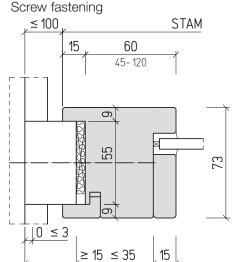
Concrete, masonry, gasblock concrete

On site constructed quirk



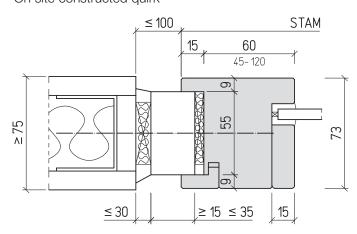
Concrete, masonry, gasblock concrete

On site constructed quirk



Gypsum plasterboard wall

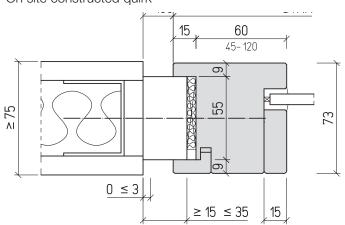
Screw fastening
On site constructed quirk



Gypsum plasterboard wall

Screw fastening

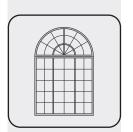
On site constructed quirk



X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete \geq 87,5 mm





9.5.3

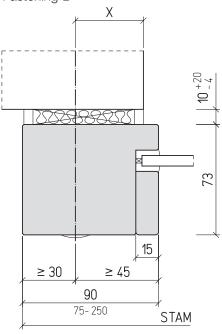
Fixed glazings RS/SD/MV, Type 25 V and 25 V-S

Internal areas

Connection to walls

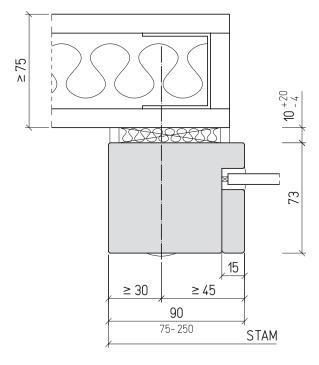
Concrete, masonry, gasblock concrete

Installation in front of the wall opening Fastening B



Gypsum plasterboard wall

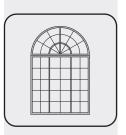
Installation in front of the wall opening Fastening B





X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete \geq 87,5 mm



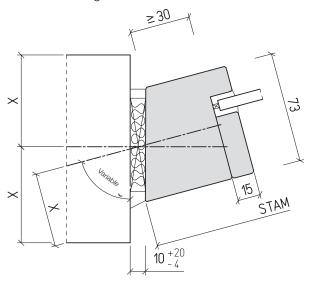
Fixed glazings RS/SD/MV, Type 25 V and 25 V-S

Internal areas

Connection to walls

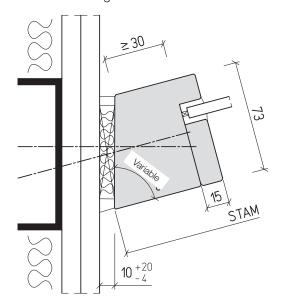
Concrete, masonry, gasblock concrete

Angular connection Screw fastening



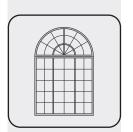
Gypsum plasterboard wall

Angular connection Screw fastening





X-Measure



9.5.3

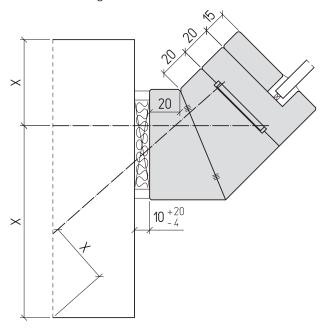
Fixed glazings RS/SD/MV, Type 25 V and 25 V-S

Internal areas

Connection to walls

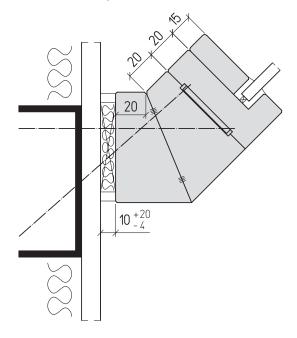
Concrete, masonry, gasblock concrete

Angular connection with corner posts Screw fastening



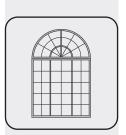
Gypsum plasterboard wall

Angular connection with corner posts Screw fastening





9.5.3



Glazings

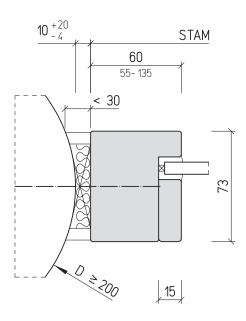
Fixed glazings RS/SD/MV, Type 25 V and 25 V-S

Internal areas

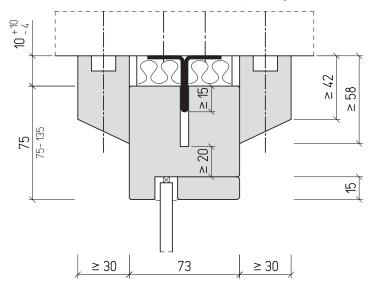
Connection to walls

Concrete, masonry

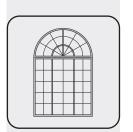
Connection to a round post



Slidable continuous wall connection, example







9.5.3

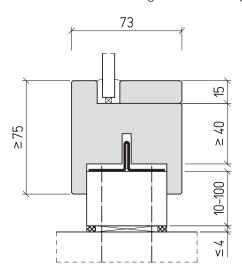
Fixed glazings RS/SD/MV, Type 25 V and 25 V-S

Internal areas

Connection to walls

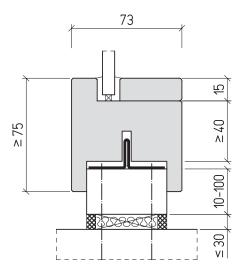
Concrete, masonry, gasblock concrete, gypsum plasterboard wall

Bottom connection for great socket height without leveling joint

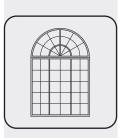


Concrete, masonry, gasblock concrete, gypsum plasterboard wall

Bottom connection for great socket height without leveling joint







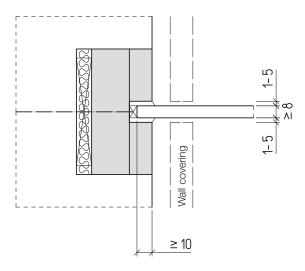
Fixed glazings RS/SD/MV, Type 25 V and 25 V-S

Internal areas

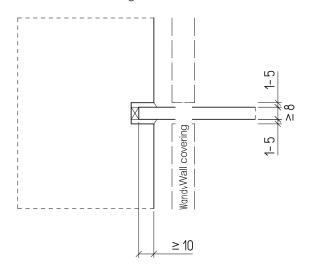
Connection to walls

Concrete, masonry, gasblock concrete, gypsum plasterboard wall

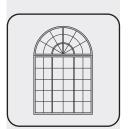
Connection for full glass constructions



Concrete, masonry, gasblock concrete, gypsum plasterboard wall Connection for full glass constructions







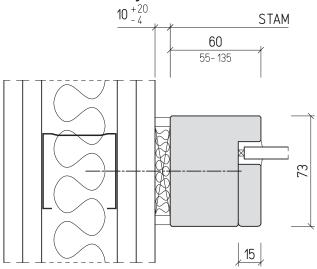
9.5.3

Fixed glazings RS/SD/MV, Type 25 V and 25 V-S

Internal areas

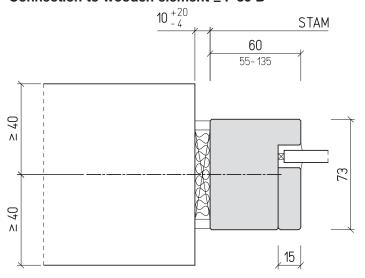
Connection to walls

Installation in hallways



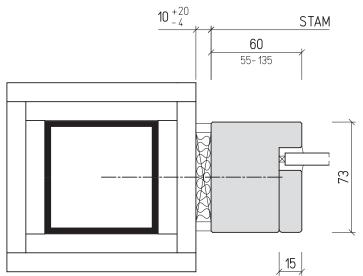
C-profile, respectively hollow steel profile, depending on statical requirements

Connection to wooden element ≥ F 30 B



Post dimensions depending on the statical requirements on site

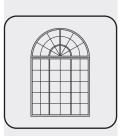
Connection to covered steel element ≥ F 30 A bei RS



Post dimensions depending on the statical requirements on site



956



9.5.4

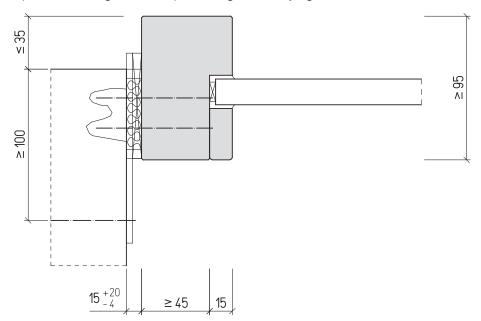
Fixed glazings RS/SD/MV, Type 25 V and 25 V-S

Internal areas

Connection to walls

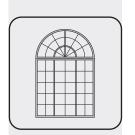
Concrete, masonry

Special fastening with steel plates, e.g. for safety against a fall







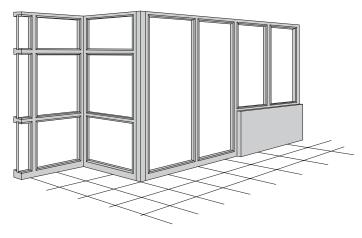


Fixed glazings RS/SD/MV, Type 25 V

External areas

Examples of use

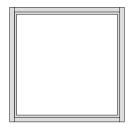
Fixed glazings as transom-mullion-design

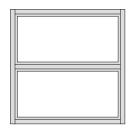


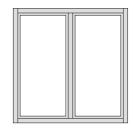
The cross bars can be, depending on the glass size, arranged in any order.

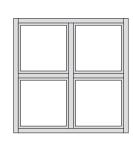
The single glass panes can be arranged either horizontally or vertically.

Segmentation examples









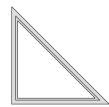
without segmentation Horizontal segmentation Vertical segmentation

Cross segmentation

Special shapes Examples



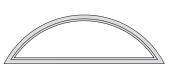


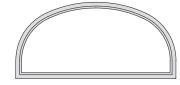


Porthole

Round arch

Bevel



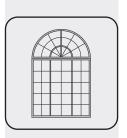


Segmental semicircular arch

Basket arch



9.5.4

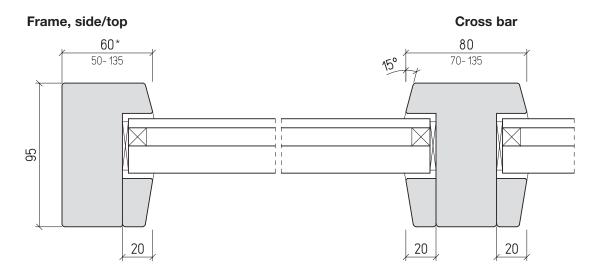


Glazings

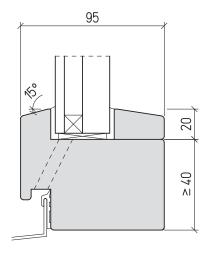
Fixed glazings RS/SD/MV, Type 25 V

External areas

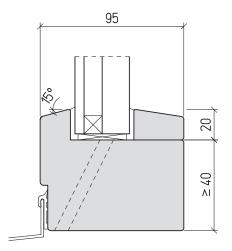
Construction and cross sections



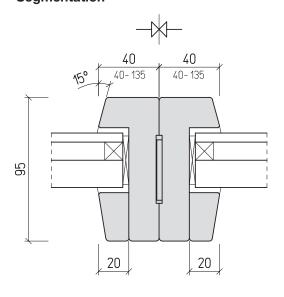
Bottom frame



Optionally



Segmentation





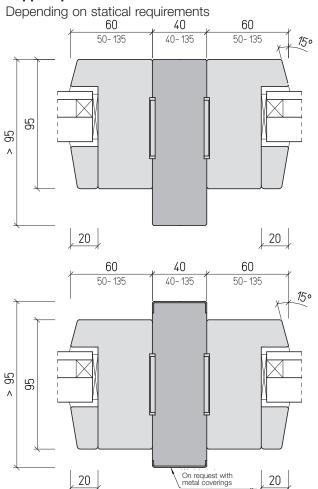
9.5.4

Fixed glazings RS/SD/MV, Type 25 V

External areas

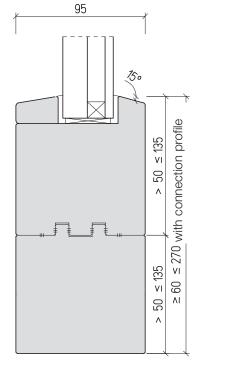
Construction and cross sections

Support posts



Frame enlargings

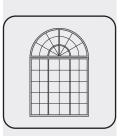
Side, top, bottom Configuration possible with 2-4 friezes





Note:

Glass joint by default on pull side, on request on push side



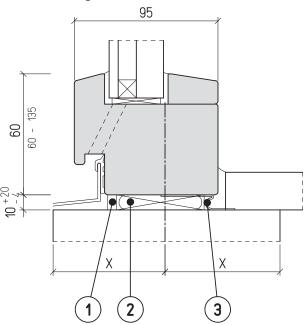
Fixed glazings RS/SD/MV, Type 25 V

External areas

Connection to walls

Concrete, masonry, gasblock concrete

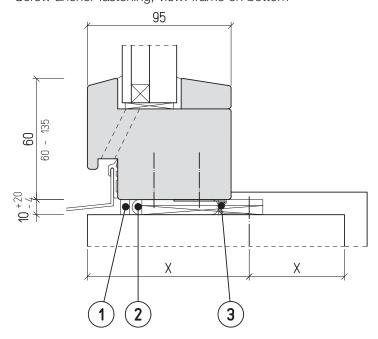
Screw fastening, view: frame on bottom



Installation meets the installation guidelines of DIN 4108-7 as well as the ones of the RAL-quality control association

Concrete, masonry, gasblock concrete

Screw anchor fastening, view: frame on bottom

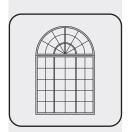


- 1 Joint sealing tape, driving rain tight and water vapor permeable
- 2 PU-foam, heat-insulating
- (3) Window foil, air and vapor tight

X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete \geq 87,5 mm



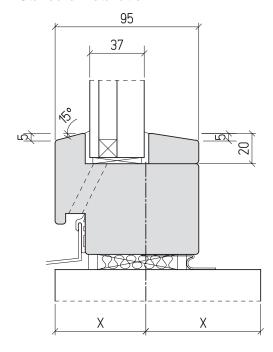


Fixed glazings RS/SD/MV, Type 25 V

External areas

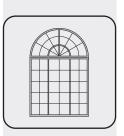
Connection to walls

Standard installation



Glazing beads are by default solid wood cross beads without veneer covering.





9.5.4

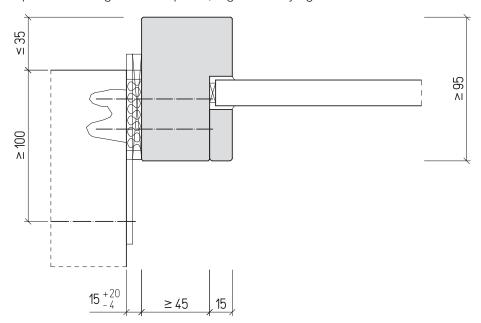
Fixed glazings RS/SD/MV, Type 25 V and 25 V-S

External areas

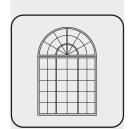
Connection to walls

Concrete, masonry

Special fastening with steel plates, e.g. for safety against a fall



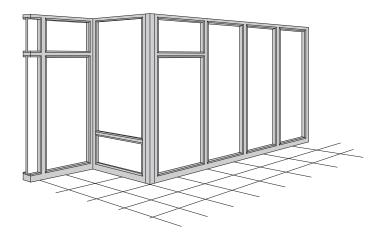




Fixed glazings F 90, Type 90 V

Internal areas with solid wooden frame

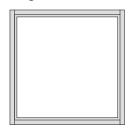
Examples of use

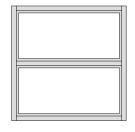


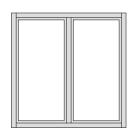
The cross bars can be, depending on the glass size, arranged in any order.

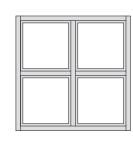
The single glass panes can be arranged either horizontally or vertically. Galss panes, panels, glazing beads and accessories are included in bulk.

Segmentation examples









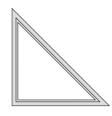
without segmentation Horizontal segmentation Vertical segmentation

Cross segmentation

Special shapes Examples



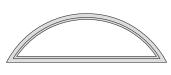


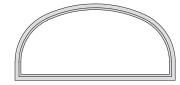


Porthole

Round arch

Bevel



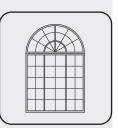


Segmental semicircular arch

Basket arch



9.6.1



Glazings

Fixed glazings F 90, Type 90 V

Dimensions and glass types

		Dimensions
Walls / glass types		F 90 Fixed glazings Type 90 V
Masonry ¹⁾ ≥ 115 mm	BR-width	unlimited
	BR-height 3)	5000 mm
Concrete ≥ 100 mm	BR-width	unlimited
	BR-height 3)	5000 mm
Gasblock concrete ≥ 175 mm	BR-width	unlimited
	BR-height 3)	5000 mm
Upper and lower connection to leightweight wall ≥ F90 ≥125 mm	BR-width	4000 mm
	BR-height 3)	4500 mm
Perimeter frame		≥40 ≤120/110 mm
Cross bars		≥40 ≤120/110 mm
Middle frieze		≥120 ≤400/110 mm
Pyrostop 90-102, clear glass, 37 mm		B x H 1400 x 2300 mm B x H 2300 x 1400 mm
External areas Pyrostop 90-261, clear glass, 54 mm Ug = 1,3 w/m² K		B x H 1400 x 2300 mm
Contraflam 90 - N 2		B x H 1200 x 3000 mm B x H 3000 x 1000 mm
Contraflam 90 - N 2 ISO		B x H 1200 x 3000 mm B x H 3000 x 1000 mm
Promat Systemglas 90		B x H 1200 x 2700 mm
Panel		B x H 1200 x 2300 mm B x H 2300 x 1200 mm
Infill/Coffer		B x H 1200 x 2300 mm B x H 2300 x 1200 mm
Panel version II		B x H 1200 x 2300 mm B x H 2300 x 1200 mm

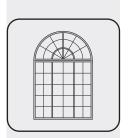
¹⁾ Masonry according to DIN 1053, part 1

Differing glass pane sizes on request.



²⁾ Concrete according to DIN 1045, strength class ≥ B 15

³⁾ From BR height ≥ 3500 mm support posts might be necessary



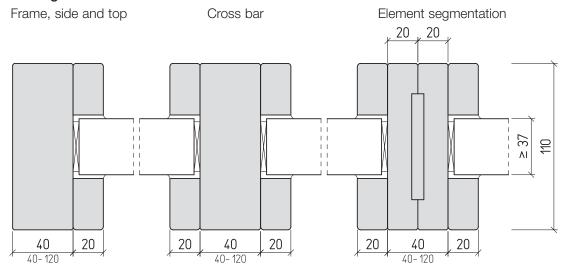
9.6.2

Fixed glazings F 90, Type 90 V

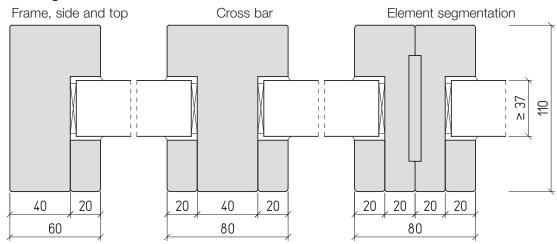
Internal areas with solid wooden frame

Construction and cross sections

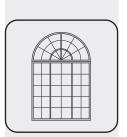
Glazing bead on both sides



Glazing bead on one side







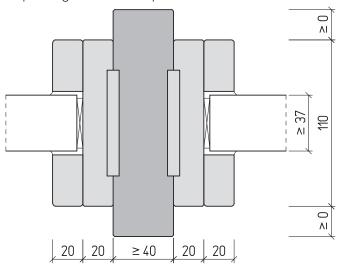
Fixed glazings F 90, Type 90 V

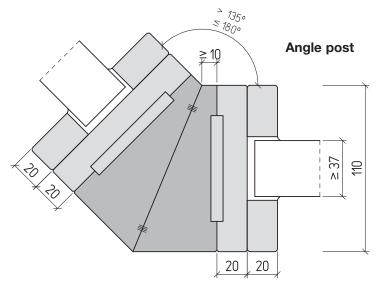
Internal areas with solid wooden frame

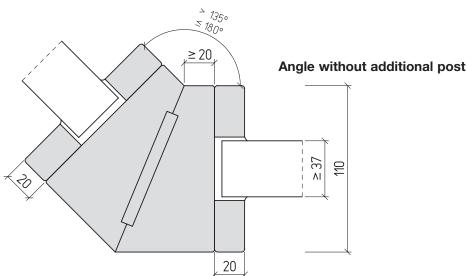
Construction and cross sections

Support posts

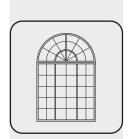
Depending on statical requirements







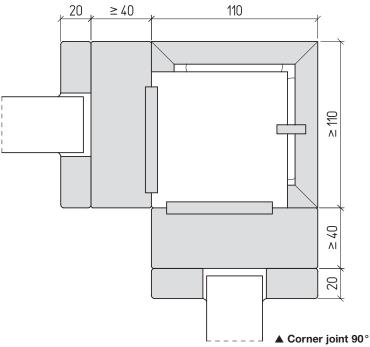




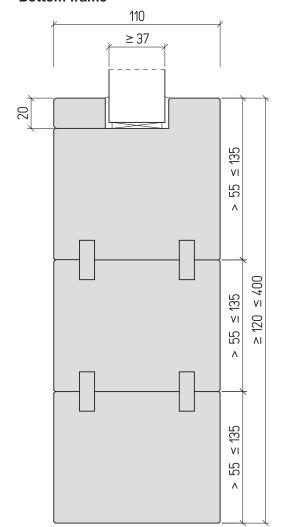
Fixed glazings F 90, Type 90 V

Internal areas with solid wooden frame

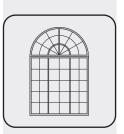
Construction and cross sections



Bottom frame







9.6.2

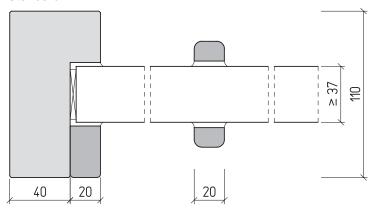
Fixed glazings F 90, Type 90 V

Internal areas with solid wooden frame

Glazing options

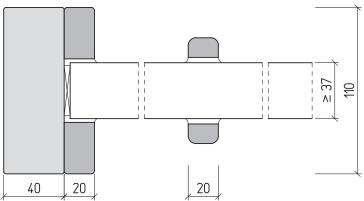
Glazing bead and decorative cross bar

Standard



Glazing bead and decorative cross bar

Glazing bead on both sides



Glazing bead and decorative cross bar

Profile TS 7

28

28

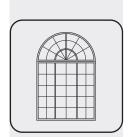
20

40



Note:

Glazing beads are by default delivered veenered, matching the configuration of the door veneer.



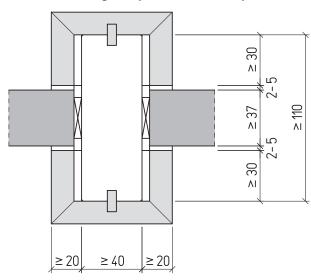
Fixed glazings F 90, Type 90 V

9.6.2

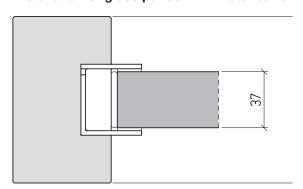
Internal areas with solid wooden frame

Glazing options

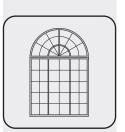
Installation of glass panes with fold-profiles



Installation of glass panes with metal band







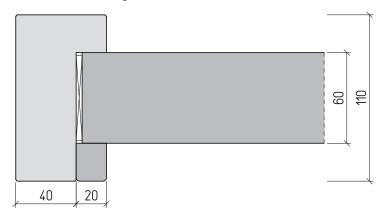
9.6.2

Fixed glazings F 90, Type 90 V

Internal areas with solid wooden frame

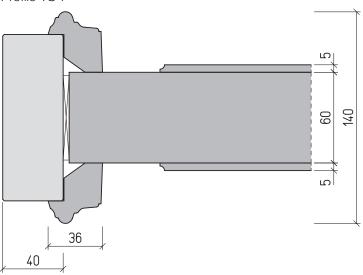
Panel installation, options

Panel instead of glass

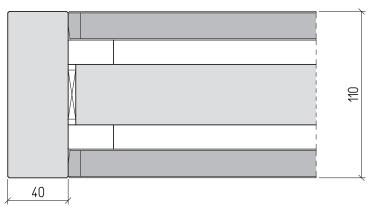


Coffer instead of glass

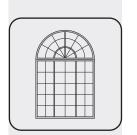
Profile TS 7



Panel version 2 instead of glass







9.6.2

Fixed glazings F 90, Type 90 V

Internal areas with solid wooden frame

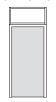
Installation of doors

Standard segmentations

Glazing Type 90 V in combination with 1- and 2-leaf doors Type 91 N/92 N in solid wooden frame or 8 N/24 N in wooden block frame

Segmentation 1

with top panel





Segmentation 2

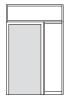
with side panel





Segmentation 3

with continuous top panel width ≤ 3000 mm and side panel

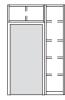




Segmentation 4

with top panel and continuous side panel





Segmentation 5

with side panel on hinge and lock edge

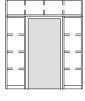




Segmentation 6

with continuous top panel width ≤ 3000 mm and side panel on hinge and lock edge





Segmentation 7

with top panel and continuous side panel on hinge and lock edge

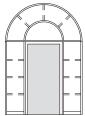




On request with cross bars

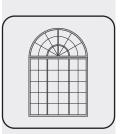
Segmentation 8

Configuration according to drawing (for continuous top panel with width ≤ 3000 mm)



Take maximum glass dimensions into account.





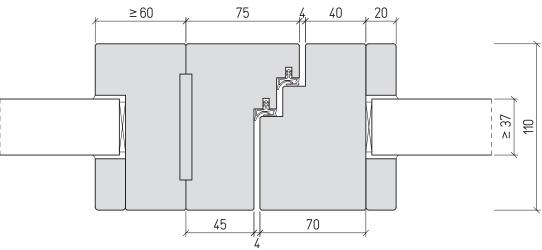
9.6.2

Fixed glazings F 90, Type 90 V

Internal areas with solid wooden frame

Installation of doors

Combination with T 90 solid wood framed doors Solid wooden frame, PA 110 mm

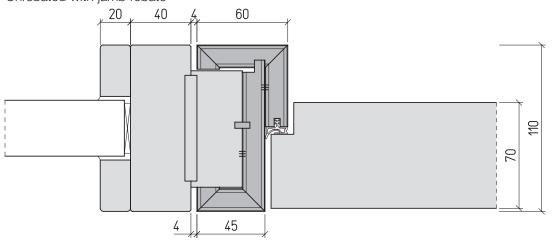


Note:

T 90 solid wooden frame only in combination with Type 91 N/92 N

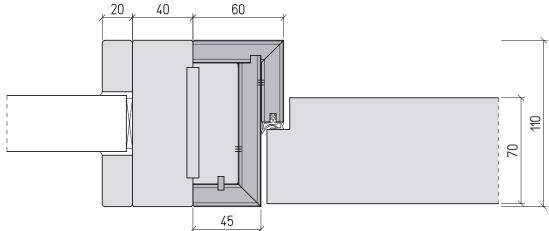
Combination with T 90 doors Wooden block frame, PA 110 mm

Unrebated with jamb rebate



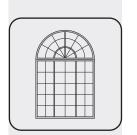
Note

T 90 wooden block frame only in combination with Type 8 N / 24 N oder 80-1 / 80-2





973



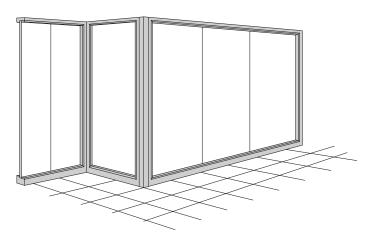
9.6.3

Fixed glazings F 90, Type 90 V

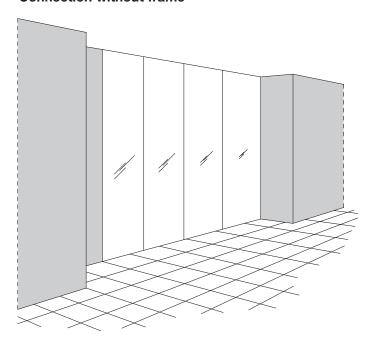
Internal areas, as full glass construction

Examples of use

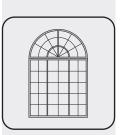
Connection with solid wooden frame



Connection without frame







9.6.3

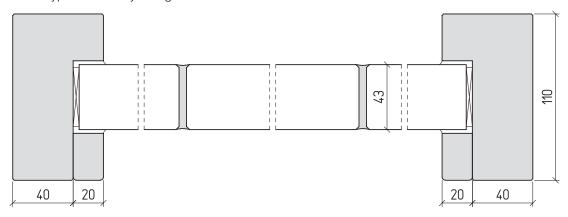
Fixed glazings F 90, Type 90 V

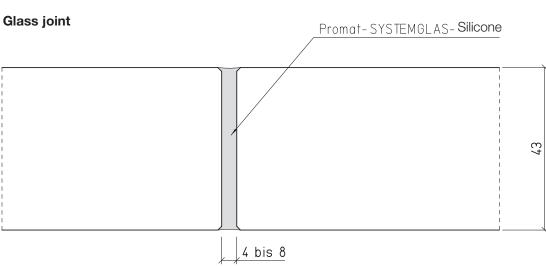
Internal areas, as full glass construction

Construction and cross sections

Frameless glazings

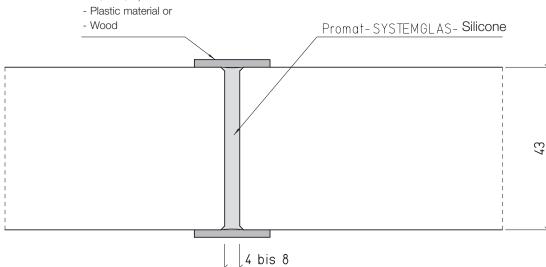
Glass type Promat Systemglas 90



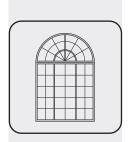


The coverings are available in

- Stainless steel,
- Aluminium,







Glazings 9.6.3

Fixed glazings F 90, Type 90 V and 90 V-S

Internal areas, as full glass construction

Installation of doors

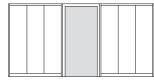
Segmentation examples

Type 8 N / 24 N and 91 N / 92 N

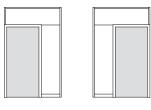
Segmentation 1



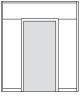
Segmentation 2



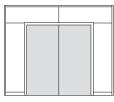
Segmentation 3



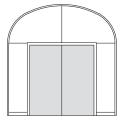
Segmentation 5



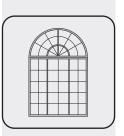
Segmentation 6



Segmentation 7







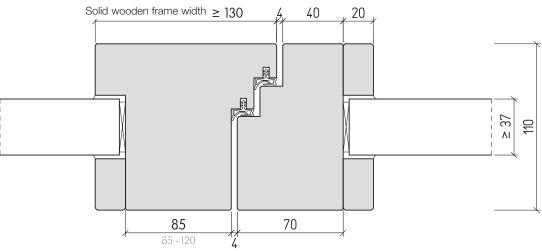
Glazings 9.6.3

Fixed glazings F 90, Type 90 V and 90 V-S

Internal areas, as full glass construction

Installation of doors

Combination with T 90 solid wood framed doors Solid wooden frame, PA 110 mm

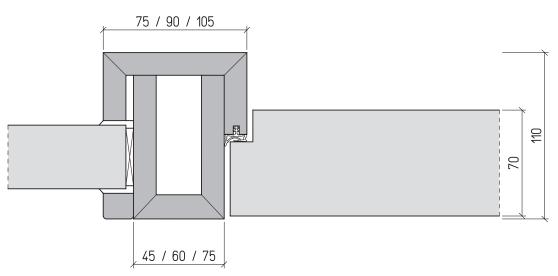


Note:

T 90 solid wooden frame only in combination with Type 91 N/92 N

Combination with T 90 doors Wooden block frame, PA 110 mm

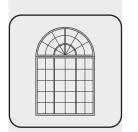
Unrebated with jamb rebate



Note:

T 90 wooden block frame only in combination with Type 8 N/24 N oder 80-1/80-2





9.6.4

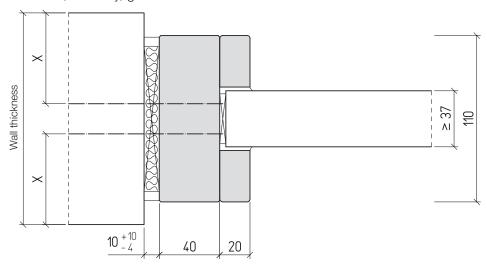
Fixed glazings F 90, Type 90 V and 90 V-S

Internal areas

Connection to walls

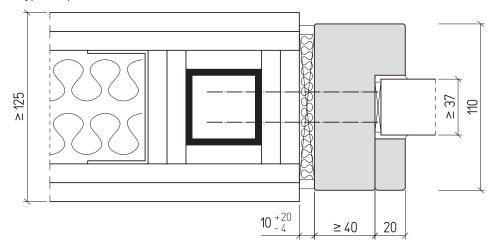
Screw fastening

Concrete, masonry, gasblock concrete

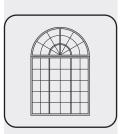


Screw fastening

Gypsum plasterboard wall







Glazings 9.6.4

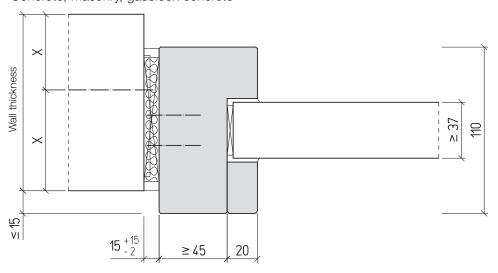
Fixed glazings F 90, Type 90 V and 90 V-S

Internal areas

Connection to walls

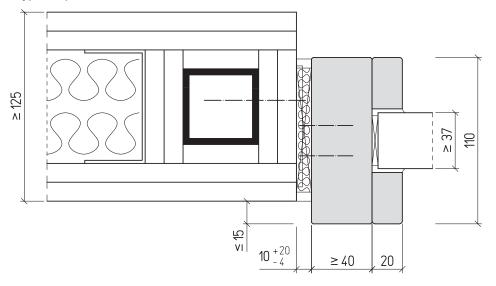
Weld anchor fastening

Projecting installation
Concrete, masonry, gasblock concrete



Weld anchor fastening

Projecting installation Gypsum plasterboard wall





X-Measure

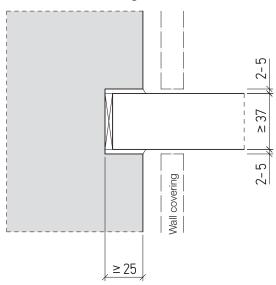
9.6.4

Fixed glazings F 90, Type 90 V and 90 V-S

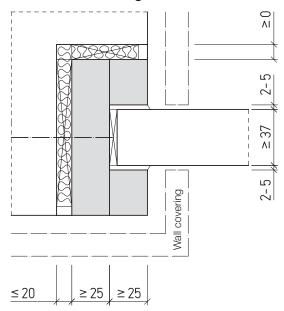
Internal areas

Connection to walls

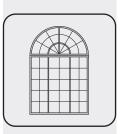
Connection for full glass constructions



Connection for full glass constructions







9.6.4

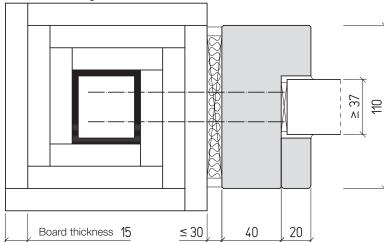
Fixed glazings F 90, Type 90 V and 90 V-S

Internal areas

Special connections

Connection to covered steel element ≥ F 90

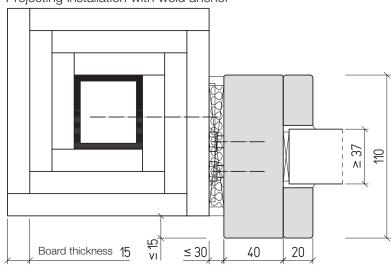
Screw fastening



Post dimensions depending on the statical requirements on site

Connection to covered steel element ≥ F 90

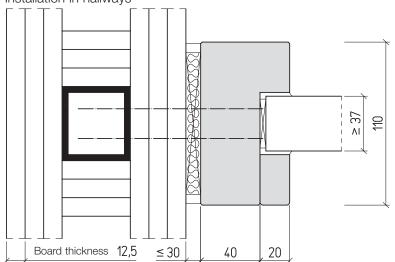
Projecting installation with weld anchor



Post dimensions depending on the statical requirements on site

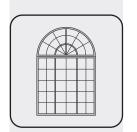
Gypsum plasterboard wall

Installation in hallways



Post dimensions depending on the statical requirements on site



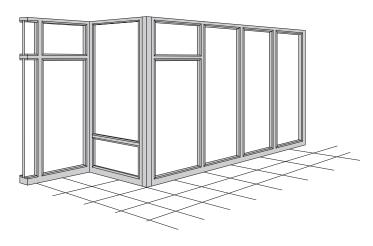


9.6.5

Fixed glazings F 90, Type 90 V

External areas

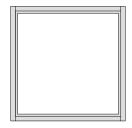
Examples of use

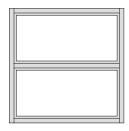


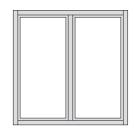
The cross bars can be, depending on the glass size, arranged in any order.

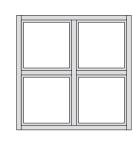
The single glass panes can be arranged either horizontally or vertically. Glass panes, glazing beads and accessories are included in bulk.

Segmentation examples









Without segmentation Horizontal segmentation

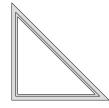
Vertical segmentation

Cross segmentation

Special shapes Examples



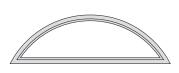


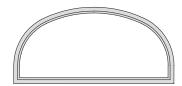


Porthole

Round arch

Bevel

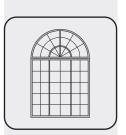




Segmental semicircular arch

Basket arch





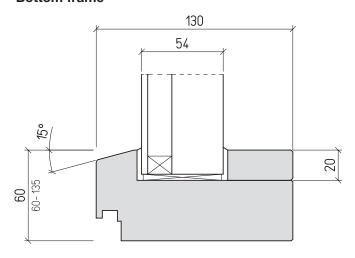
9.6.5

Fixed glazings F 90, Type 90 V

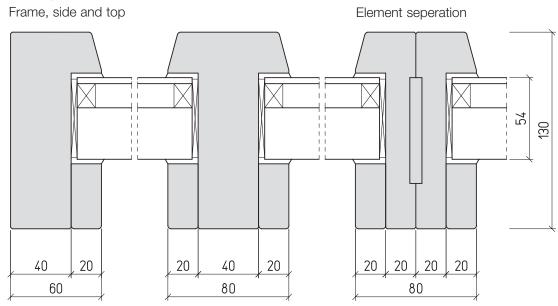
External areas

Construction and cross sections

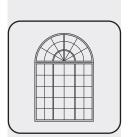
Bottom frame



Glazing bead on one side







9.6.5

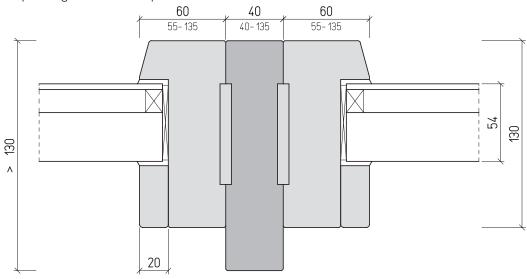
Fixed glazings F 90, Type 90 V

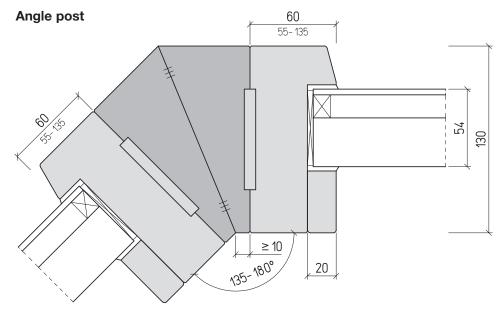
External areas

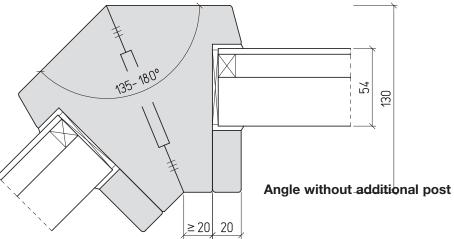
Construction and cross sections

Support post

Depending on statical requirements









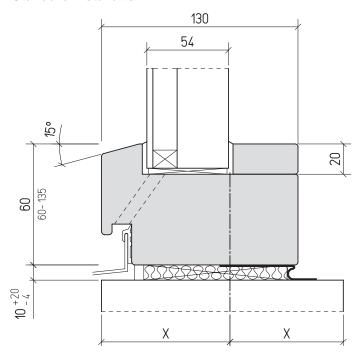
9.6.5

Fixed glazings F 90, Type 90 V

External areas

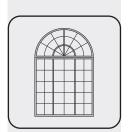
Glazing details

Standard installation



Glazing beads are by default solid wood cross beads without veneer covering.





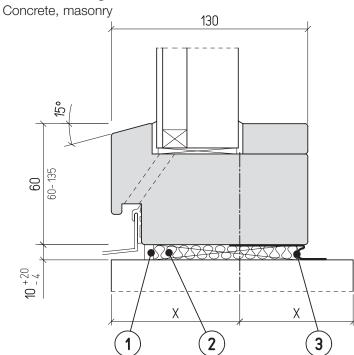
9.6.5

Fixed glazings F 90, Type 90 V

External areas

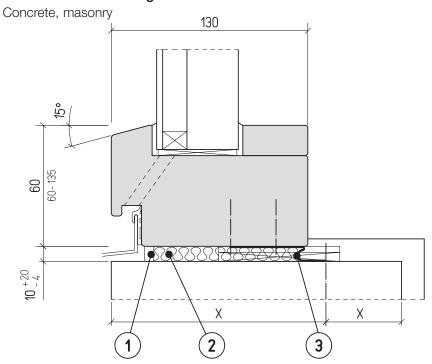
Connection to walls

Screw fastening



Installation meets the installation guidelines of DIN 4108-7 as well as the ones of the RAL-quality control association

Screw anchor fastening



- 1 Joint sealing tape, driving rain tight and water vapor permeable
- 2 Mineral wool stuffing

(3) Window foil, air and vapor tight



Concrete, masonry \geq 50,0 mm Gasblock concrete \geq 87,5 mm



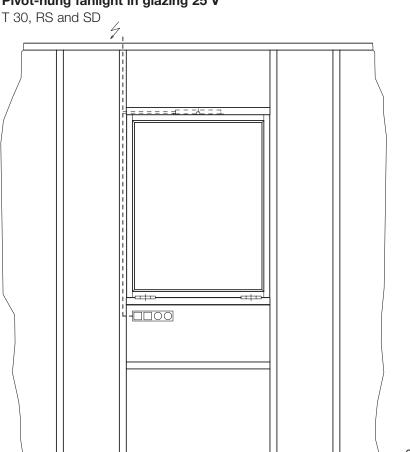
Schörghuber

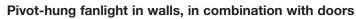
9.7.1

Openable, self-closing glazing F 30 Type 25 V-K - pivot-hung elements

Configuration options, examples of use

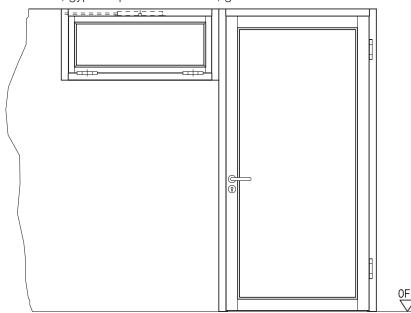
Pivot-hung fanlight in glazing 25 V



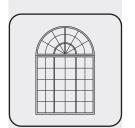


T 30, RS and SD

Solid wall, gypsum plasterboard wall, gasblock concrete







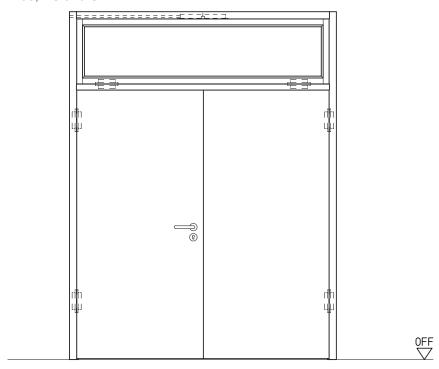
9.7.1

Openable, self-closing glazing F 30 Type 25 V-K - pivot-hung elements

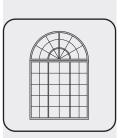
Internal areas, configuration options, examples of use

Pivot-hung fanlight on top of the door set

T 30, RS and SD



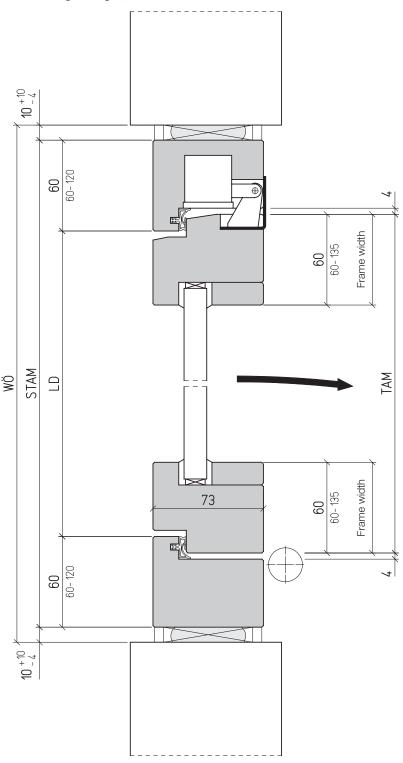




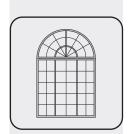
Openable, self-closing glazing F 30 Type 25 V-K - pivot-hung elements

Internal areas, construction and cross sections

Pivot-hung fanlight, vertical cross section





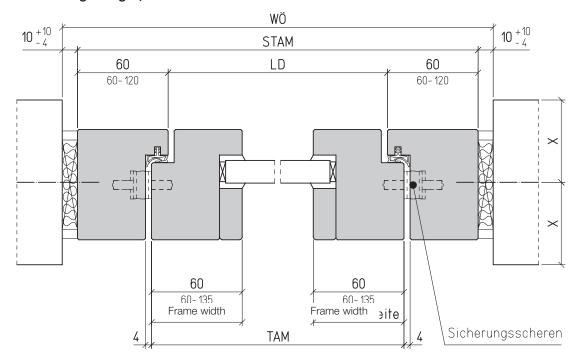


9.7.2

Openable, self-closing glazing F 30 Type 25 V/DK - pivot-hung elements

Internal areas, construction and cross sections

Pivot-hung fanlight, horizontal cross section

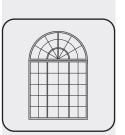


Possible multiple functions

		Multiple functions								
Door type	max. BR	T 30	RS	Rw,P 32	Rw,P 37	VT				
25 V-DK (tiltable)	1250 x 1500 mm 2500 x 1000 mm	0	0	0	0	0				
25 V-DK (turnable)	1314 x 2500 mm	0	0	0	0	0				

Other sizes on request

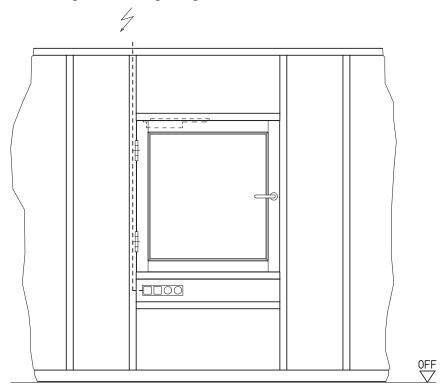




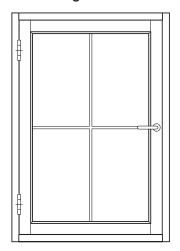
Openable, self-closing glazing F 30 Type 25 V-D - pivot-hung elements

Internal areas, examples of use

Pivot-hung element in glazing V 25

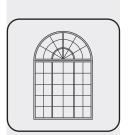


Pivot-hung element in solid wall





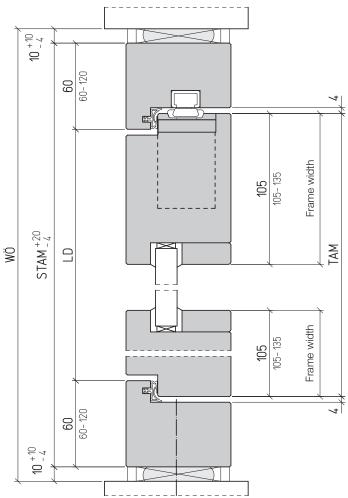




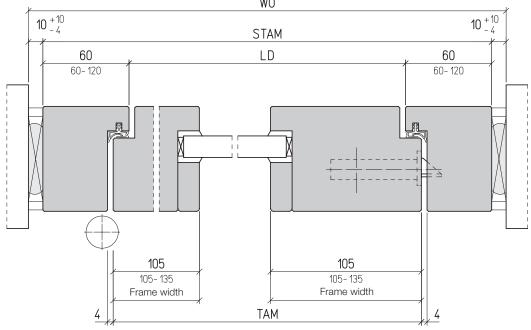
Openable, self-closing glazing F 30 Type 25 V/DK - pivot-hung elements

Internal areas, construction and cross sections

Pivot-hung fanlight, vertical cross section



Pivot-hung fanlight, horizontal cross section





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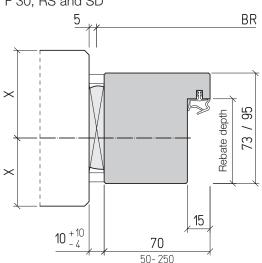
9.7.3

Openable, self-closing glazing F 30 Type 25 V-K and Type 25 V-D - pivot-hung elements

Internal areas, connection to walls

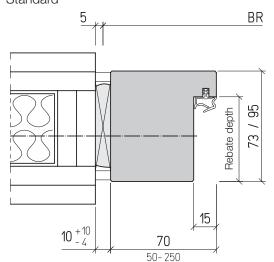
Concrete, masonry

Screw fastening F 30, RS and SD



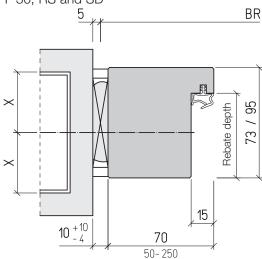
F 30, RS and SD

Screw fastening Standard



Gasblock concrete

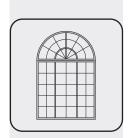
Screw fastening F 30, RS and SD



X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to a door weight of 100 kg Gasblock concrete RS \geq 75,0 mm





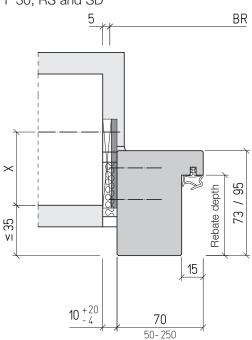
9.7.3

Openable, self-closing glazing F 30 Type 25 V-K and Type 25 V-D - pivot-hung elements

Internal areas, connection to walls

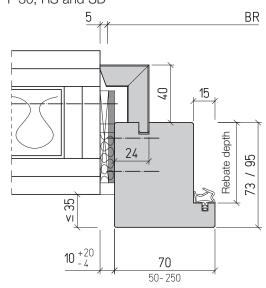
Concrete, masonry

Screw anchor fastening F 30, RS and SD



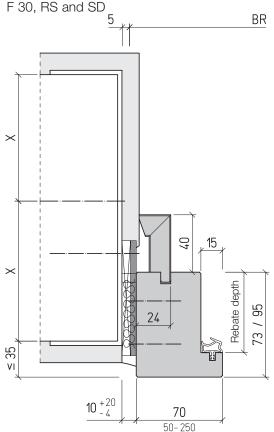
Gypsum plasterboard wall

Screw anchor fastening A - B F 30, RS and SD



Gasblock concrete

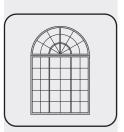
Screw anchor fastening A - B



X-Measure

Concrete, masonry ≥ 50,0 mm Gasblock concrete T 30 ≥ 87,5 mm Gasblock concrete T 30, RS ≥ 57,5 mm up to a door weight of 100 kg Gasblock concrete RS ≥ 75,0 mm





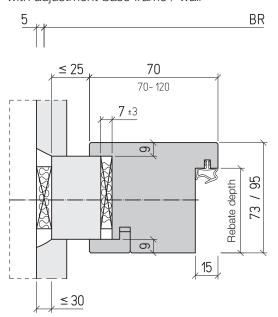
Glazings 9.7.3

Openable, self-closing glazing F 30 Type 25 V-K and Type 25 V-D - pivot-hung elements

Internal areas, connection to walls

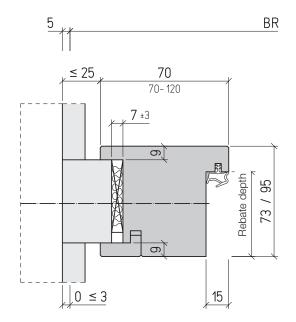
Concrete, masonry

On site constructed quirk F 30, RS and SD with adjustment base frame / wall



Concrete, masonry

On site constructed quirk F 30, RS and SD base frame mounted directly on the wall



Gypsum plasterboard wall

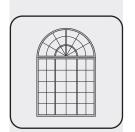
On site constructed quirk
with base frame
F 30, RS and SD
with adjustment
base frame / wall

\$\leq 30 \quad \leq 25 \quad 70 \\
\$\leq 30 \quad \leq 25 \quad 70 \\
\$\leq 10 \frac{+20}{-4} \quad 15 \end{array}\$



X-Measure

Concrete, masonry $\geq 50,0 \text{ mm}$ Gasblock concrete T 30 $\geq 87,5 \text{ mm}$ Gasblock concrete T 30, RS $\geq 57,5 \text{ mm}$ up to a door weight of 100 kg Gasblock concrete RS $\geq 75,0 \text{ mm}$

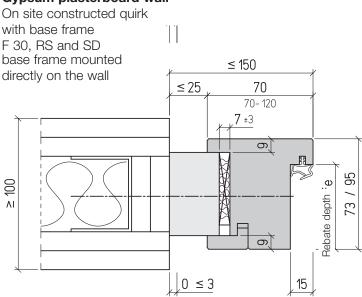


9.7.3

Openable, self-closing glazing F 30 Type 25 V-K and Type 25 V-D - pivot-hung elements

Internal areas, connection to walls

Gypsum plasterboard wall

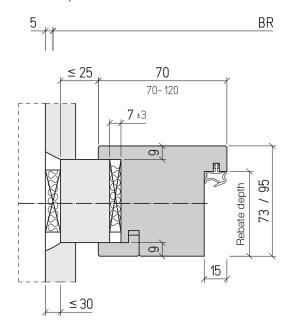


Concrete, masonry, gasblock concrete

F 30, RS and SD

On site constructed quirk as installation in hall-ways

with compensation base frame / wall

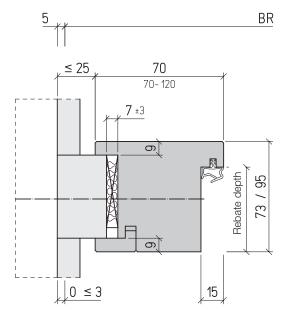


Concrete, masonry, gasblock concrete

F 30, RS and SD

On site constructed quirk as installation in hall-ways

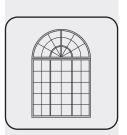
base frame mounted directly on the wall





X-Measure

Concrete, masonry \geq 50,0 mm Gasblock concrete T 30 \geq 87,5 mm Gasblock concrete T 30, RS \geq 57,5 mm up to a door weight of 100 kg Gasblock concrete RS \geq 75,0 mm

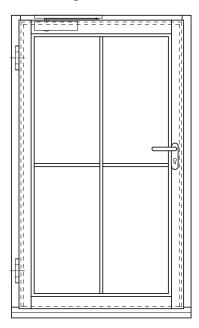


9.7.4

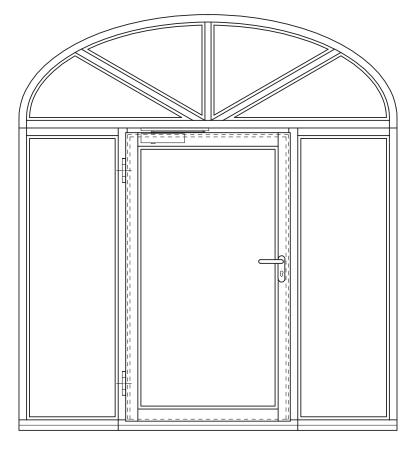
Openable, self-closing glazing F 30 Type 25 V-DA - pivot-hung elements

External areas, configuration options, examples of use

Pivot-hung element in external walls

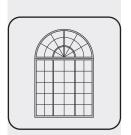


Pivot-hung element in glazing for installation in external walls





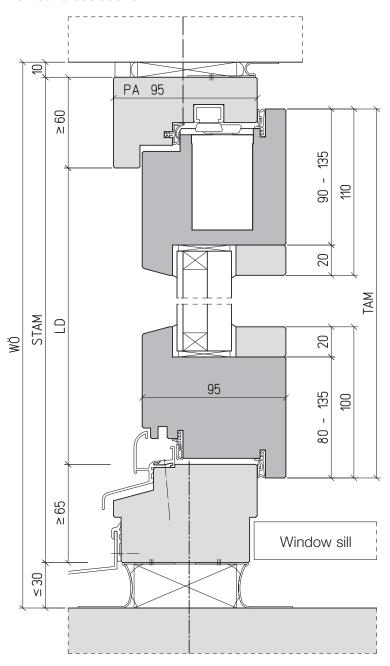




Openable, self-closing glazing F 30 Type 25 V-DA - pivot-hung elements

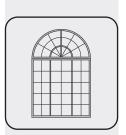
External areas, construction and coss sections

Vertical cross section







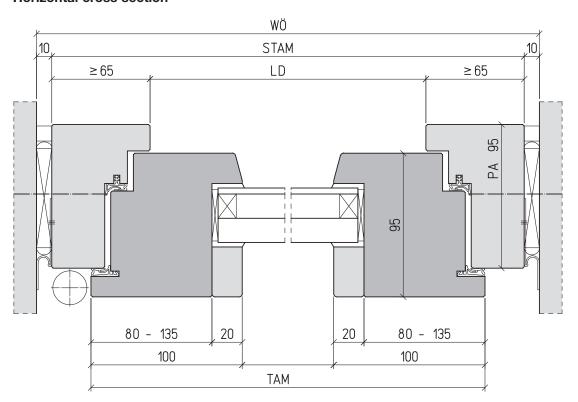


9.7.4

Openable, self-closing glazing F 30 Type 25 V-DA - pivot-hung elements

External areas, construction and coss sections

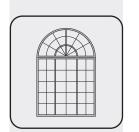
Horizontal cross section



Multiple functions

Tech. data De-scription	max. Element size BR max.	Т 30	RS	Rw,P 37 dB	Rw,P 42 dB	Climate category 4	Stress group S	Stress group E	Resistance class 5 and 13	Drive rain resistance class 9A	Heat permeability coefficient ≤ x	Air permeability class 4	WK 2	WK 3
25 V - DA	1375 x 2250 mm	0	0	0	0	0	0	0	0	0	0	О	0	0
25 V - DA in 25 V	3000 x 3000 mm	0	0	0	0	0	0	0	0	0	0	0	0	0





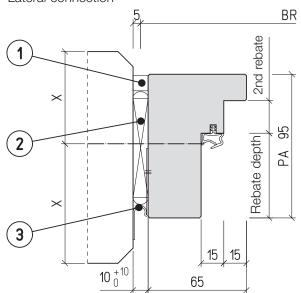
9.7.4

Openable, self-closing glazing F 30 Type 25 V-DA - pivot-hung elements

External areas, connection to walls

Concrete, masonry

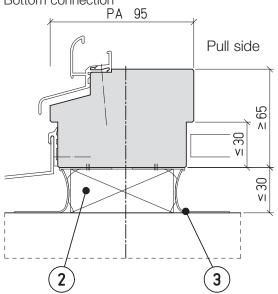
Lateral connection

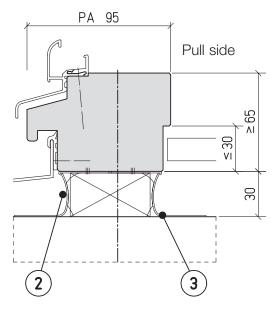


Installation meets the installation guidelines of DIN 4108-7 as well as the ones of the RAL-quality control association

Concrete, masonry

Bottom connection



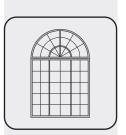


Installation meets the installation guidelines of DIN 4108-7 as well as the ones of the RAL-quality control association

- Joint sealing tape, driving rain tight and water vapor permeable 1
- 2 PU-foam, heat-insulating
- 3 Window foil, air and vapor tight







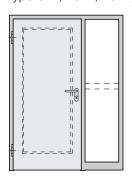
9.8.1

T 30 – fixed side panels

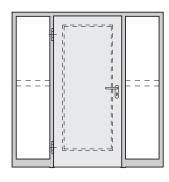
Configuration options

1-leaf door

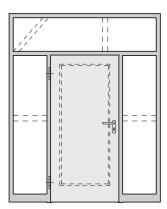
Type 3 N, 13 N, 16 N, 5 N, 25 N, 10 N



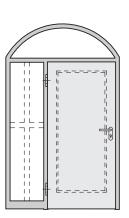
Fixed side panel on one side



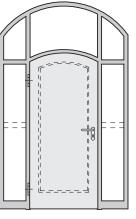
Fixed side panels on both sides



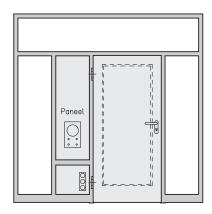
Fanlight and fixed side panels on both sides



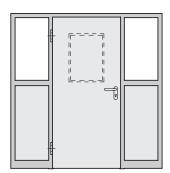
Semicircular fanlight and a fixed side panel on one side



Segmental semicircular fanlight and fixed side panels on both sides



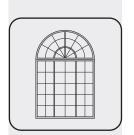
Fanlight, panel fields and fixed side panels on both sides



Fixed side panels and panel fields on both sides



T 30 door sets with fixed side panels are available with steel, wooden wrap-around, wooden block or solid wooden frame. Door leaf edge either rebated, unrebated or unrebated with jamb rebate.



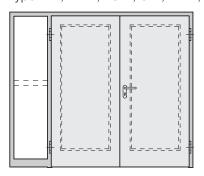
9.8.1

T 30 – fixed side panels

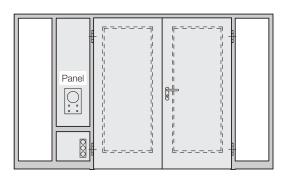
Configuration options

2-leaf door

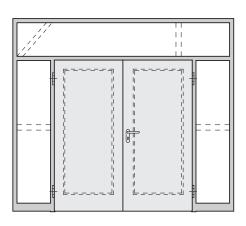
Type 4 N, 14 N, 26 N, 6 N, 27 N, 20 N



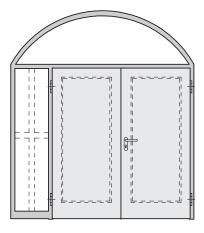
Fixed side panel on one side



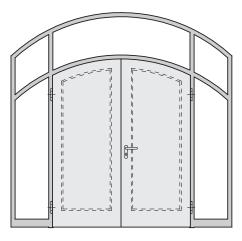
Panel fields and fixed side panels on both sides



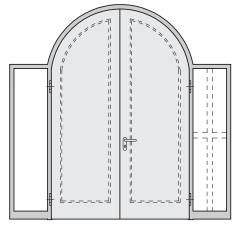
Fanlight and fixed side panels on both sides



Semicircular fanlight and a fixed side panel on one side



Segmental semicircular arch and fixed side panels on both sides



Round-arch door with fixed side panels on both sides



9.8.2

Glazings

T 30 - fixed side panels

Multiple functions

T 30 door sets with fixed side panels are available in various combinations:

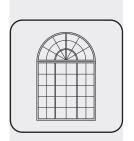
1-leaf door

max. door set dimensions BR 3500 x 3500 mm		Multiple functions										
Door type max. LD (Clear opening)		T 30	RS	Rw,P 32	Rw,P 37	Rw,P 42	WK2	WK 3	VT			
	3 N	1311 x 2718 mm	0	0	0			0		О		
	13 N	1311 x 2718 mm	0	0		0		0		О		
door	16 N	1436 x 2968 mm	0	0	0			0	0	О		
-leaf d	5 N	1436 x 2968 mm	0	0		0	0	0	0	О		
1	35 N	1186 x 2218 mm	0	0	0	0	0	0	0	О		
	25 N	1436 x 3468 mm	0	0	0					0		
	10 N	1436 x 3468 mm	0	0	0	0	0			0		

2-leaf door

max. door set dimensions BR 4500 x 3500 mm			Multiple functions										
Door type max. LD (Clear opening)			T 30	RS	Rw,P 32	Rw,P 37	Rw,P 42	WK2	WK 3	VT			
	4 N	2736 x 2718 mm	0	0	0					0			
2-leaf door	14 N	2736 x 2718 mm	0	0		0				0			
	26 N	2936 x 2968 mm	0	0	0			0		0			
	6 N	2936 x 2968 mm	О	0		0	0	0		0			
	27 N	2936 x 3468 mm	0	0	0					0			
	20 N	2936 x 3468 mm	0	0	0	0	0			0			





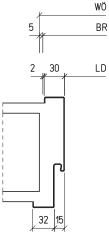
9.8.3

T 30 - fixed side panels

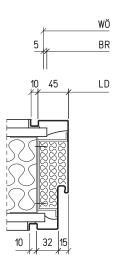
Overview steel frames

Wrap-around frame

Concrete, masonry, gasblock concrete

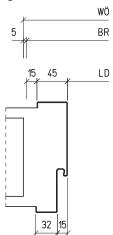


Quirk frame Gypsum plasterboard wall



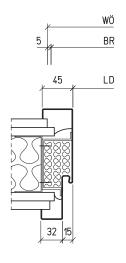
Block frame

Concrete, masonry, gasblock concrete



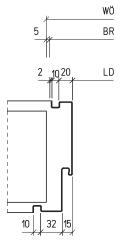
Wrap-around frame

Gypsum plasterboard wall



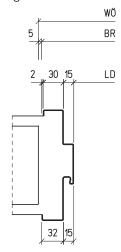
Wrap-around frame

Concrete, masonry, gasblock concrete



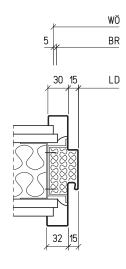
Decorative rebated frame

Concrete, masonry, gasblock concrete



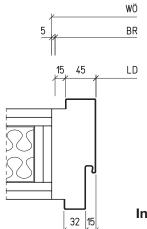
Decorative rebated frame

Gypsum plasterboard wall



Block frame

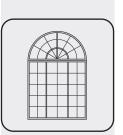
Gypsum plasterboard wall







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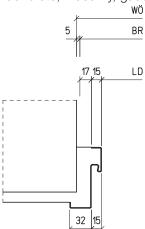


T 30 – fixed side panels

Overview steel frames

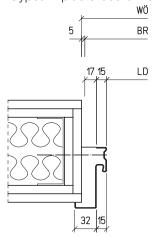
Corner frame

Concrete, masonry, gasblock concrete



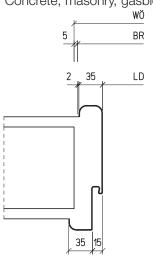
Corner frame

Gypsum plasterboard wall



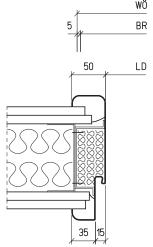
Round-shaped frame

Concrete, masonry, gasblock concrete



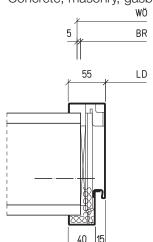
Round-shaped frame

Gypsum plasterboard wall wö



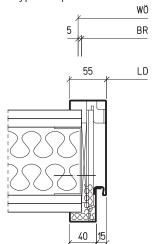
Installation in existing walls

Trapezoid anchor fastening Concrete, masonry, gasblock concrete



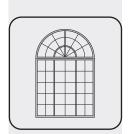
Installation in existing walls

Trapezoid anchor fastening Gypsum plasterboard wall



Installation details ⇒ see chapter 5





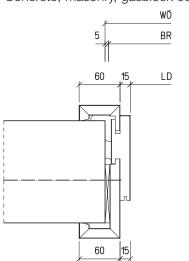
9.8.4

T 30 - fixed side panels

Overview wooden frames

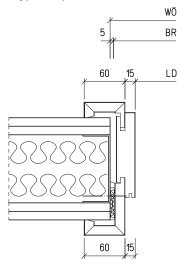
Wooden wrap-around frame

Concrete, masonry, gasblock concrete



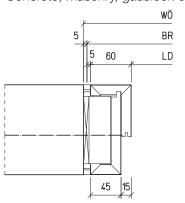
Wooden wrap-around frame

Gypsum plasterboard wall



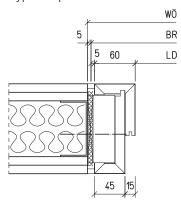
Wooden block frame

Concrete, masonry, gasblock concrete



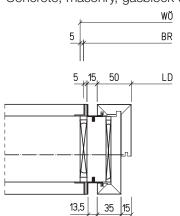
Wooden block frame

Gypsum plasterboard wall



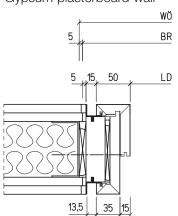
Quirk frame

Concrete, masonry, gasblock concrete



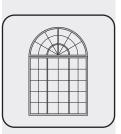
Quirk frame

Gypsum plasterboard wall





Installation details ⇒ see chapter 5



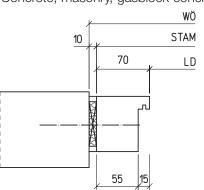
9.8.4

T 30 – fixed side panels

Overview wooden frames

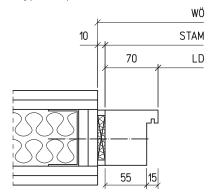
Solid wooden frame

Screw fastening Concrete, masonry, gasblock concrete



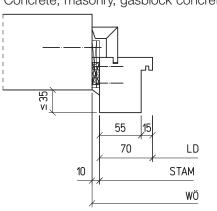
Solid wooden frame

Screw fastening Gypsum plasterboard wall



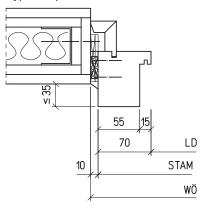
Solid wooden frame

Screw anchor fastening Concrete, masonry, gasblock concrete



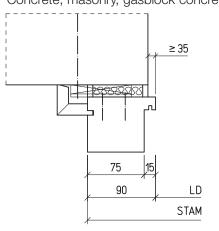
Solid wooden frame

Screw anchor fastening Gypsum plasterboard wall



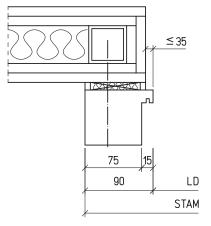
Solid wooden frame

Installation in front of the wall opening Concrete, masonry, gasblock concrete



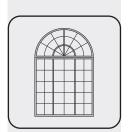
Solid wooden frame

Installation in front of the wall opening Gypsum plasterboard wall





Installation details ⇒ see chapter 5



9.8.4

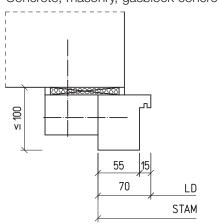
T 30 - fixed side panels

Overview wooden frames

Solid wooden frame - projecting frame

with base frame

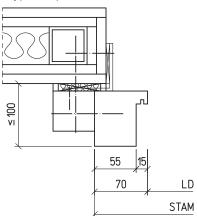
Concrete, masonry, gasblock concrete



Solid wooden frame - projecting frame

with base frame

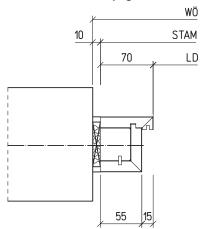
Gypsum plasterboard wall



Folded frame

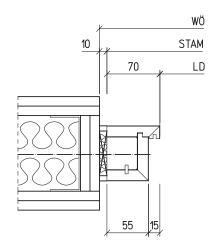
Screw fastening

Concrete, masonry, gasblock concrete



Folded frame

Gypsum plasterboard wall

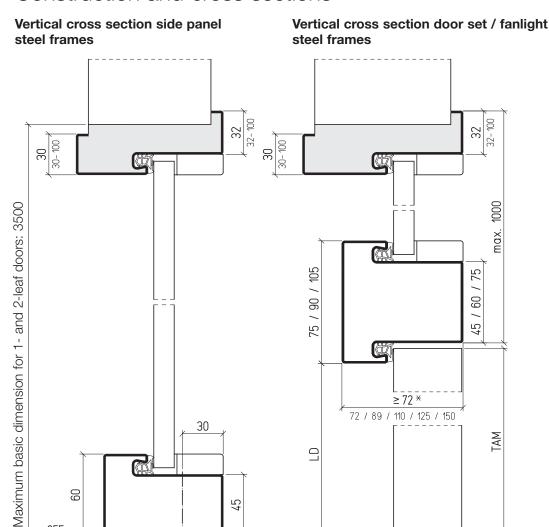




9.8.5

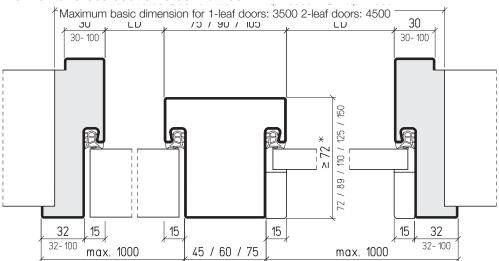
T 30 – fixed side panels

Construction and cross sections



Horizontal cross section steel frames

9

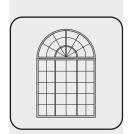


45



Installation details ⇒ see chapter 5





9.8.5

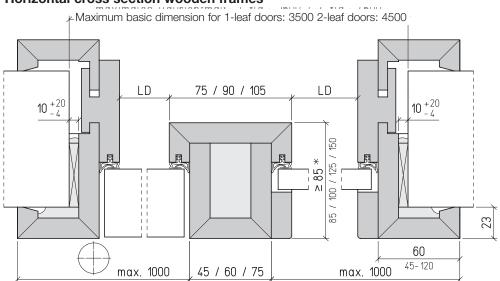
T 30 - fixed side panels

Construction and cross sections

Vertical cross section side panel Vertical cross section door set / fanlight wooden frames wooden frames 23 45-120 120 9 9 Maximum basic dimension for 1- and 2-leaf doors: 3500 max. 90 / 105 9 45 ≥ 85 × 9 85 / 100 / 125 / 150 45

Horizontal cross section wooden frames

85 / 100 / 125 / 150





Installation details ⇒ see chapter 5

* according to statical calculations

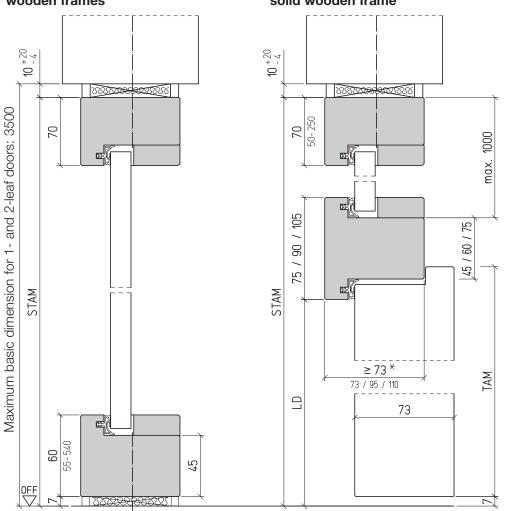
9.8.5

T 30 – fixed side panels

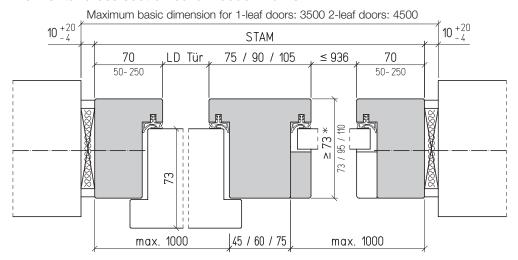
Construction and cross sections

Vertical cross section side panel wooden frames

Vertical cross section door set / fanlight solid wooden frame



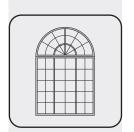
Horizontal cross section solid wooden frame











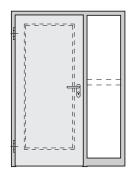
9.9.1

T 90 – fixed side panels

Configuration options

1-leaf door

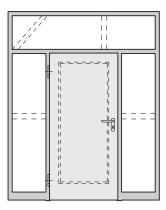
Type 8 N



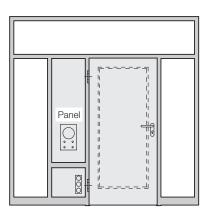
Fixed side panel on one side



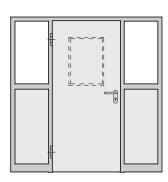
Fixed side panels on both sides



Fanlight and fixed side panels on both sides

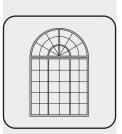


Fanlight, panel field and fixed side panels on both sides



Fixed side panels and panel fields on both sides





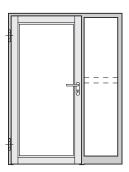
9.9.1

T 90 – fixed side panels

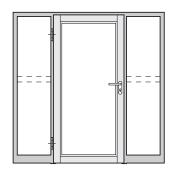
Configuration options

1-leaf door

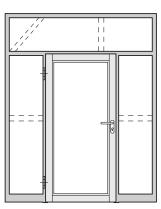
Type 91 N



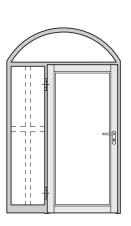
Fixed side panel on one side



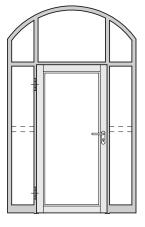
Fixed side panels on both sides



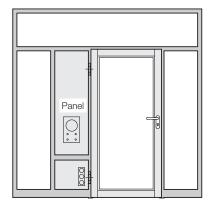
Fanlight and fixed side panels on both sides



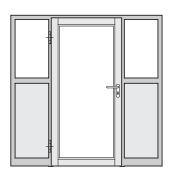
Semicircular fanlight and fixed side panels on one side



Segmental semicircular fanlight and fixed side panels on both sides

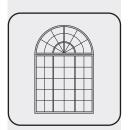


Fanlight, panel fields and fixed side panels on both sides



Fixed side panels and panel fields on both sides





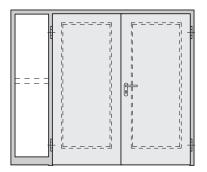
9.9.1

T 90 - fixed side panels

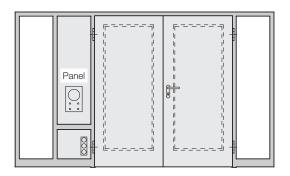
Configuration options

2-leaf door

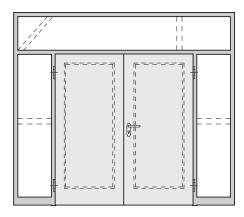
Type 24 N



Fixed side panel on one side

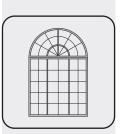


Panel fields and fixed side panels on both sides



Fanlight and fixed side panels on both sides





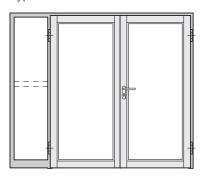
9.9.1

T 90 - fixed side panels

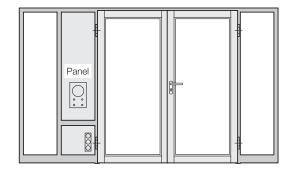
Configuration options

2-leaf door

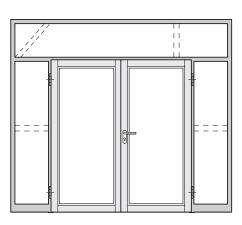
Type 92 N



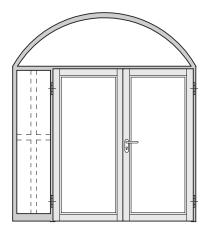
Fixed side panel on one side



Panel field and fixed side panels on both sides

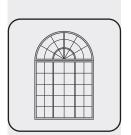


Fanlight and fixed side panels on both sides



Semicircular fanlight and fixed side panel on one side





T 90 - fixed side panels

9.9.2

Multiple functions

T 90 door sets with fixed side panels are available in various combinations:

1-leaf door

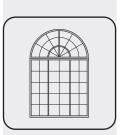
		set dimensi 3500 mm	ons	Multiple functions							
Dod	Door type max. LD (Clear opening)				RS	Rw,P 32	Rw,P 37				
door	8 N	1436 x 29	968 mm	0	0	0	0				
1-leaf	91 N	1311 x 29	968 mm	0	0		0				

2-leaf door

		set dimension 3500 mm	ons	Multiple functions						
Do	Door type max. LD (Clear opening)				RS	Rw,P 32	Rw,P 37			
door	24 N	2936 x 29	68 mm	0	0	0	0			
2-leaf	92 N	2716 x 29	68 mm	0	0		0			

Wooden special doors





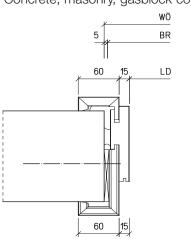
9.9.3

T 90 – fixed side panels

Overview wooden frames 8 N and 24 N

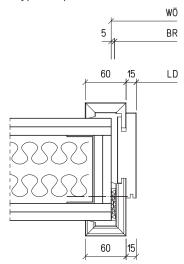
Wooden wrap-around frame

Concrete, masonry, gasblock concrete



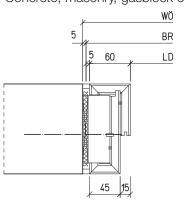
Wooden wrap-around frame

Gypsum plasterboard wall



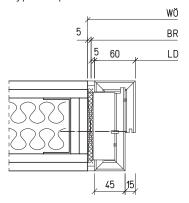
Wooden block frame

Concrete, masonry, gasblock concrete



Wooden block frame

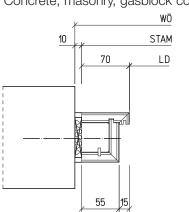
Gypsum plasterboard wall



Folded frame

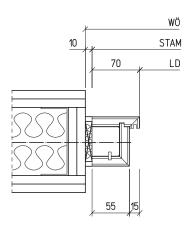
Screw fastening

Concrete, masonry, gasblock concrete



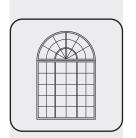
Folded frame

Gypsum plasterboard wall





Installation details → see chapter 5

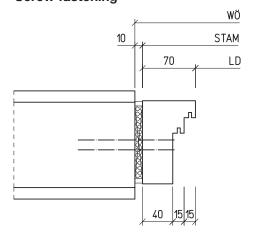


9.9.4

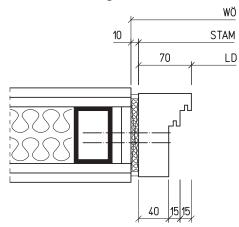
T 90 – fixed side panels

Overview wooden frames 91 N and 92 N

Screw fastening

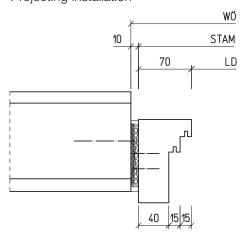


Screw fastening



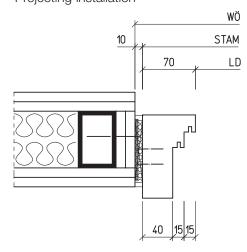
Weld fastening

Projecting installation



Weld fastening

Projecting installation



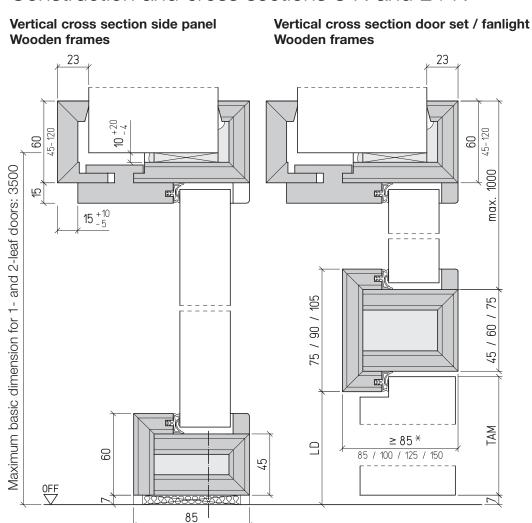




9.9.5

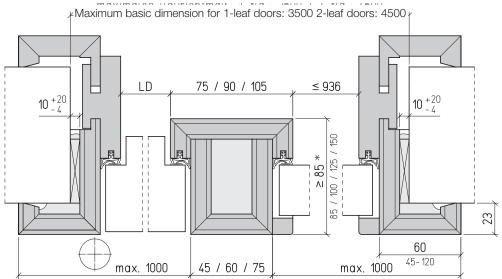
T 90 – fixed side panels

Construction and cross sections 8 N and 24 N



Horizontal cross section wooden frames

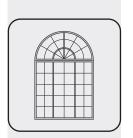
85 / 100 / 125 / 150





Installation details ⇒ see chapter 5

^{*} according to statical calculations



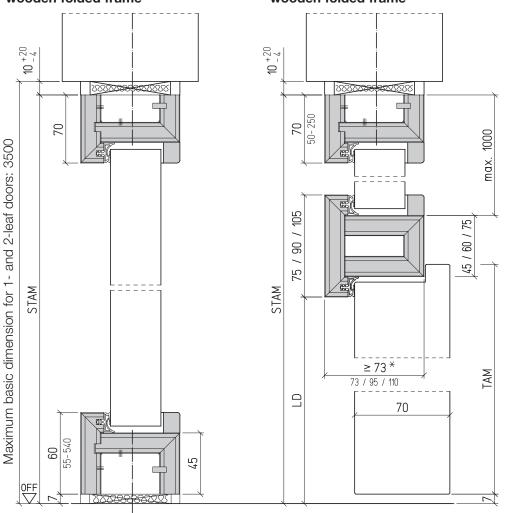
9.9.5

T 90 - fixed side panels

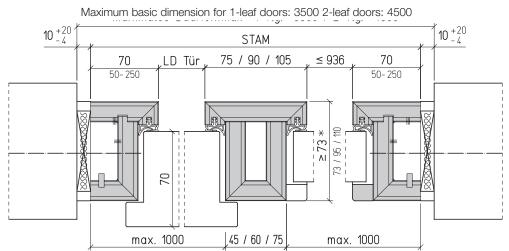
Construction and cross sections 8 N and 24 N

Vertical cross section side panel wooden folded frame

Vertical cross section door set / fanlight wooden folded frame



Horizontal cross section wooden folded frame



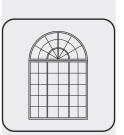


Installation details

⇒ see chapter 5

* according to statical calculations

9.9.5

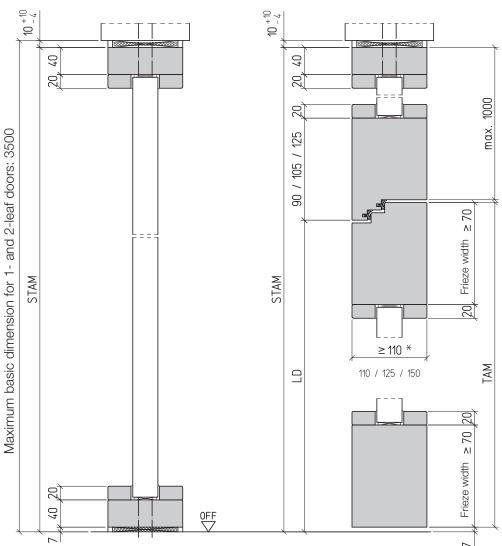


Glazings

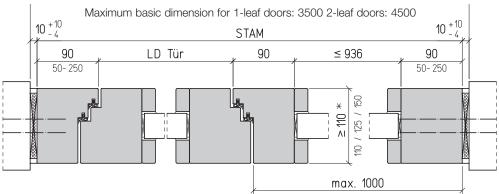
T 90 – fixed side panels

Construction and cross sections 91 N and 92 N

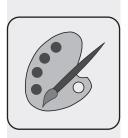
Vertical cross section side panel Vertical cross section door set / fanlight wooden frames wooden frames 10 + 10



Horizontal cross section wooden frames







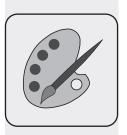
Surfaces

Content

10

		Page
10.1	General information	1025
10.2	Veneer	1026 - 1029
10.3	HPL	1030 - 1031
10.4	CPL	1032
10.5	Colour coating	1033
10.6	Processing directions	1034





Surfaces 10.1

General information

Configuration

Appearance of the door set

The appearance of a door set is mainly definrd by its surface. Schörghuber special doors meet the various requirements demanded by high-quality heavy-duty doors by offering a variety of different surface configurations. Independent of the door function the requests of the planner can be accounted for. Hereby it is possible to highlight and integrate the door set as creative instrument with its function as a passageway within the building.

The surface is part of the expressiveness of a door set and allows the planner to set architectural emphases in an individual and imaginative way.

Coating of door leaf and frame

Schörghuber offers high-quality industrially manufactured surfaces for door leafs (top layer) and wooden frames. Available options are:

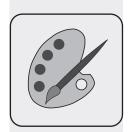
- Veneer
- HPL
- Colour coatings
- Undercoating foil for on site coating (door leafs/wooden wrap-around frames)
- Untreated solid wood for on site surface treatment (solid wood door sets/steel frames)
- Special surface coatings

Furthermore it is possible that the surface treatment is carried out by the fabricator or interior contractor.

Besidesnan on site colour coating it is also possible to glaze and/or stain the veneer on site. If necessary the coating as well as the surface treatment of the doors (e. g. the staining etc.) can be carried out by the interior contractor/specialist. Hereby the processing directions defined in chapter 10.5 have to be followed.

Steel frames are delivered galvanized and undercoated. On request a powder coating in RAL or special colours is possible as well.





Surfaces

Veneer

Configuration

Wood is a natural product

Depending on the texture of the wood (commonly known as the wood grain) the veneer image is constructed. The wood grain is determined by the natural growth of the wood, growth abnormalities (e.g. pyramid, waler, root, or birds eye growth) and colour differentiations. Colour and grain depend on the single areas of origin of the different wood types. Therefore there are differences from stem to stem and even within the same stem.

One must be aware of the fact that there are natural features within the wood which are sometimes mistaken as faulty parts, but should rather be seen as characteristics.

Features of the natural product wood are for example structure, splint, light walers or irregular flames, irregularities of the grain, colour shadows within the stem, knots, knobs, splatters. Simply everything that belongs to the nature of the wood.

Just like humans, wood is a natural product and in nature no part resembles the other.

Types and configurations of veneer

In veneer construction there are several different possible layouts (horizontal, vertical, tangential) within the stem which determine the image of the grain. Veneers are classified according to their manufacturing process, knife-cut, rotary-cut or saw-cut veneer. Commercial quality veneers of various types of wood have a width of about 0,5 bis 0,7 mm, coniferous woods up to 0,9 mm.

The veener used to manufacture Schörghuber special doors and wooden frames are usually

high-quality knife-cut veneers. Due to the manufacturing process of knife-cut veneers it is possible that shine and colour of the veneer sheets may vary, because different light breaking effects within the wood structure may occur (especially typical for maple).

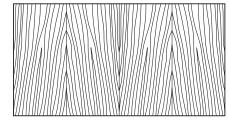
In order to coat large-scale door leafs the single veneer sheets are joint and glued in order to achieve a continous veener image.

Usually the single veneer sheets are **book matched**, which results in a pairwise mirrored veener image.

Veneers for door leafs are usually **figured**, whereas veneers for wooden frames and solid wooden frames are usually **striped**.

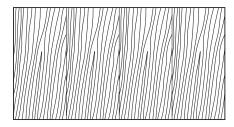
For stained surfaces the veneer can be **slip matched**, if the following surface treatment highlights the light and dark effects between the veneer sheets.

In order to achieve the appearance of a style door (solid wood framed door) the veneer sheets can be arranged **jointed on frames**, while the inner veener is configured in a bloomy style.

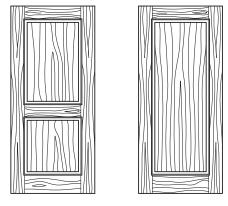


10.2

Veneer pattern book matched

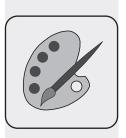


Veneer pattern slip matched



Veneer pattern jointed on frames





Surfaces

Veneer

Configuration

Clear coated surfaces

Veneered surfaces are by default transparently coated at Schörghuber. The used two component finishes produce a highly durable surface coating which is especially necessary in the area of high-quality heavy-duty doors. The finish is usually carried out in a environmentally friendly casting, rolling or spraying process which produces an appealing and homogeneous quality door surface.

Stained surfaces

On request veneered doors and frames can be stained in certain colours and according to sample before being clear coated. Hereby different effects can be achieved, e.g. to increase the natural wooden grain or the more or less covering stain with which a wide equalization can be achieved. Due to the different absorbtion capacities of the cells wood specific stain tones of particular luminosity and depth effect are achieved without distroying the actual character of the wood.

Colour coated surfaces

With a colour coating with pigmented polyurethane lacquers (e.g. RAL- or NCS- colours) the pattern and grain of a wooden surface can be accentuated without obtaining the colour of the original wood. Hereby one distinguishes between open porous and partially closed porous coatings. This surface finish is usually used for large-pored wood types, such as for example ash or oak.

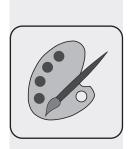
Untreated surfaces

If to be finished by a specialist/fabricator the veneered doors and frames can be delivered in untreated state (raw) if necessary. When finished on site the door set has to be finish grinded. Hereby the according processing directions have to be followed.

On site coating

In order to be finished on site, either with veneer respectively HPL (> Chapter 10.5) or an on site coating (> Chapter 10.4) the door leaf surface is coated with undercoating foil, which just has to be lightly grinded before being processed any further. On request and for additional charge the door leaf can also be veneered horizontally in preperation for further on site processing. On site processings, such as the above mentioned coating or on site surface finishing, e.g. grinding, colour coating, glazing, staining etc., are by basic principle to be carried out by a specialist (carpenter, interior contractor, painter).





Surfaces Veneer Configuration







Maple



Pear



Oak





Ash



Spruce

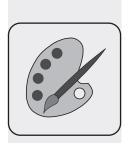


Pine



European Cherry





Surfaces Veneer Configuration



Larch



Limba



European Walnut



Oregon Pine



Copper Beech



Elm



Sapeli

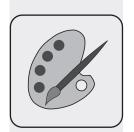


Teak



Wenge





Surfaces **HPL**

Configuration

Decorative high pressure laminate

HPL (high pressure laminate) consists of cellulose, phenol and melamine resin and is a decorative high pressure laminate for the interior design. The decorative layer of printed on or coloured paper is covered in melamine resin and forms a solid bond under high pressure and heat.

The HPL surface is characterised by a nonporous, sealed melamine resin surface. This characteristic recommends the use of this material in areas in which a good cleanability is required. It was proved by extensive clinical tests that bacteria and fungus populations have a high die off ratio on HPL surfaces. The good hygenic characteristics of the HPL surface is supplemented by its antistatic effect, by which no dust is attracted or bound. The pigments of the decorative paper used to produce HPL do not include cadmium nor any other heavy metal compounds. The generally good surface characteristics lead to the fact that HPL is categorised as physiologically harmless in contact with food, therefore it is recommended for the use as surface finish of kitchen worktops, tables or frequently used heavy-duty doors.

Approved according to DIN EN 438 and DIN 16926 the surfaces reach a relatively high abrasion, scratch and shock resistance. Colour, design and pattern result in the desired optical effect and need to be chosen very carefully and, according to the manufacturer, be described accurately.

Chosen can be from so called unicolour decors, photographic technically produced wood reproductions and HPL (genuine wood configuration). Additionally special effect surfaces with metallic coating and special patterns have to be mentioned.

Depending on the manufacturer different HPL thicknesses have to be taken into account and have to be stated at the time of the order.

Schörghuber doors, wooden wrap-around, wooden block and on request solid wooden frames can be coated with the collection of leading HPL manufacturers such as Resopal, Perstorp, Duropal, Thermopal, Max-Schichtstoffe, Abet-Laminati, Getalit, etc.

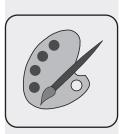
Schörghuber Wet Room Door sets, which are usually exposed to steam and splash water, are generally manufactured on the basis of plastic material and coated with an at least 0,8 mm thick HPL layer.

Due to new processing methods also continuously manufactured high pressure laminates (CPL) can be processed as top layer, whereas the highly stressable characteristics of the 0,8 mm thick HPL surface can not be reached due to the thickness of just 0,4 mm.

The selection and the individual technical details of the HPL required for the building project have to be gathered by the planner from the current collections and technical descriptions of the individual manufacturer. Hereby special attention has to be paid to the availability and especially the required formats of the storage programs and door collections.

Due to the actuality, samples have to be requested from the individual manufacturer.



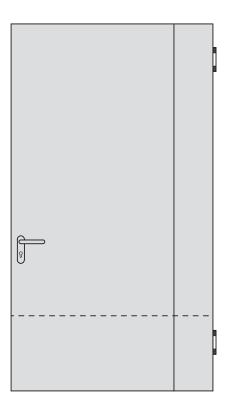


Surfaces **HPL**Configuration

length.

aces 10.3

HPL sheets in door format are availabe in delimited dimensions. Therefore it might be necessary to abut the sheets for large door set surfaces. The butt joint can run vertically or horizontally on the door leaf surface. For high door sets it might even be necessary to abut the surface material in

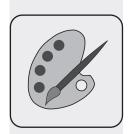


The door leaf formats of leading HPL manufacturers are:

Resopal	2180 x 915 mm 2180 x 1020 mm 2180 x 1320 mm
Formica	2150 x 950 mm 2150 x 1290 mm 2150 x 1050 mm
Duropal	2150 x 915 mm 2150 x 950 mm 2150 x 1020 mm 2150 x 1300 mm
Getalit	2140 x 1050 mm

Some HPL manufacturers offer HPL sheets in oversizes which exeed the door formats. Due to the fact that this depends on the manufacturer as well as the surface and its pattern it is recommended to contact the factory. It is especially recommended for questions concerning availability, production times and prices of nonstandard dimensions.





Surfaces **CPL**

Configuration

CPL (Continious Pressing Laminate) has just as HPL (→ chapter 10.3) a multilayer structure. The

10.4

Depending on the required material thickness and quality the according number of layers of melamine resin impregnated paper are pressed together.

Furthermore CPL is usually thinner (0,15 – 0,4 mm) than HPL with 0,6 to 1,2 mm.

main difference is the different manufacturing process for both. Whereas HPL is produced synchronised, the production of CPL is continuously, using a throughput moulding press.

The mechanical properties (especially scratch resistance and resistance to surface abrasion) are tested and classified according to EN 438. Schörghuber only uses CPL with the reference number 3 according to EN 438 with a material thickness of 0,3 mm.

CPL is used particularly as an inexpensive alternative to veneered, HPL coated or colour coated surface finishes.

Schörghuber offers an extensive range of different wood decors and uni colours. The current decors and colours can be requested from our sales force.





10.5



Surfaces

Colour coating

Configuration

Individual surface

Schörghuber special doors can be fully colour-coated due to state-of-the-art technology. Hereby the surface finish covers the whole door set, including optional glazing crossbars, door leaf edges and the wooden frames.

The range of colours is based on the most popular colour schemes RAL or NCS. Due to newest computer-aided processes the surfaces of provided samples can be measured and spectroscopic analysed in order to meet the exact colour tone requested.

The basis for a smooth surface and fundament for following coating finishes is a undercoating foil made of melamine resin.

On site finish

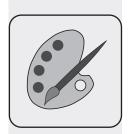
In order to provide a good basis for a specialist to carry out the surface finishing, on site coating or the applying of veneer or HPL, the top layer of Schörghuber special doors is by default covered with an undercoating foil .

This enables the specialist/fabricator to complete the finish on site with commercial lacquer systems. For the surface finish only permanent PVC laquer systems are to be used. In any case the factory coating has to be grinded and primed if necessary. Drawdowns have to be carried out on site.

The processing directions in chapter 10.6 have to be followed.







Surfaces 10.6

Processing directions

On site coating of Fire-Protection-Doors

In order to enable an on site treatment of the door leaf surface, Fire-Protection-Doors are finished with either undercoating foil (standard for on site coating) or horizontal veneer. Before the door leaf can be finished with either veneer or any other coating a professional cleaning grinding has to be applied.

The coating can be applied with a commonly used glue mixture.

- Urea resin glue
- Casein glue
- Contact adhesive

Pressure 2,5 to 4,5 kg / cm²

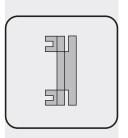
Time about 3,5 minutes

Temperature 80° to 100° C

Attention!

- a) The door leaf has to be removed from the press as soon as the glue joint is hardened (see pressure time), otherwise the fire protective component can be damaged.
- b) No liability can be accepted for damages that occure due to departing from the veneer manual or improper storage of the door leaf before and after the veneer was applied, as well as damages due to the improper unmounting or remounting of the fittings.
- c) Such on site operations are to be carried out exclusively by a specialist (carpenter/interior contractor).

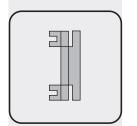




Hinge systems Content

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11.2	Configurations, field of applications, loading force	1038 - 1042
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11.4	Overview of hinges for steel frames	1045 - 1052
11.5	Overview of hinges for wooden frames	1053 - 1057
11.6	Variant hinges	1058 - 1062
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General information

Requirements according to DIN EN 1935

(hinges, requirements and test procedures)

Function

Hinges are the mechanical bond between door leaf and frame. They are inevitable for the perfect function (opening and closing) of a door. In order to guarantee the functionality of door sets the right choice of hinges is significant. Hereby the following criteria are important:

Requirements of the hinge construction

In regard of the planned field of application of the door set (e.g. hospitals, schools and universities, kindergartens, nursing and foster homes, public administrations, barracks, public and private housebuilding) and the door's function (Fire- and Smoke-Protection, Sound-Insulation, Burglar-Protection, Wet Room, etc.) the choice of right dimensioned hinges is important. Concerning this matter, the testing of hinges for Fire- and Smoke-Protection-Doors, which demands 200.000 opening cycles (long-term durability test) in order to simulate a service life of 20 years, should be mentioned.

According to DIN EN 1935 the CE label for hinges on Fire- and Smoke-Protection-Doors, as well as doors for Escape and rescue routes are mandatory.

Furthermore hinges for Burglar-Protection-Doors are tested under special static and dynamic stress. Rebated extremely sound-deadening doors (Rw,P ≥ 42 dB) require the use of special hinges (FD hinges), in order to house the door leaf rebate gasket. Wet Room Doors have to be, due to their field of application, equipped with stainless steel hinges.

Load capacity and loading force

The load capacity of hinges does not only depend on the door leaf weight, but on different factors of influence as for example the door leaf width and height (balance point and leverage) as well as the opening frequence, hinge alignment, type of material, the fastening of the hinges and also the door closer and doorstop. The listed stress factors can clearly increase the stress on the hinges. Therefore an adequate weight reserve of about 20 kg with regard to the loading force stated by the hinge manufacturer is advisable and already taken into account for in the following table. → Chapter 11.2

Surface range

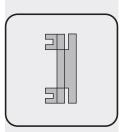
The various surface configurations allow the planner to match the different parts and pieces of the fittings.

- Galvanized
- Matt brass-plated
- Matt nickel-plated
- Brass-plated (polished)
- Matt chrome-plated
- Stainless steel
- Bronzed
- RAL-coloured

- Dark bronzed
- Plastic-coated

For special surface coatings the corrosion protection may be limited.





General information

Configurations and technical terms

Brand, configuration and size

Schörghuber by default uses 3-parted hinges of leading hinge manufacturers with special crank dimensions.

According to the brand and the hinge type, different surface configurations as well as constructive and optical differences are possible. Therefore hinge configurations with visible ball bearings or with concealed ball bearing or friction bearing technic are to be mentioned.

The standard height of the hinges at Schörghuber is 160 mm. Depending on their function, hinges can on request also be chosen with a height of 100 mm or 120 mm.

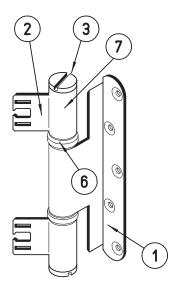
On request the hinges can be equipped with a security pin, which prevents the door from being unhinged when shut.

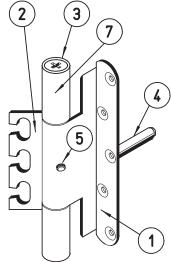
If requested, hinges can be equipped with suspension bolts in order to stabilize the hinge tab.

3D hinge base

In order to be able to perfectly adjust the door leafs in the door frames, all hinges for wooden frames are by default delivered in combination with 3D adjustable hinge bases. Through this an exact positioning of the door leaf in the door frame in all directions (sideways, in height and depth) is possible.

Technical terms



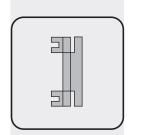


- ① Door leaf part
- 2 Door frame part
- 3 Hinge stud with stud screw, possibly with decorative crown

11.1

- Suspension bolt (trunnion)
- Security pin
- 6 Ball bearing
- 7 Hinge roll



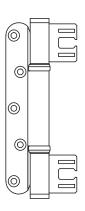


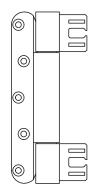
Configurations

Examples

VS 8939 (F) VS 8949 (S)

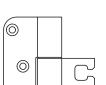






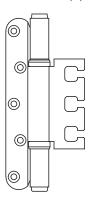
VSX 7939 (F) VSX 7749 (S)

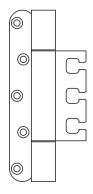


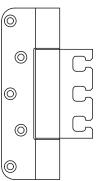


VX 7728/160-FORM

11.2



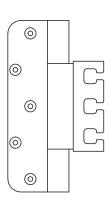


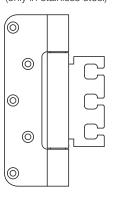


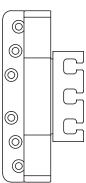
BSW 060-21 / 070-21 (F)* BSW 060-22 / 070-22 (S)*

VIELER ER.TB 160.335.F (F)* VIELER ER.TB 160.331.S (S)* (only in stainless steel)

HEWI B 8107.160 VX (F)* HEWI B 9107.160 VX (S)* (only plastic-coated)



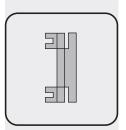








(F) rebated (S) unrebated



Configurations

Application areas/steel frames

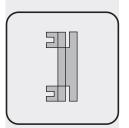
						Door function											
Hinge description for steel frames	T 30	T 60	1 90	RS	SD 32	SD 37	SD 42	SD 45	SD 48	SD 50	WK 2	WK 3	PB	10	IN	٧	
VS 8939 (F), (D) VS 8949 (S)	О			О	0	О									0	0	
VN 8938 (F) VN 8948 (S)	0			0	О	О									0	О	
VSX 7939/160 (F), (D)	0	0		0	О	О					О	0	0		0	0	
VSX 7729/160 (S)	0	0		0	0	0	0	0			0	0	0		0	0	
VX 7939/100 (F), (D) VX 7729/100 (S)	0			0	0	0									0	0	
VX 7939/120 (F), (D) VX 7729/120 (S)	0			0	О	О	О	О							0	0	
VX 7939/160 /- 4 N (F), (D)	0	0	0	0	О	0					0	0	0	0	0	0	
VX 7729/160 /- 4 N (S)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
VX 7939/160 /- 4 N FD for rebate gasket	О			О			0	0	0	0	0	0					
VX 7728/160-FORM	0			0	0											0	
BSW 060-21 VX (F), (D)	0	0	0	0	0	0					0	0	0	0	0	0	
BSW 060-22 VX (S)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BSW 060-21 VX DF (F) for rebate gasket	О			О			О	О	0	0	0	0	0				
VIELER ER.TB 160.337.F VX (F), (D)	0	0	0	0	О	О					0	0	0		0	О	
VIELER ER.TB 160.332.S VX (S)	0	0	0	0	0	0	0	0			0	0	0		0	0	
SIMONS Globus STGR 3D in combination with round-shaped frame 29304/29804	0			0	0	0									0	0	
HEWI B 8107.160 VX (F), (D)	0	0	0	0	О	О					0	0	0	0	0	0	
HEWI B 9107.160 VX (S)	0	О	О	0	О	О	О	О			0	0	0	0	0	0	
Spring hinge FHX 7939/160 (F),(D) in solid wall FHX 7729/160 (S)	О				О						0					0	

- (F) rebated
- (S) unrebated
- (D) double-rebated

Note

The choice of the hinges has to result from the calculation of the door leaf weight and the door leaf dimensions.





Configurations

Field of application/wooden frames

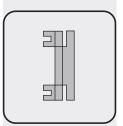
							Dod	or fu	unction										
Hinge description for wood frames	T 30	T 60	1 90	RS	SD 32	SD 37	SD 42	SD 45	SD 48	SD 50	WK 2	WK 3	PB	DT	IN	VT			
VSX 7939/160 (F), (D)	0	0		0	О	0					0	0	0		0	0			
VSX 7729/160 (S)	0	0		0	0	0	0	0			0	0	0		0	0			
VX 7939/100 (F), (D) VX 7729/100 (S)	0			0	0	0									0	0			
VX 7939/120 (F), (D) VX 7729/120 (S)	0			0	0	0	О	О							0	0			
VX 7939/160 /- 4 N (F), (D)	0	0	0	0	0	0					0	0	0	0	0	0			
VX 7729/160 /- 4 N (S)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
VX 7939/160 /- 4 N FD for rebate gasket	О			О			О	О	0	О	0	0							
VX 7728/160-FORM	0			О	0											0			
BSW 060-21 VX (F), (D)	0	0	0	0	0	0					0	0	0	0	0	0			
BSW 060-22 VX (S)	0	0	0	0	О	0	0	0			0	0	0	0	0	0			
BSW 060-21 VX DF (F) for rebate gasket	0			О			О	О	0	0	0	0	0						
VIELER ER.TB 160.337.F VX (F), (D)	0	0	0	0	0	0					0	0	0		0	0			
VIELER ER.TB 160.332.S VX (S)	0	0	0	0	0	0	0	0			0	0	0		0	0			
HEWI B 8107.160 VX (F), (D)	0	О	О	О	О	О					О	О	0	0	0	0			
HEWI B 9107.160 VX (S)	0	0	0	0	0	0	0	0			0	0	0	0	0	0			
Spring hinge FHX 7939/160 (F),(D) in solid wall FHX 7729/160 (S)	О				О						О					0			

- (F) rebated
- (S) unrebated
- (D) double-rebated

Note:

The choice of the hinges has to result from the calculation of the door leaf weight and the door leaf dimensions.





Configurations

Loading force/steel frames

	Loading force in kg (2 hinges)											
Hinge description	corresponding to 1000 mm TAB/TFM											
for steel frames	70	80	90	100	120	140	180	200	250	300		
VS 8939 (F) VS 8949 (S)												
VN 8938 (F) VN 8948 (S)												
VSX 7939/160 (F) VSX 7729/160 (S)												
VX 7939/100 (F) VX 7729/100 (S)												
VX 7939/120 (F) VX 7729/120 (S)												
VX 7939/160 (F) 3,5 mm VX 7729/160 (S) 3,5 mm												
VX 7939/160-4 N (F) VX 7729/160-4 N (S)												
VX 7728/160-FORM												
BSW 060-21 VX (F) BSW 060-22 VX (S)												
VIELER ER.TB 160.337.F VX (F) VIELER ER.TB 160.332.S VX (S)												
SIMONS Globus STGR 3D in combination with round-shaped frame 29304/29804												
HEWI B 8107.160 VX (F) HEWI B 9107.160 VX (S)												
Spring hinge FHX 7939/160 (F) in solid wall FHX 7729/160 (S)												

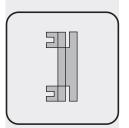
(F)rebated (S)unrebated

Note

The choice of the hinges has to result from the calculation of the door leaf weight and the door leaf dimensions.

If a 3rd hinge is inserted the declared load values (loading force) increase by approximately 10 %. From a door leaf width of 1250 mm a 3rd hinge has to be installed. For unfavourable geometry and correspondingly high weight even four hinges are necessary.





Configurations

Loading force/wooden frames

	Loading force in kg (2 hinges)										
Hinge descriptions for wooden frames	70	80	90	100	120	140	180	200	250	300	
VSX 7939/160 (F) VSX 7729/160 (S)											
VX 7939/100 (F) VX 7729/100 (S)											
VX 7939/120 (F) VX 7729/120 (S)											
VX 7939/160 (F) 3,5 mm VX 7729/160 (S) 3,5 mm											
VSX 7939/160-4 N (F) VSX 7729/160-4 N (S)											
VX 7728/160-FORM											
BSW 060-21 VX (F) BSW 060-22 VX (S)											
VIELER ER.TB 160.337.F VX (F) VIELER ER.TB 160.332.S VX (S)											
HEWI B 8107.160 VX (F) HEWI B 9107.160 VX (S)											
Spring hinge FHX 7939/160 (F) in solid wall FHX 7729/160 (S)											

(F) rebated

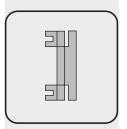
(S) unrebated

Note:

The choice of the hinges has to result from the calculation of the door leaf weight and the door leaf dimensions.

If a 3rd hinge is inserted the declared load values (loading force) increase by approximately 10%. From a door leaf wisth of 1250 mm a 3rd hinge has to be installed. If the geometry is unfavourable and the weight is accordingly high a 4th hinge is necessary.





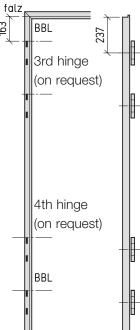
Hinge reference line

Definition

V 8600

Schörghuber Standard

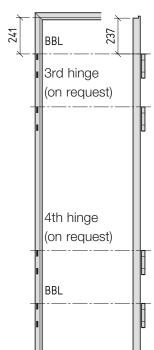
Frame rebate



V 8600

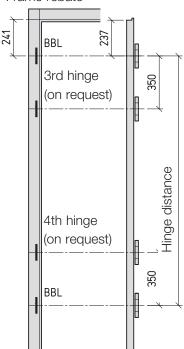
according to DIN 18111

Frame rebate



VX 7611 / VHX

Frame rebate



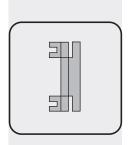
The hinge reference line (BBL) according to DIN 18268 is the defined line of a hinge in a certain distance to the top edge of the door leaf rebate, respectively the reference edge, the door frame rebate. The hinge reference line as indication of measurement is indipendent of the hinge type. For differing measures as well as for the delivery of doors with a frame provided by the customer, the creation of an exact dimensional measurement form and it's attachment to the order form is inevitable (see chapter 3.7).

If an additional 3rd hinge is inserted (350 mm under the top hinge, based on the upper hinge reference line) the declared load capacity (loading force) increases by approx. 10%.

Reference dimensions									
Clear opening from up to	Hinge distance								
1858 - 1982 mm	1310 mm*								
1983 - 2108 mm	1435 mm								
2109 - 2233 mm	1560 mm								
2234 - 2358 mm	1685 mm								
2359 - 2483 mm	1810 mm								
2484 - 2608 mm	1935 mm								
2609 - 2733 mm	2060 mm								
2734 - 2858 mm	2185 mm								
2859 - 2983 mm	2310 mm								
2984 - 3108 mm	2435 mm								
3109 - 3233 mm	2560 mm								
3234 - 3358 mm	2685 mm								
3359 - 3483 mm	2810 mm								

* differing from DIN 18101

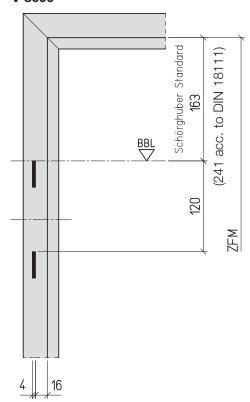




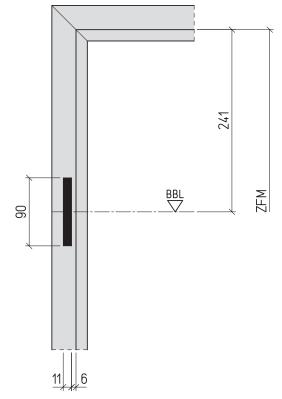
Hinge reference line

Hinge bases

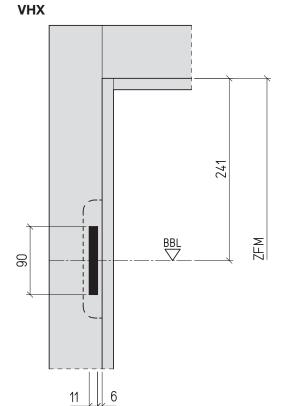
Steel frame V 8600



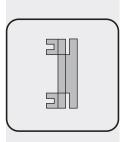
Steel frame VX 7611 3D



Wooden frame



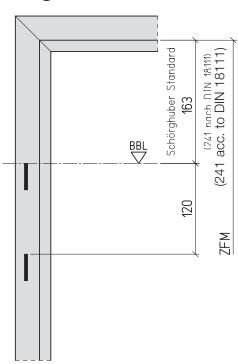




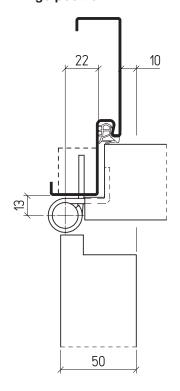
Overview

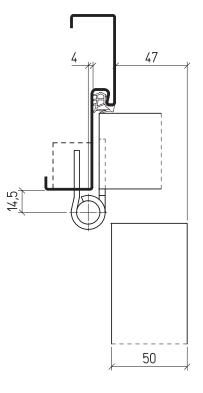
Steel frames

Hinge base V 8600

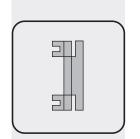


Hinge position









Overview

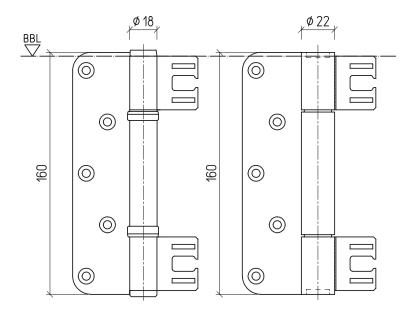
Steel frames with V 8600 hinge bases

Rebated door leaf

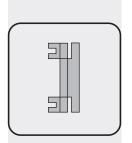
SIMONS FORM VS 8939 SIMONS VN 8938/160

Unrebated door leaf or unrebated with jamb rebate

SIMONS FORM VS 8949 SIMONS VN 8948/160



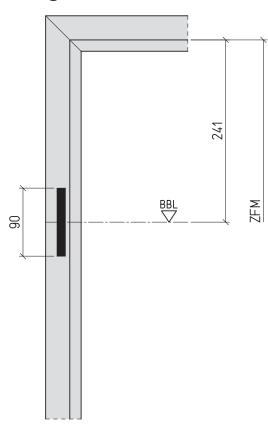




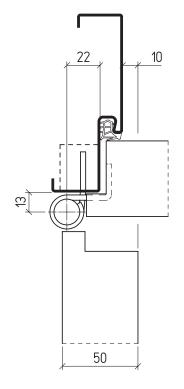
Overview

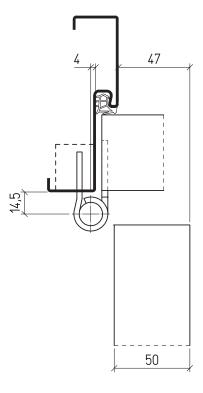
Steel frames

Hinge base VX 7611 3D

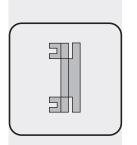


Hinge position





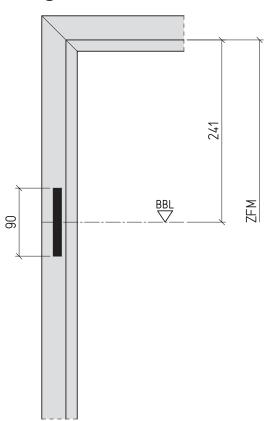




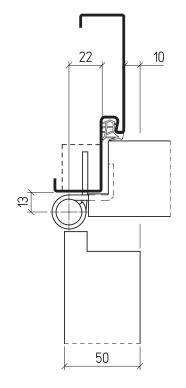
Overview

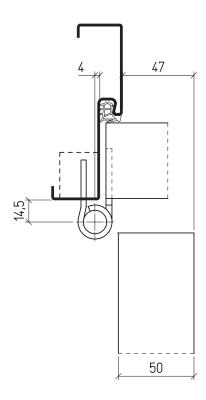
Steel frames

Hinge base VX 7611 3D

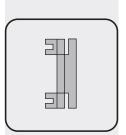


Hinge position









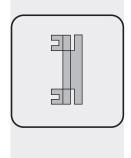
Overview

 \odot

Steel frames with VX 7611 3D hinge bases

 \bigcirc





Overview

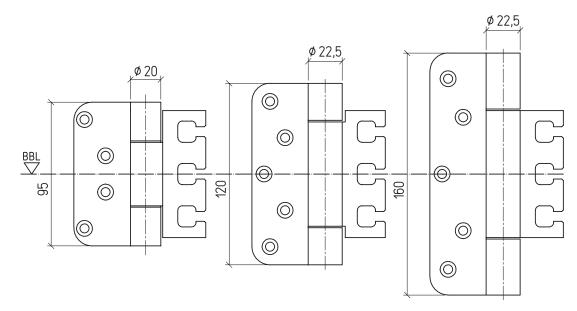
Steel frames with VX 7611 3D hinge bases

Rebated door leaf

SIMONS VX 7939/100 SIMONS VX 7939/160 SIMONS VX 7939/120 Ø 22,5 0 Ø 20 0 \bigcirc 0 \bigcirc \bigcirc BBL \bigoplus \bigcirc 120 160 \bigcirc \bigcirc \bigcirc \bigcirc

Unrebated door leaf or unrebated with jamb rebate

SIMONS VX 7729/100 SIMONS VX 7729/120 SIMONS VX 7729/160





Overview

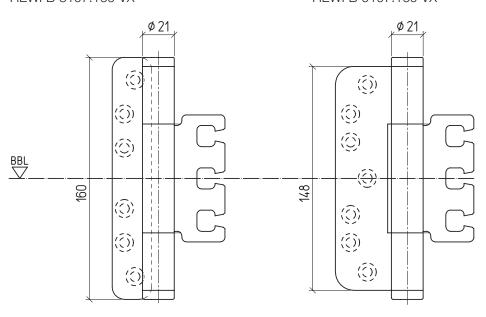
Steel frames with VX 7611 3D hinge bases

Rebated door leaf

HEWI B 8107.160 VX

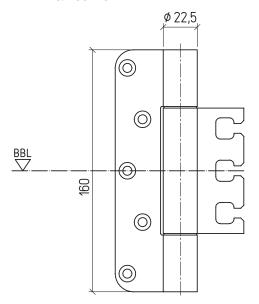
Unrebated door leaf or unrebated with jamb rebate

HEWI B 9107.160 VX

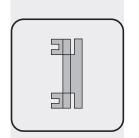


Unrebated door leaf with jamb rebate

VX 7728/160-FORM







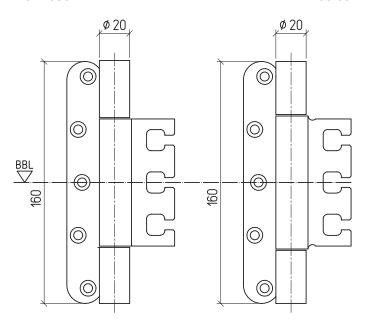
Overview

Steel frames with VX 7611 3D hinge bases

Rebated door leaf

BSW 060-21 VX

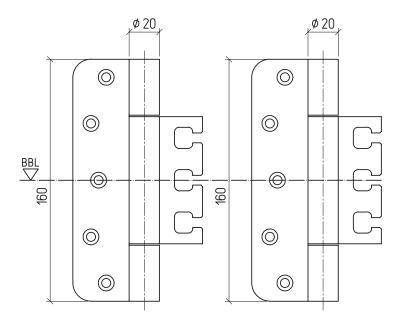
VIELER ER.TB 160.337.F VX



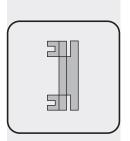
Unrebated door leaf with jamb rebate

BSW 060-22 VX

VIELER ER.TB 160.332.S VX



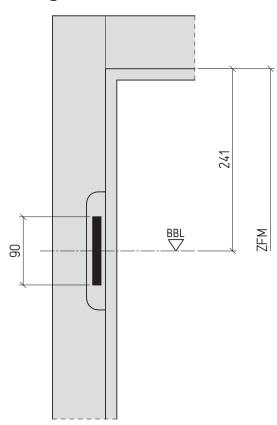




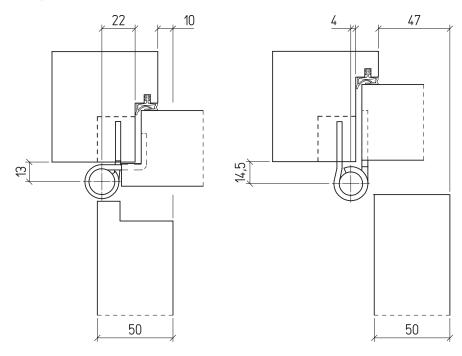
Overview

Wooden frames

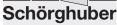
Hinge base VHX

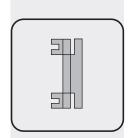


Hinge position



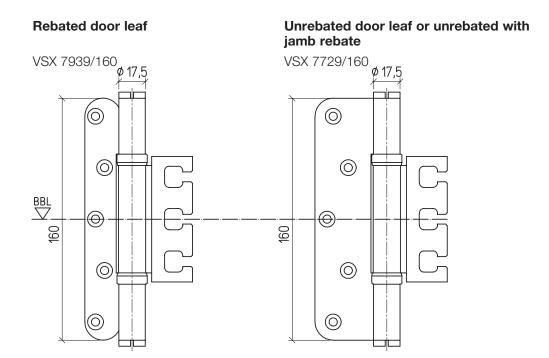






Overview

Wooden frames with VHX hinge bases



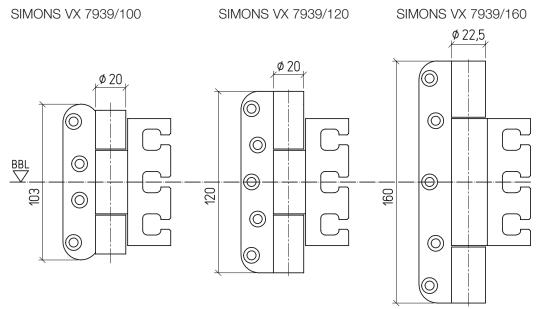


Hinge systems

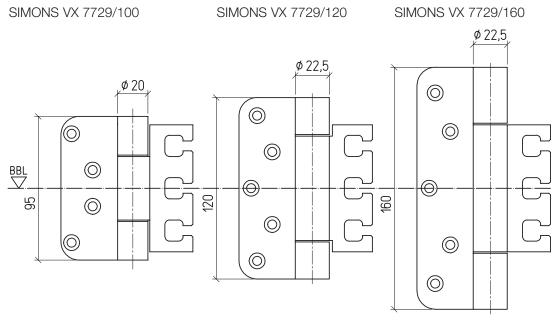
Overview

Wooden frames with VHX hinge base

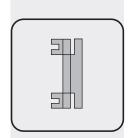
Rebated door leaf



Unrebated door leaf with jamb rebate







Overview

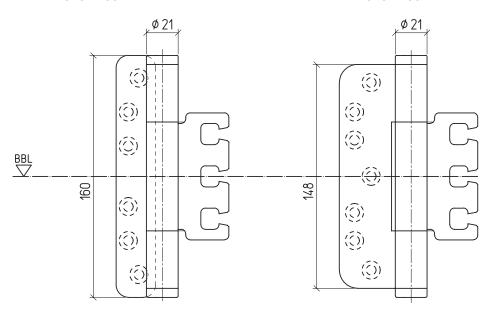
Wooden frames with VHX hinge base

Rebated door leaf

HEWI B 8107.160 VX

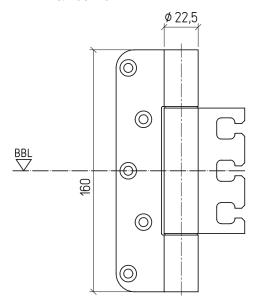
Unrebated door leaf or unrebated with jamb rebate

HEWI B 9107.160 VX

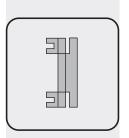


Unrebated door leaf with jamb rebate

VX 7728/160-FORM







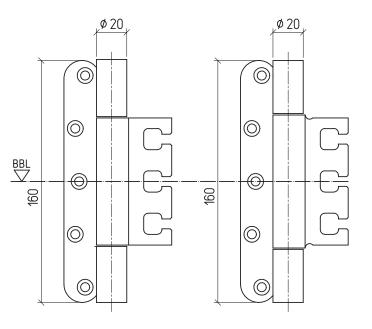
Overview

Wooden frames with VHX hinge base

Rebated door leaf

BSW 060-21 VX

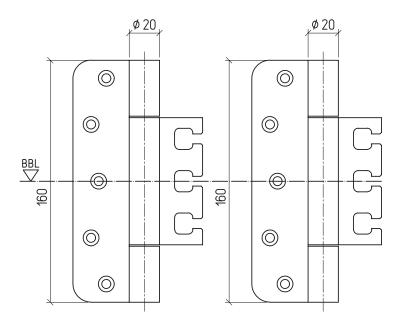
VIELER ER.TB 160.337.F VX



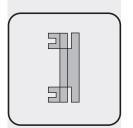
Unrebated door leaf or unrebated with jamb rebate

BSW 060-22 VX

VIELER ER.TB 160.332.S VX







Variant hinges

Application areas

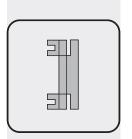
For lightweight doors (door leaf weight \leq 80 kg and door rebate width \leq 1083 mm) also the hinge system Variant-V is available. A 3D adjustability is not available for this hinge system.

Hinge descriptions	Door function							
for steel frames	T 30	RS	SD 32	SD 37	۷T			
V 8037 WF (F)	0	0	0	0	0			
V 8087 WF (S)	0	0	0	O	0			

Hinge descriptions	Door function							
for wooden frames	T 30	RS	SD 32	SD 37	VT			
V 4437 WF (F)	0	0	0	0	0			
V 4487 WF (S)	0	0	0	0	0			

- (F) rebated
- (S) unrebated

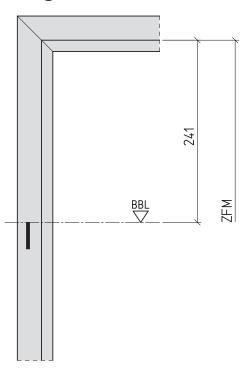




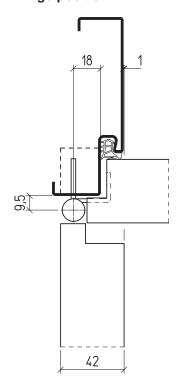
Variant hinges

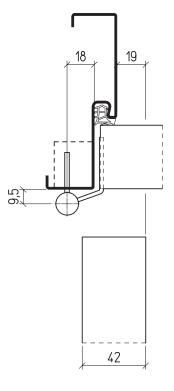
Steel frames

Hinge base V 8600



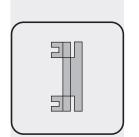
Hinge position









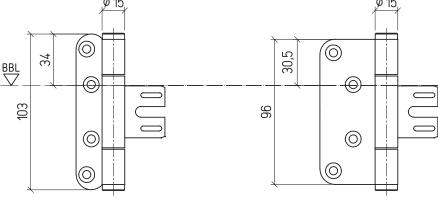


Variant hinges

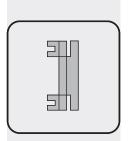
Steel frames

Variant V 8037 WF 0

Variant V 8087 WF



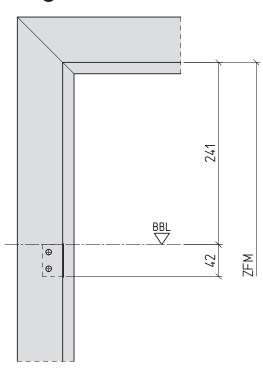




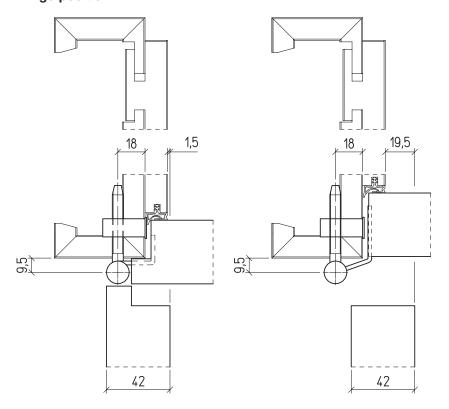
Variant hinges

Wooden frames

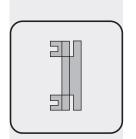
Hinge base V 3604



Hinge position





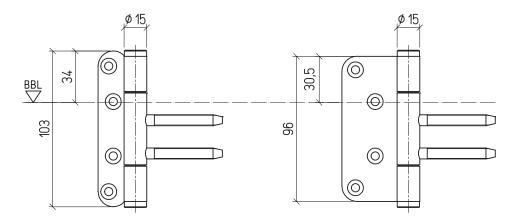


Variant hinges

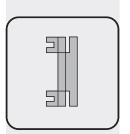
Wooden frames

Variant V 4437 WF

Variant V 4487 WF







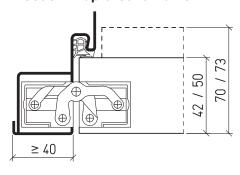
Special hinges

Concealed hinges

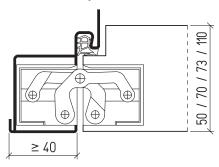
Meeting the demand of the design trend "concealed hinges", Schörghuber offers a variety of high-quality concealed hinges for unrebated doors. For both heavy-duty doors as well as for Fire- and Smoke-Protection-Doors with a door weight of up to 300 kg various concealed hinge versions for steel frames, wooden wrap-around, wooden block and solid wooden frames are available.

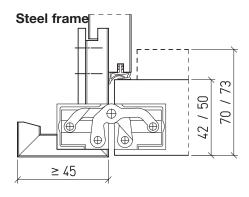
Creatively particularly interesting is the option to completely cover both door leaf and connecting flush fixed side panels on pull side with glass panes or mirrors or other thin additional panelings, without interrupting the visual appearance with visible hinges or hinge bases. The new concealed hinge type DX 180 makes it possible.

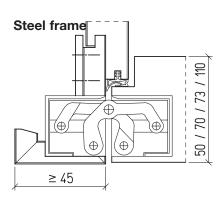
Wooden wrap-around frame



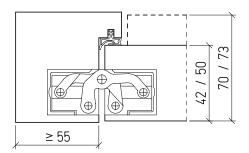
Wooden wrap-around frame



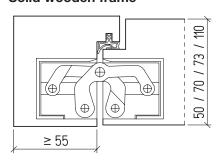




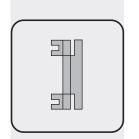
Solid wooden frame



Solid wooden frame





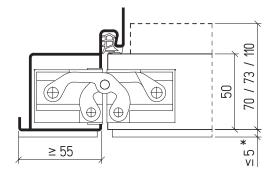


Special hinges

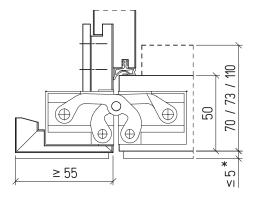
Concealed hinges

Pivota DX 180 for door leafs with additional paneling on the pull side

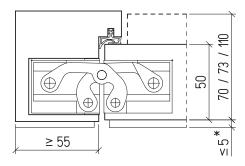
Steel frame



Wooden wrap-around frame

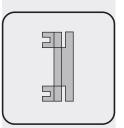


Solid wooden frame



* thicker paneling with according recess may be possible, please seek technical clarification.





Hinge systems **Special hinges**

Concealed hinges

Application area

Door leaf thickness/edge	TD 42	2 mm	TD 50	0 mm	TD 7	0 mm	TD 7	3 mm	TD 11	0 mm
Hinge description	Unrebated		Unrebated	Unrebated with jamb rebate	Unrebated with jamb rebate	Unrebated with jamb rebate	Unrebated with jamb rebate	Unrebated with jamb rebate		Unrebated with jamb rebate
Pivota-DX 100 3D	0		0	О	0	0	0	О		
Pivota-DX 200 3D			0		0		0			О
Pivota-DX 300 3D			0		0		0			О
Pivota-DX 180 3D			0		0		0			0
SIMONS Tectus 510 3D			0		О		0			O

Technical facts

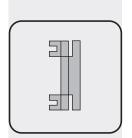
Hinge description	T 30	Т 90	RS SD VT	Bearing force ¹⁾	max. door leaf width	Opening angle	3D Adju Sideways + Height	stability Pressure
Pivota-DX 100 3D	0	О	0	100 kg	1100 mm	≤ 180°	± 3 mm	± 1 mm
Pivota-DX 200 3D	0	0	0	200 kg	~1250 mm	≤ 180°	± 3 mm	± 1 mm
Pivota-DX 300 3D	0	0	0	300 kg	~1500 mm	≤ 180°	± 3 mm	± 1 mm
Pivota-DX 180 3D	0		0	180 kg	1100 mm	≤ 180°	± 3 mm	± 1 mm
SIMONS Tectus 510 3D	0		0	100 kg	1100 mm	≤ 180°	± 3 mm	± 1 mm

¹⁾ depending on the door format (the listed weight is valid for TAB/TFM of 1000 mm)

Note

- If a 3rd or 4th hinge is used the hinge distance to the top/bottom hinge is 500 mm or in central position.
- During the installation it is crucial that the alignment is very exact.





Special hinges

Spring hinges

As an alternative to surface-mounted and floor-mounted door closers, Fire-Protection-Doors and Smoke-Protection-Flaps (frame rebate dimension \leq 966 x 966 mm) can be equipped with a spring hinge and a construction hinge. These hinges are not permitted in combination with Smoke-Protection-Doors.

Possible field of application

Spring hinges can be used under the following circumstances:

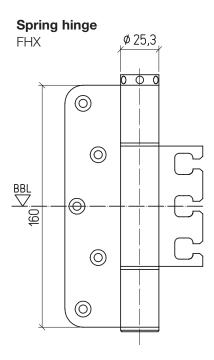
- Solid core door (without vision panel)
- Maximum door leaf weight of 80 kg
- Frame installation in solid walls
- Unrebated and rebated edge configuration
- In combination with steel frames and wooden frames

The combination of a spring hinge and an electrical door opener is not allowed, due to the fact that the door leaf shuts unregulated (no shock absorbing action) and can therefore in the long-run damage the electrical opening mechanism.

An exception to this rule is the use of a electrical door opener in combination with a spring hinge on an inactive leaf (2-leaf door set).

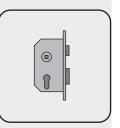
Especially in public buildings where particularly high stresses due to high opening frequences and other straints occur the use of spring hinges is not recommended.

Spring hinges are available galvanised, matt nickel-plated, chrome-plated and RAL-coated.



The spring hinge is adjustable through the tension ring. The fixation is possible through the catch pin.



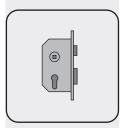


Locks

12 Content Page

12.1	General information	1068 - 1069
12.2	DIN lock	1070
12.3	Narrow style lock	1071
12.4	Radiation-Protection lock	1072
12.5	Multiple bolting devices	1073 - 1082
12.6	Concealed shot-bolt lock	1083 - 1084
12.7	Self-bolting panic locks	1085 - 1095
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12.11	Special locks	1103





According to DIN 18251 and DIN 18250 respectively DIN EIN 12209

General information

DIN 18251 / DIN 18250

Function

For catching and bolting of doors in the frame, mortise locks with latch and bolt are used. The latch keeps the door shut, while the bolt, when in locked position, prevents the unauthorised entry. Depending on the door function and field of application different lock configurations according to DIN 18251 (mortise locks for doors) and DIN 18250 (mortise locks for fire protection closures) are used, they can be equipped with additional functions, such as panic functions

Locks for the use in Fire- and Smoke-Protection-Doors underlie a special test and control code, which is regulated in DIN 18250, during their production. These locks are permanently labeled on the backset with the compliance label (Ü), corporate mark and type, production year as well as if applicable special function as for example panic function.

In order to assure the intended use the right combination of approved fittings (e.g. key and cylinder), as well as accessories (e.g. strike plate) is needed for the installation.

Profile cylinder lock (PZ)

Prepared for the installation of profile cylinders according to DIN 18252 (locking cylinders for door locks), the PZ-lock with profile cylinder (according to DIN 18254) is the standard for todays heavy-duty doors. By turning the key once or twice the bolt is locked. Optionally many locks can also be prepared for round- and oval-shaped cylinders.

Warded lock (BB)

Apartment doors are usually equipped with warded locks they can be locked in either one or two turns and with various key shapes. If Fire-Protection-Doors with BB-perforation are requested, PZ-locks with special warded lock insert are used. the use in Smoke-Protection-Doors is not allowed and not recommended in highly sound-deadening doors.

Lock for bathroom doors (WC)

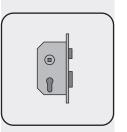
Locks for bathroom doors do only need to be turned once to lock the door with a spindle.

DIN EN 12209

DIN EN 12209 defines requirements and test procedures for the long-term durability test, stability, protection effect and the mode of action of mechanically operated locks and their strike plates for the European market, which are inserted in doors, French doors and entrance doors.

If locks and strike plates are to be inserted in Fire-Protection- and/or Smoke-Protection-Doors additional characteristics are necessary in order to meet the basic requirements "safety in the case of fire", either independently or as a part of a complete door set. In appendix A additional requirements for locks and strike plates for Fire-Protection- and/or Smoke-Protection-Doors are defined.





According to DIN 18251 and DIN 18250

Requirements and additional functions

Requirements

Locks of **class 1** or **class 2** are inserted in doors with low or medium requirements and quality. The medium-heavy interior door lock **class 3** is predominantly used for heavy-duty doors. Locks of **class 3** need to pass a long-term durability test with 200.000 operations of the latch function and 50.000 operations of the bolt function.

All Schörghuber special doors are equipped with locks of at least class 3.

Latch function (W)

In order to be able to retract the latch with the key (without handle operation), locks with so called **latch function** are used.

Especially for apartment entrance doors with one-sided handle (knob/lever combination) the unauthorised entering, while not bolted, can be prevented.

Narrow style locks

For doors with narrow friezes (< 120 mm), as for example solid wood framed doors, **narrow style locks** according to DIN 18251 II are used. Small backset and rear backset dimensions allow for small lock casing depths. Round rosettes, oval rosettes or narrow long shilds are possible to be mounted.

Panic locks

Doors in the route of escape ways are usually equipped with **panic locks**. These locks ensure that even locked doors can be opened with the use of just one hand movement, either by using the dooor lever or the panic push bar. During the planning of these doors the escape direction as well as the position, amongst other things, have to taken into consideration.

Self-bolting panic locks

In order to meet the security requirements, according to the type and use of the building, **self-bolting panic locks** are a suitable option. These locks, often used in apartment interior doors or escape doors, automatically pre-lock the bolt either by activating a supporting latch or a special mechanism on the main latch when the door is being shut.

Multiple bolting device

Doors with burglar-protection function, according to their resistance class (WK 2 or WK 3) are equipped with locks with **multiple bolting devices**. Besides of the bolt at the main lock, two additional bolts of the secondary locks catch and increase the attack-resisting function of the door.

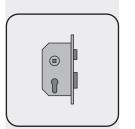
Radiation-Protection locks

Radiation-Protection-Doors with a lead equivalent value ≥ 2 mm require a **Radiation-Protection** lock with shifted follower and PZ-perforation. Therefore the backset is different on push and pull side (40/80), (40/85).

Corrosion-resistant locks

Due to the climate stress in areas with high humidity, Wet Room Doors need to be equipped with corrosion-resistant locks according to DIN EN 12209.





According to DIN 18251 and DIN 18250

Configurations and dimensions

Standard lock

Forend surface: nickel-silver lacquered

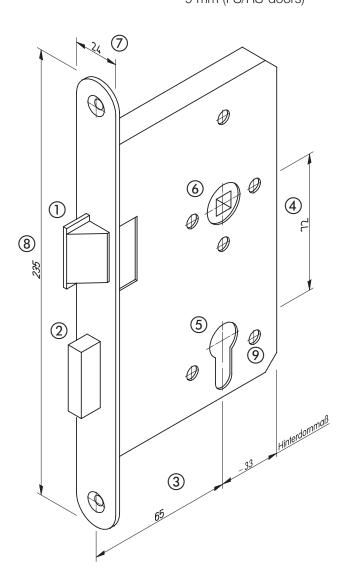
sanded stainless steel

special surfaces (e.g. brass-, gold-, bronze-plated)

Forend width: standard = 24 mm (standard rebate 20 mm)

Distance: 72 mm

Backset dimensions: 55, 65 (standard), 80, 100 Lock follower: 8 mm (heavy-duty doors) 9 mm (FS/RS-doors)



- 1 Latch
- 2 Bolt
- 3 Backset
- (4) Centre distance
- (5) PZ-perforation
- 6 Follower
- 7 Forend width
- 8 Forend length
- (9) Fixing for rosettes



12.3



Locks

Narrow style lock according to DIN 18251 part 2

Configurations and dimensions

Narrow style lock

Narrow style locks are needed for doors with extremly narrow friezes. Since the rear backset dimensions are just 15 mm, the lock casing is higher as in regular DIN locks.

Forend surface: nickel-silver lacquered

sanded stainless steel

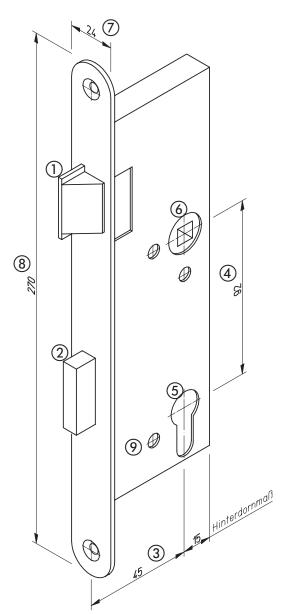
special surfaces (e.g. brass-, gold-, bronze-plated)

Forend width: standard = 24 mm

92 mm Distance:

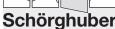
Backset dimensions: ‡ 35 mm (attend lever restraint)

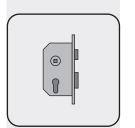
Lock follower:



- (1) Latch
- (2) Bolt
- Backset
- Centre distance
- PZ-perforation
- (6) Follower
- 7 Forend width
- 8 Forend length
- (9) Fixing for rosettes





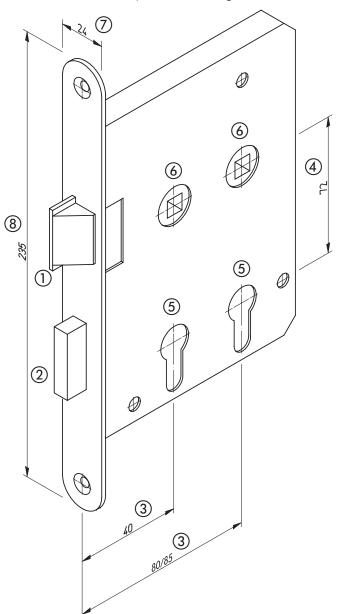


Radiation-Protection lock

According to DIN 6834

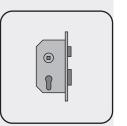
The lead inlays in Radiation-Protection-Doors can not guarantee 100% Radiation-Protection in the areas of the drillings for the handles and the keyhole. According to DIN 6834 surface defects of the lead inlay in these areas are allowed up to a lead equivalent of less than 2 mm. If the lead equivalent value is 2 mm or more every Radiation-Protection-Door must be equipped with a special lock with shifted follower and PZ-perforation. The backset measures 40/80 mm (BKS) respectively 40/85 mm (BMH).

Also available in fire protection configuration.



- 1 Latch
- (2) Bolt
- 3 Backset
- (4) Centre distance
- (5) PZ-perforation
- (6) Follower
- (7) Forend width
- 8 Forend length





Multiple bolting device

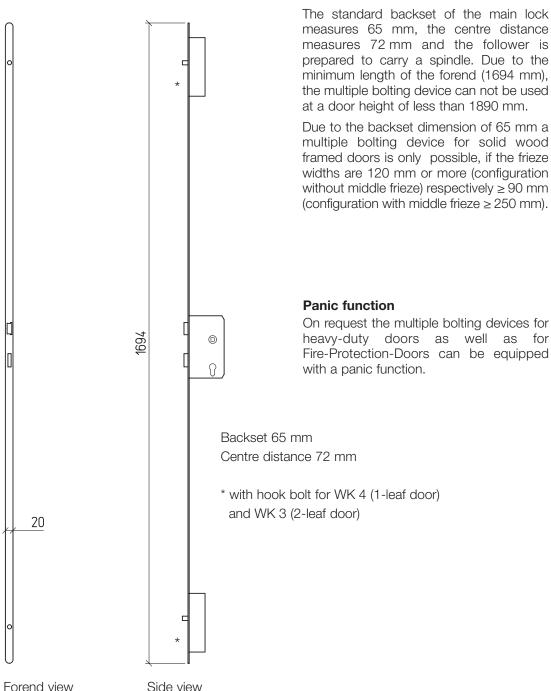
Configuration

Multiple bolting device

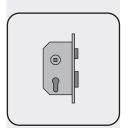
The construction of locks with a multiple bolting device is based on DIN 18250 (mortise locks with three-latch catch).

Locks with a multiple bolting device are usually used in combination with Burglar-Protection-Doors. Schörghuber doors with the resistance class WK 2 do only require locks with special security equipment, on request the locks can be equipped with a multiple bolting device.

Schörghuber 1-leaf (WK 3/WK 4) and 2-leaf (WK 2/WK 3) Burglar-Protection-Doors are by default equipped with a multiple bolting device.



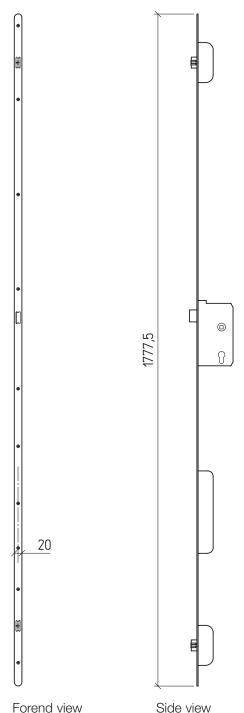




Multiple bolting device

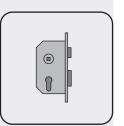
Self-bolting configuration

BKS / GU Series 21** Secury



- Automatic bolting of the deadbolt and the automatic bolt by the integrated release trigger, therefore a manual locking is unnecessary
- Distance 72 mm
- Backset 65 or 80 mm
- Approved in combination with BKS fittings according to DIN EN 1125 and DIN EN 179
- For single- and double-leaf door systems
- Panic functions
 - * Switch function B
 - * Lock necessity function C
 - * Latch function E
- Optionally the exterior lever is electrically engageable
- Optionally motor-driven openable (A-lever, 12 V DC)
- For high doors optionally move the latch bolt up by 420 mm
- Round rossettes, short and long plates useable
- Standard cylinders are sufficient, free-swing cylinder not required
- Optional round cylinder possible

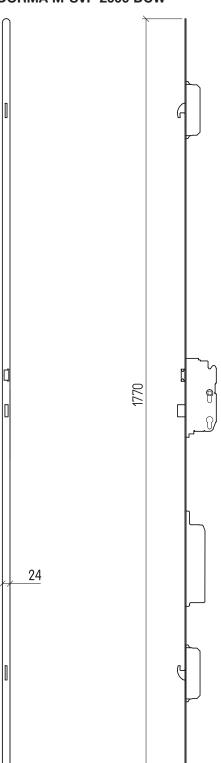




Multiple bolting device

Configuration with motor lock with panic function

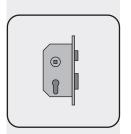
DORMA M-SVP 2000 DCW



- Sequence controlled, self-bolting panic lock
- Motor driven locking and unlocking,
 12 V DC / 24 V DC, operating current
- Unlocking time approx. 0,5 sec.
- Sequence control through integrated magnetic contact
- Suitable for the operation of revolving door drives
- Main lock with standard bolt, additional bolts with rotatable hooks
- Panic latch function E (outside with knob)
- Panic function DIN EN 179
- Distance 72 mm
- Backset 65 or 80 mm
- Round rossettes, short and long plates useable
- Free-swing cylinder required
- Permanent unlocking possible (not FS/RS)
- Day latch function (bolt remains retracted)
- Detection "door open/closed"
- External drive DCW 4-wire, with mains adapter
- External mains adapter
- Incl. 8 m connection cable



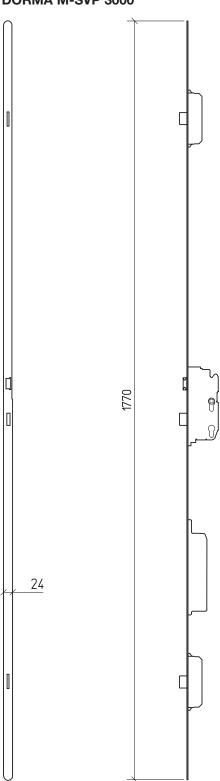
Forend view



Multiple bolting device

Configuration self-bolting panic lock motor driven unlocking

DORMA M-SVP 3000



- Sequence controlled, self-bolting panic lock
- Mechanical bolting
- Motor driven unlocking, 12 V DC, working current
- Sequence controlled through integrated magnetic contact
- Main lock with standard bolt, additional bolts with rotatable hooks
- Panic latch function E (externally with knob)
- Panic function DIN EN 179 / 1125
- Distance 72 mm
- Backset 65 or 80 mm
- Round rosettes, short and long backplates suitable
- No free-swing cylinder required
- Permanent unlocking possible (not FS/RS)
- External drive with mains adapter
- Incl. 8 m connection cable



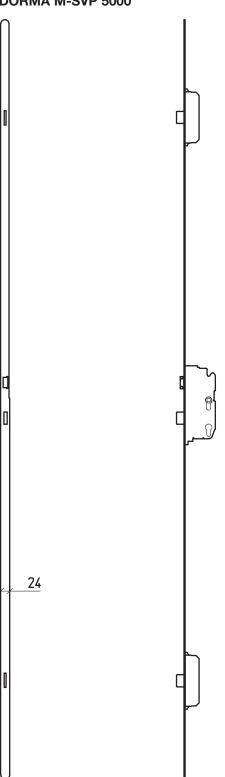
Forend view

Locks

Multiple bolting device

Configuration self-bolting panic lock

DORMA M-SVP 5000



- Sequence controlled, self-bolting panic

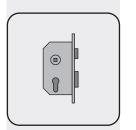
12.5

- Mechanical locking and unlocking
- Sequence controlled through integrated magnetic contact
- Main lock with standard bolt, additional bolts with rotatable hooks
- Panic latch function E (externally with
- Panic function DIN EN 179 / 1125
- Distance 72 mm
- Backset 65 or 80 mm
- Round rosettes, short and long backplates suitable
- No free-swing cylinder required



Forend view

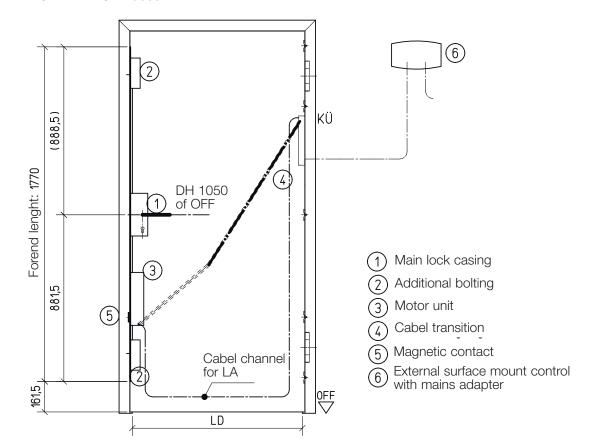




Multiple bolting device

Configuration panic motor lock

DORMA M-SVP 2000 DCW DORMA M-SVP 3000



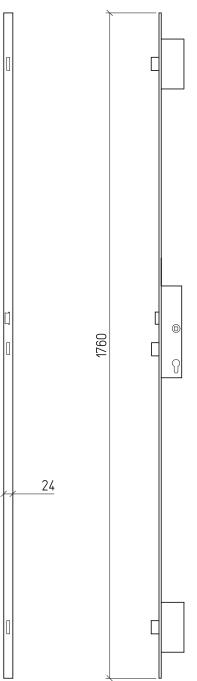


Locks

Multiple bolting device

Configuration

eff eff mechanical multiple bolting device 319

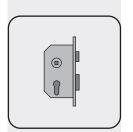


Forend view

- Mechanical multiple bolting device
- Self-bolting
- Three lock bolts with 20 mm connection each
- Panic function E (externally with knob)
- Distance 92 mm
- Backset 65 mm / 80 mm
- Forend elongation with fouth bolt for extra high doors possible
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- Only long backplates suitable
- Standard cylinder suitable
- Optional round cylinder possible



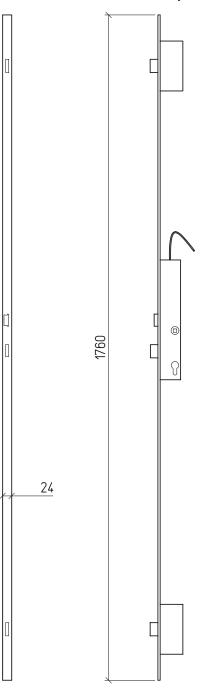




Multiple bolting device

Configuration

eff eff motor lock with multiple bolting device 519

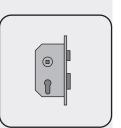


- Motor driven multiple bolting device
- Mechanically self-bolting
- Opening motor driven, 24 V DC, working current principal
- Three lock bolts with 20 mm connection each
- Panic function E (externally with knob)
- Distance 92 mm
- Backset 65 mm / 80 mm
- Forend elongation with fouth bolt for extra high doors possible
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- Only long backplates suitable
- Standard cylinder suitable
- Optional round cylinder possible
- Integrated electronics
- Additional external units required
- Detection "locked/unlocked, "door shut/open"
- Detection of lever or profil cylinder useage
- Permanent unlocking possible (not FS/RS)
- Revolving door drive control (delayed release!)
- Incl. 10 m connection cable



Forend view

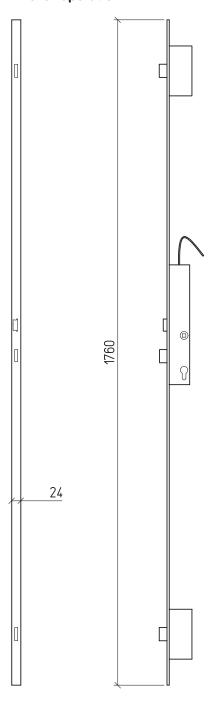
Side view



Multiple bolting device

Configuration

eff eff electric multiple bolting device 819 – Lever operation



Forend view

Side view

- Mechanical multiple bolting device
- Self-bolting
- External lever electrically engageable
- 12 or 24 V DC, working or standby current
- Three lock bolts with 20 mm connection each
- Panic function lever/lever
- Distance 92 mm
- Backset 65 mm / 80 mm
- Forend elongation with fouth bolt for extra high doors possible
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved (for use according to DIN EN 1125 the additional "E" marking is required for this lock
- Only long backplates suitable
- Standard cylinder suitable
- Optional round cylinder possible
- Integrated surveillance functions: bolt surveillance Internal and external lever usage profil cylinder usage
- Incl. 10 m connection cable

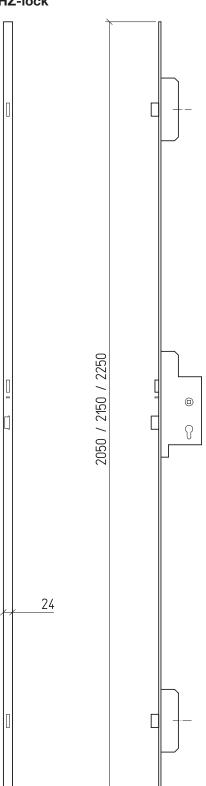




Multifunctional multiple bolting device

Configuration

HZ-lock

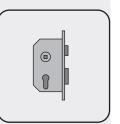


- Mechanical multiple bolting device
- Self-bolting
- 12 or 24 V DC
- External lever electronically engageable
- Three lock bolts with 20 mm connection each
- Panic function lever/lever
- Distance 72 mm
- Backset 80 mm
- In combination with approved fittings panic function according to DIN EN 179 approved
- Integrated surveillance functions: bolt surveillance Internal and external lever usage profil cylinder usage door positioning through MK
- Incl. 5 m connection cable



Forend view

Side view



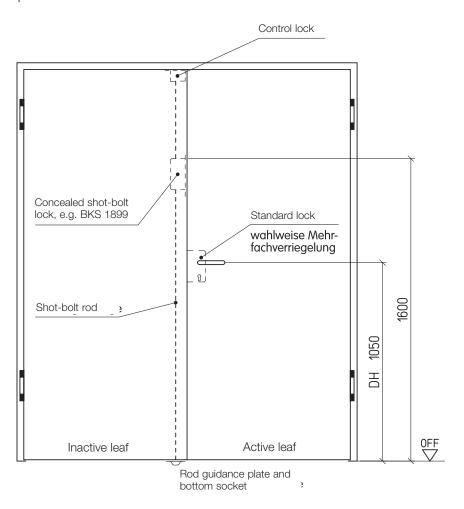
Concealed shot-bolt lock

2-leaf door sets

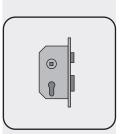
Concealed shot-bolt lock

Schörghuber 2-leaf doors are by default equipped with a concealed shot-bolt lock. The inactive leaf can only be unlocked if the active leaf is opened. By triggering the lever of the concealed shot-bolt lock, the shot-bolt rods are manually pulled into the door leaf. A following arrest prohibits the rods from extending and therefore a damaging of the floor. When the inactive leaf is moved into locking position again, the control lock automatically releases the self-bolting shot-bolt rods to the top and bottom and the inactive leaf is locked.

Due to this construction the inactive leaf is not equipped with a one-sided lever set. If a concealed shot-bolt lock is used, a panic function for 2-leaf door sets is only available as partial panic function on the active leaf .







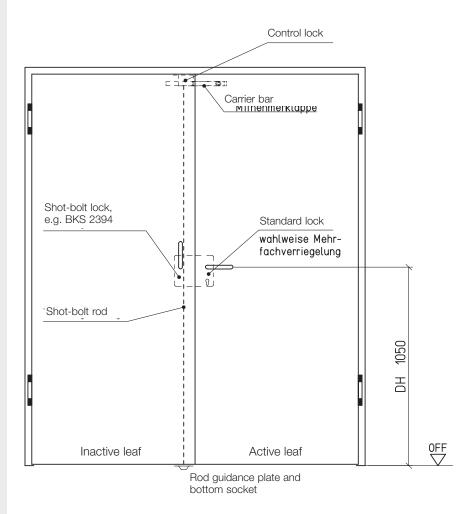
Shot-bolt lock

2-leaf door sets

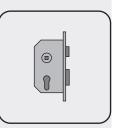
Shot-bolt lock

Instead of a concealed shot-bolt lock 2-leaf door sets are also available with a shot-bolt lock. In this case the inactive leaf is equipped with a one-sided lever set.

If a shot-bolt lock is used a panic function including a carrier bar is possible for both door leafs.







Self-bolting panic locks

BKS series 21xx

Self-bolting panic locks

The trademark of the BKS self-bolting locks is the latch bolt. An integrated triggering lever in the latch operates the bolting of the lock before reaching the final bolting position of the door leaf. During this process the automatic bolt as well as the latch bolt extend by 20 mm. This way a double bolting of the door is the result. 2-leaf full panic doors though are missing the automatic bolt

The lock series 21 is also available as a narrow stye lock option, series 19.

The following examples are but a few of many variations.

BKS 2120

- Mechanical self-bolting with sequence control
- Bolt and latch bolt 20 mm locking out
- For 1-leaf doors
- Panic switching function B (lever/lever)
- in combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Round cylinder possible
- Usage of standard cylinder possible
- Forend width 20 respectively 24 mm
- Rosettes, short and long backplate possible

BKS 2121

as 2120 but:

- For 2-leaf full panic doors
- only DIN EN 179
- For inactive leaf: BKS 2190

BKS 2126

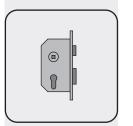
- Mechanical self-bolting with sequence control
- Bolt and latch bolt 20 mm locking out
- Panic latch function E (external knob)
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Round cylinder possible
- Usage of standard cylinder possible
- Forend width 20 respectively 24 mm
- Rosettes, short and long backplate possible

BKS 2129

as 2126 but:

- For 2-leaf full panic doors
- only DIN EN 179
- For inactive leaf: BKS 2190





Self-bolting panic locks

BKS series 21xx

BKS 2130

- Mechanical self-bolting with sequence control
- Bolt and latch bolt 20 mm locking out
- With top bolting for extra high doors
- For 1-leaf doors
- Panic switch function B (lever/lever)
- In combination with approved fittings panic function according to DIN EN 179 approved
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Round cylinder possible
- Usage of standard cylinder possible
- Forend width 20 respectively 24 mm
- Rosettes, short and long backplate possible

BKS 2131

as 2130 but:

- For 2-leaf full panic doors
- For inactive leaf: BKS 2190

BKS 2136

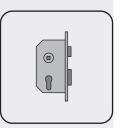
- Mechanical self-bolting with sequence control
- Bolt and latch bolt 20 mm locking out
- With top bolting for extra high doors
- Panic latch function E (external knob)
- In combination with approved fittings panic function according to DIN EN 179 approved
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Round cylinder possible
- Usage of standard cylinder possible
- Forend width 20 respectively 24 mm
- Rosettes, short and long backplate possible

BKS 2139

as 2136 but:

- For 2-leaf full panic doors
- Panic switch function B (lever/lever)
- For inactive leaf: BKS 2190





Self-bolting panic locks

BKS series 21xx

BKS 2170

- Mechanical self-bolting with sequence control
- Latch bolt 20 mm locking out
- External lever electrically engageable
- 12/24 V DC, working current
- For 1-leaf doors
- Panic bolting necessity C (lever/lever)
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Usage of standard cylinder possible
- Forend width 20 respectively 24 mm
- Rosettes, short and long backplate possible
- Incl. 10 m connection cable
- Detection of different lock states depending on the lock type
 - a) Rear backset dimension 28 mm Latch surveillance
 - PZ usage
 - b) Rear backset dimension 42 mm

Latch surveillance

Internal/external lever usage

PZ usage

BKS 2170 "Funkschloß"

- As standard BKS 2170, but without external electricity supply (integr. battery)
- Additional wall modul (FMIO) near door
- Detection of different lock states depending on the lock type
- * Rear backset dimension 28 mm
- * Latch surveillance
- * PZ usage

BKS 2110

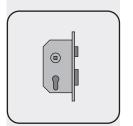
- Mechanical self-bolting with sequence control
- Latch bolt 20 mm locking out, bolt missing!
- For 1-leaf doors
- Panic switching function B (lever/lever)
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Round cylinder possible
- Usage of standard cylinder possible
- Forend width 20 respectively 24 mm
- Rosettes, short and long backplate possible

BKS 2111

as 2110 but:

- For 2-leaf full panic doors
- For inactive leaf DIN EN 1125: BKS 2189
- For inactive leaf DIN EN 179: BKS 2190





Self-bolting panic locks

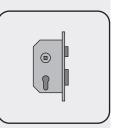
BKS EVP lock

(electrically bolting panic lock system)

- Mechanical self-bolting with sequence control
- Latch bolt 20 mm locking out
- Additional latch in the bolt area as counter part to the escape door opener
- Panic functions:
 - * Latch function E
 - * Switching function B
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- 9 mm follower
- Distance 72 mm, backset 65 / 80 / 100 mm
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 20 respectively 24 mm
- Rear backset dimension 28 mm
- Rosettes, short and long backplate possible







Self-bolting panic locks

DORMA SVP

Self-bolting panic locks

In contrast to standard insertion locks, for which the bolt is manually pre-locked through a single or double turn with the help of a key, the self-bolting locks bolt automatically. This ensures that the door is bolted after each locking operation. Hereby a special controlled latch triggers the pre-locking of the bolt. Sequence controlled locking operations ensure that the bolt extends only when the locking position is reached.

Additionally for DORMA SVP locks the cross latch is locked in place, so that a "twin point locking" is established.

Four different model series of the DORMA SVP lock programme ensure a broad spectrum of specific security, comfort, control and operation funtions are achievable.

The DORMA SVZ locks are identical to the SVP locks, but without panic function.

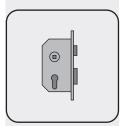
series SVP 5000

- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- Panic latch function E (external knob)
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Distance 92 mm, backset 35/45 mm
- Round cylinder possible
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 20 respectively 24 mm
- Long and short backplate possible, from backset 65 mm also rosettes

series SVP 4000

- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- Panic latch function E (external knob)
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- Detection "bolted/unbolted", "door open/door shut", "lever usage"
- 12 V DC
- Incl. connection cable SVP-A 1000 (10 m)
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Distance 92 mm, backset 35/45 mm
- Round cylinder possible
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 20 respectively 24 mm
- Long and short backplate possible, from backset 65 mm also rosettes





Self-bolting panic locks

DORMA SVP

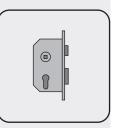
series SVP 6000

- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- Panic function, lever/lever, external lever electrically engageable
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- Detection "bolted/unbolted", "door open/door shut", "lever usage"
- Permanent open function and day function
- 12 V DC, optionally 24 V DC
- Working current principal (for black out external lever disengaged. no unauthorised entry possible), optionally stanby current principal
- Incl. connection cable SVP-A 1000 (10 m)
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Distance 92 mm, backset 35/45 mm
- Round cylinder possible
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 20 respectively 24 mm
- Long and short backplate possible, from backset 65 mm also rosettes

series SVP 2000

- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- Motorische Entriegelung
- Panic function E, external knob
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- Detection "bolted/unbolted", "door open/door shut", "lever usage"
- Permanent open function and day function
- 12 V DC, optionally 24 V DC
- Working current principal
- Latch for the unbolting through a key from the outside
- Incl. connection cable SVP-A 1000 (10 m)
- External motor control DORMA SVP-S 2x necessary
- For usage in FS / RS doors the control has to be set to no current using an approved RMZ
- For FS / RS doors the modul SVP-PR 12 (Power Reserve Modul) has to be used
- Magnetic reed contact necessary
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Distance 92 mm, backset 35/45 mm
- Round cylinder possible
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 20 respectively 24 mm
- Long and short backplate possible, from backset 65 mm also rosettes





Self-bolting panic locks

effeff

Self-bolting panic locks

In contrast to standard insertion locks, for which the bolt is manually pre-locked through a single or double turn with the help of a key, the self-bolting locks bolt automatically. This ensures that the door is bolted after each locking operation. Hereby a special controlled latch triggers the pre-locking of the bolt. Sequence controlled locking operations ensure that the bolt extends only when the locking position is reached.

Additionally for effeff locks the cross latch is locked in place, so that a "twin point locking" is established.

Multiple different model series ensure a broad spectrum of specific security, comfort, control and operation funtions are achievable.

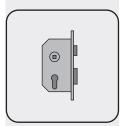
effeff 309x

- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- For 1-leaf doors
- Panic latch function E (external knob)
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- 9 mm follower
- Distance 72 mm, backset 65 mm
- Distance 92 mm, backset 35/45 mm
- Round cylinder possible (CH)
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 24 mm
- Rosettes, short and long backplate possible, for RR lock only long backplate

effeff 409x

- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- For 1-leaf doors
- Panic latch function E (external knob)
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- Detection bolted/unbolted, controlled latch, lever usage, profile cylinder
- 9 mm follower
- Distance 72 mm, backset 65 mm
- Distance 92 mm, backset 35/45 mm
- Round cylinder possible (CH)
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 24 mm
- Rosettes, short and long backplate possible, for RR lock only long backplate





Self-bolting panic locks

effeff

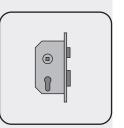
effeff 509x

- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- Motor driven unbolting
- Multiple voltages 12/24 V DC, working current
- For 1-leaf doors
- Panic latch function E (external knob)
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- Detection bolted/unbolted, controlled latch, lever usage, profile cylinder
- 9 mm follower
- Distance 72 mm, backset 65 mm
- Distance 92 mm, backset 35/45 mm
- Round cylinder possible (CH)
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 24 mm
- Rosettes, short and long backplate possible, for RR lock only long backplate
- Incl. 10 m connection cable

effeff 709x

- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- Panic function, lever/lever, external lever electrically engageable
- Multiple voltages 12/24 V DC, working current
- Working current principal (for black out external lever disengaged. no unauthorised entry possible), optionally stanby current principal
- For 1-leaf doors
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- Detection bolted/unbolted, controlled latch, lever usage, profile cylinder
- 9 mm follower
- Distance 72 mm, backset 65 mm
- Distance 92 mm, backset 35/45 mm
- Round cylinder possible (CH)
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 24 mm
- Rosettes, short and long backplate possible, for RR lock only long backplate
- Incl. 10 m connection cable



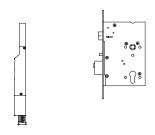


Self-bolting panic locks

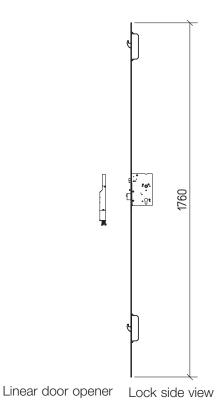
effeff MEDIATOR

considting of MEDIATOR lock with MEDIATOR linear door opener

MEDIATOR is a combination of self-bolting panic lock and electrical door opener. Through the unlocking and retracting of the bolt from the frame, the cross latch is unbolted through the lock mechanism. The door is accessible from the outside.



Linear door opener Lock side view



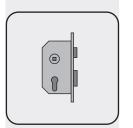
effeff MEDIATOR Lock with linear door opener

- Electrical door opener through linear feeder
- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- For 1-leaf doors
- Panic latch function E (external knob)
- In combination with approved fittings panic function according to DIN EN 179 approved
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Distance 92 mm, backset 35/45 mm
- Unbolting time ~ 0,8 seconds
- 4-wire supply
- Activation voltage 5-48 V AC or DC
- Working voltage 12 V DC regulated
- Note: If a mains adapter of a different manufacturer is used, assure that the model has a DC voltage of 12 V and delivers a current of min. 1 A
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Rosettes, short and long backplate possible, for RR lock only long backplate

effeff MEDIATOR multiple bolting lock with linear door opener

- Just as single bolting, but with additional hook bolts on the additional bolts
- Unbolting time ~ 1,3 seconds





Self-bolting panic locks

GEZE IQ-Lock

Self-bolting panic locks

In contrast to standard insertion locks, for which the bolt is manually pre-locked through a single or double turn with the help of a key, the self-bolting locks bolt automatically. This ensures that the door is bolted after each locking operation. Hereby a special controlled latch triggers the pre-locking of the bolt. Sequence controlled locking operations ensure that the bolt extends only when the locking position is reached.

Additionally for GEZE locks the cross latch, which is divided whereas the halfs are located above respectively below the bolt, is locked in place. Due to this special feature special strike plates or punchings in steel frames are necessary.

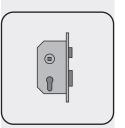
GEZE IQ-Lock M

- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- For 1-leaf doors
- Usable left/right
- Panic latch function E (external knob)
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Distance 92 mm. backset 35/45 mm
- Round cylinder possible
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 20 mm, RR lock 24 mm
- Rosettes, short and long backplate possible, for RR lock only long backplate

GEZE IQ-Lock EM

- Mechanical self-bolting with sequence control
- Bolt 20 mm locking out, cross latch locked
- Panic function, lever/lever, external lever electrically engageable
- 24 V DC
- Working current principal (for black out external lever disengaged, no unauthorised entry possible)
- For 1-leaf doors
- In combination with approved fittings according to DIN EN 179 and 1125 approved
- Detection bolted, controlled latch, lever usage, supporting latch usage (door shut)
- 9 mm follower
- Distance 72 mm, backset 65/80/100 mm
- Distance 92 mm, backset 35/45 mm
- Round cylinder possible
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 20 mm, RR lock 24 mm
- Rosettes, short and long backplate possible, for RR lock only long backplate
- Incl. 5 m connection cable





Self-bolting panic locks

GEZE IQ-Lock

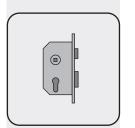
GEZE IQ-Lock EL

- Mechanical self-bolting with electrical sequence control
- Bolt 20 mm locking out, cross latch locked
- Motor driven unbolting, < 1 second
- Permanent open settable
- Usable left/right
- 12 V / 24 V DC, working current
- For 1-leaf doors
- Panic latch function E (external knob)
- In combination with approved fittings panic function according to DIN EN 179 and 1125 approved
- Detection bolted, lever usage, door leaf open/shut, fault alarm
- 9 mm follower
- Distance 72 mm, backset 65 mm
- Distance 92 mm, backset 35/45 mm
- Round cylinder possible
- Usage of standard cylinder possible, free-swing cylinder not necessary
- Forend width 20 / 24 mm, RR lock 24 mm
- Rosettes, short and long backplate possible, for RR lock only long backplate
- Incl. 5 m connection cable

GEZE IQ-Lock M DL / EM DL / EL DL

- 2-leaf configuration:
- Backset 65 / 80 mm (for distance 72 mm)
- Backset 35 / 45 / 55 mm (for distance 92 mm)





Panic functions E, B, C and D

Configurations and fields of application

Panic function B

The door is equipped with levers on both sides. The locked door can be opened from the inside (panic function). The outside lever is unengaged. By unlocking with the key until the stop the normal function is reached and the door can be opened from both the inside and the outside. By locking the door with the key panic and idle function are restored (panic function B).

Panic function C

The door is equipped with levers on both sides. The locked door can be opened from the inside (panic function). The outside lever is always in idle function. By unlocking with the key until the stop the idle function is deactivated and the door can be opened from both the inside and the outside. The removing of the key is only possible when the door is locked (panic function C), i.e. the idle function is restored.

Panic function D

The door is equipped with levers on both sides. The locked door can be opened from the inside (panic function). If the inside lever is operated (escape function), the follower is coupled again. The bolting of the door only takes place if the lock cylinder is operated.

Panic function E

The door is equipped with a lever and a fixed knob handle set. The locked door can be opened from the inside (panic function), with the key from the outside (the bolt is rejected and the latch is drawn back).

Panic function for 2-leaf door sets, partial and full panic function

2-leaf door sets can be equipped with either partial or full panic function, whereas the necessary escape route width determines the function.

With partial panic function an unhindered opening of the active leaf is guaranteed. The inactive leaf can by default be equipped with a concealed shot-bolt lock.

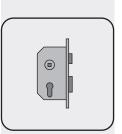
With full panic function it has to be possible for the escaping person to use the full width of the door set. If equipped accordingly the inactive leaf can be opened, even in bolted mode, by operating the one-sided lever.

In order to assure a safe door coordination, the attaching of a panic carrier bar in the top area on the push side is necessary. If the inactive leaf is pushed open, the carrier bar opens the active leaf far enough to assure that the door coordination function of the door closer keeps the active leaf open. Therefore the inactive leaf can close, according to regulations, before the active leaf and so fulfill the requirements of the fire and smoke protection functions.

Restrictions for the full panic function result from possible door restraints of active and inactive leaf, if the measures are below certain minimum dimensions (LD-width) > Index 3.

Furthermore a full panic function is not possible for 2-leaf doors with surface mounted door closer with slide rail on push side.



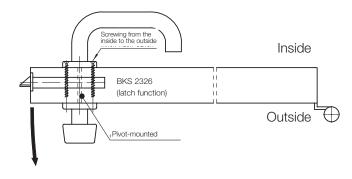


Panic functions

1-leaf door sets

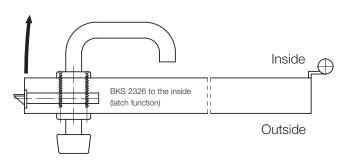
Panic function E

Escape direction: outside



Panic function E

Escape direction: inside

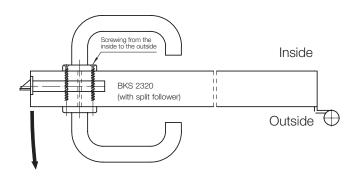


Panic function B

Panic function C

Panic function D

Escape direction: outside

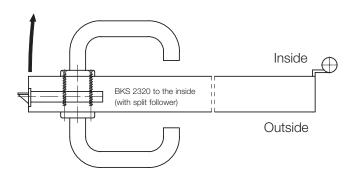


Panic function B Panic function C

r anic function o

Panic function D

Escape direction: inside

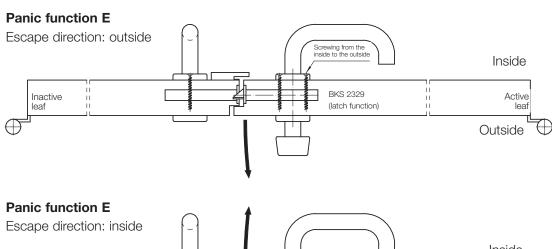


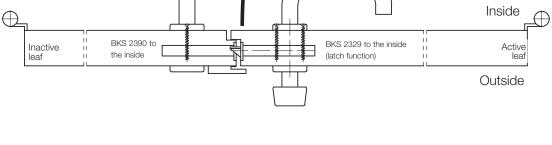


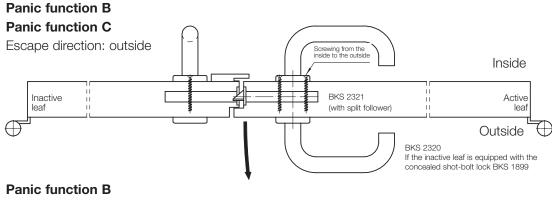


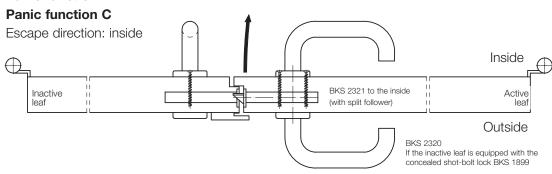
Panic functions

2-leaf door sets







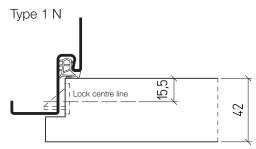




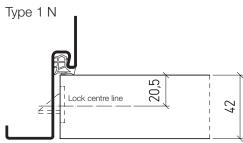
Lock centre lines

1-leaf door sets

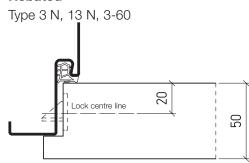
Rebated



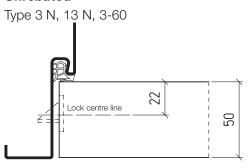
Unrebated



Rebated

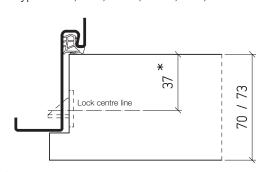


Unrebated



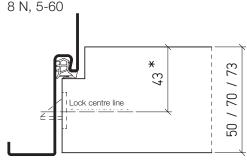
Rebated

Type 16 N, 5 N, 25 N, 21 N, 8 N, 5-60



Unrebated with jamb rebate

Type 3 N, 13 N, 16 N, 5 N, 25 N, 21 N, 8 N, 5-60



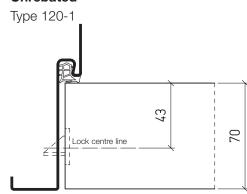
- 37 mm for a door leaf thickness = 70 mm + DIN-lock
- 37 mm for a door leaf thickness = 73 mm + DIN-lock
- 35 mm for a door leaf thickness = 73 mm + narrow style lock

32 mm for a door leaf thickness = 50 mm + DIN-lock, 20 mm forend

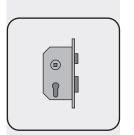
43 mm for a door leaf thickness = 70 mm + DIN-lock

44 mm for a door leaf thickness = 73 mm + DIN-lock 42 mm for a door leaf thickness = 73 mm + narrow style lock

Unrebated



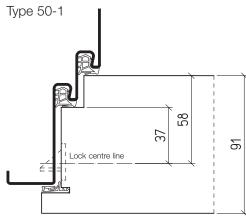




Lock centre lines

1-leaf door sets

Unrebated with double jamb rebate

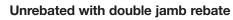


Unrebated with double jamb rebate

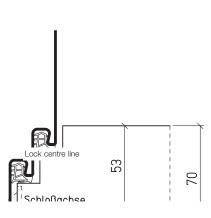
Type 17 N (Rw,P 48 dB), 35 N
* 37 mm for 17 N/35 N
41 mm for 6 N without gasket in the rebate

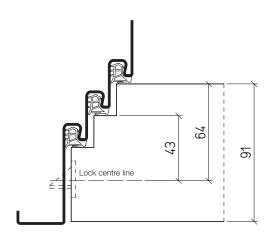
Unrebated with double jamb rebate

Type 16 N, 5 N



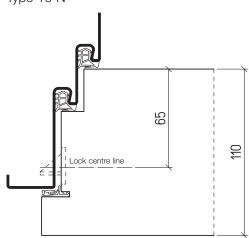
Type 50-1





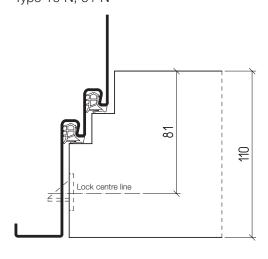
Unrebated with double jamb rebate

Type 10 N



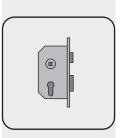
Unrebated with double jamb rebate

Type 10 N, 91 N



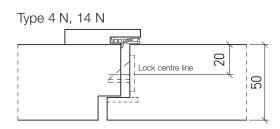


1100



Lock centre lines

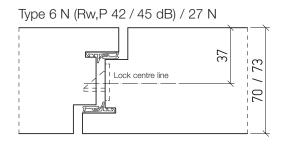
2-leaf door sets

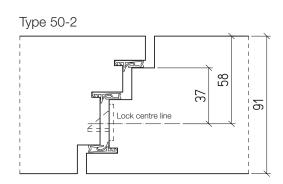


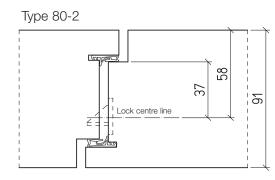
Type 4-60

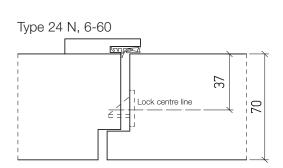
12.9

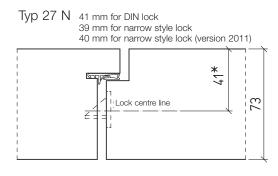
Type 26 N, 6 N (Rw,P 37 dB)

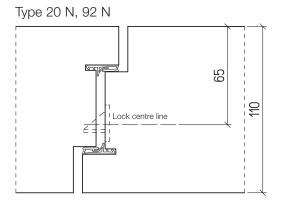






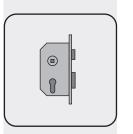








1003



Special configuration

Electrial surveillance of lock sets

The following lock parts, of mortise locks, can be electrically monitored:

- Rolt
- Latch
- Follower

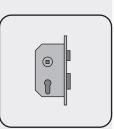
In most cases the surveillance of the bolt is sufficient, so that the surveillance of the latch and/or follower is rarely necessary. The electrical surveillance of the lock parts can either be realised seperately or in combination. Usually the cutout for the lock has only to be changed slightly.

FT lock surveillance

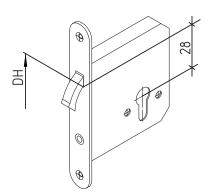
Especially for the combination of door control centres of BKS escape door systems a special type of electrical lock surveillance has been developed.

In this instance the situation of the bolt is monitored and an impulse is given as soon as the profile cylinder is turned. This lock can be used anywhere, where a control operation with the locking and unlocking is triggered. An exception are the BKS-FT door control centres.



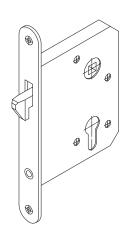


Locks Special locks



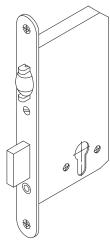
Sliding door lock

BKS 0371, backset 65 mm (suitable for the use with Schörghuber T 30 sliding doors)



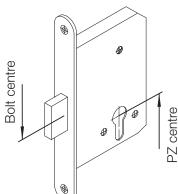
Sliding door lock

BKS 0375, backset 55, 60, 65 mm



Swing-door lock with role latch and PZ

- BKS 0055, backset 55, 60, 65 mm
- BMH 311, backset 55-100 mm



Bolt lock

e.g. BKS 0010, backset 55, 65, 80 mm





Handles

Contents

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		Page
13.1	General information	1106 - 1107
13.2	DIN EN 1906, DIN 18255, DIN 18257 and 18273	1108 - 1109
13.3	Handle configurations	1110 - 1112
13.4	Flush rosettes	1113
13.5	Escape door systems DIN EN 179, 1125	1114 - 1115





General information

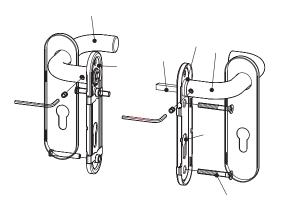
Configurations

Function

A door is operated by a lever or knob, which is directly connected to the lock by spindle and follower. By pushing the lever down and so retracting the latch, the door can be opened by hand. Among its main function to open and close doors, the handle set, in combination with the hinges, turned out to be more and more important in the means of design for the private and public construction sector in recent years. Today, depending on the taste of the customer, handle sets are available in simple design to the point of eccentric creations of famous designers and architects.

Technical terms

Terms, dimensions and requirements of door handles are defined by DIN EN 1906, DIN 18255, 18273 and 18257. In the following drawing the single components and parts of a handle set are illustrated.



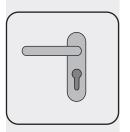
- 1 Lever (with spindle)
- 2 Lever (with hole)
- 3 Backplate
- 4 Spindle
- 5 Cylinder hole
- Guide bearing
- 7 Fastening screw

Handles, backplates and rosettes

Terms, dimensions and requirements are defined by DIN standards. Regarding the frequency of use of heavy-duty doors, e.g. in public buildings, administrations, hospitals, schools and universities, banks and demanding domestic building projects, handle sets are subject to long-term durability and fire protection testings, depending on the requirements and functions.

Using manufacturer specific constructions, concerning the guide bearing of the handles, it is assured that frequently used doors are able to absorb the energies during the opening and closing operations. In order to assure a long service life an installation according to the manufacturer directions is recommended.

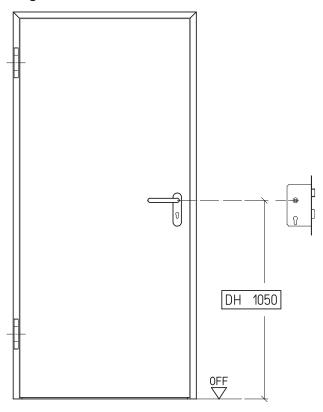




General information

Configurations

Height of the handles



The height of the door handles (DH) is, according to DIN 18101, 1050 mm measured from the surface of the finished floor (OFF).

Differing heights are possible. Also for Fire- and Smoke-Protection-Doors the height of the handels can vary from 850 mm to 1250 mm.

The desired height of the handles (measured from the lower frame rebate) for 4-sided frames and especially for flaps has to be indicated.

Shape, material and surface

Door handle sets are described according to their cross-section, as for example round- or oval-shaped handles, but also according to their geometrical shapes, e.g. as U-shaped, L-shaped, flat-shaped, or described as semicircular shaped etc. Other handles are named after their production site e.g. Bauhaus-Handles or after their designers. Usually the various handle shapes can be combined with backplates, such as short backplate, long backplate or rectangular backplates of any kind of shape as well as with rosettes.

The appearance of a handle set is furthermore determined by the choice of material and the surface finish. Besides aluminium and plastic material as well as stainless steel and brass handle sets, also combinations of the materials metal/wood and metal/plastic material are possible. Aluminium handles can be coated with various eloxal colourings, stainless steel handles are available either matt or polished. Plastic material handles are available in various colourings.





According to DIN 18255

Terms and requirements

Knob-lever set

Differing from panic function, for example apartment entrance doors can be equipped with a door knob on the outside. For this purpose a lock with panic function E, with which it is possible to retract the latch by turning the key, is necessary, as well as a knob-lever handle set.

Handle set for inactive leafs

In case that the inactive leaf of 2-leaf door sets should be equipped with a handle set, the installation of a so called handle set for inactive leafs in combination with a shot-bolt lock is necessary. This handle set, also known as one-sided handle set, describes a handle set with spindle, backplate or rosette as well as a counter blind backplate or blind rosette.

Due to the fact that this handle set is usually just necessary for 2-leaf door sets with full panic function (panic function on both leafs), Schörghuber special doors are by default not equipped with a one-sided handle set, but with a concealed shot-bolt lock. In this case, the opening of the inactive leaf can only take place, if the active leaf is opened and by operating a retractable lever in the door leaf edge. Alternatively also an inactive leaf bolting, type DORMA HZ, can be used.

Panic handle set

Doors in escape and rescue routes are equipped with panic function. The installation of these handle sets, usually called panic handles, is only effective, if combined with panic locks. Constructively, handles are differentiated between lever/lever sets (function B, C or D) with split spindle and knob-lever sets (function E) with one-sided fixed knob.

If equipped with panic function the door can be either equipped with a lever/lever set respectively knob-lever set, or also with an approved panic crossbar/push crossbar set on the push side, or on pull side with a one-sided fixed knob or a handle set.

Note: Locking systems forescape and panic routes are regulated according to DIN EN 179 and 1125.

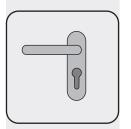
Sports hall handles

According to special regulations regarding the configuration of sports facilities, doors have to be equipped with flush or just slightly projecting handles. Thereby the risk of injury should be precluded.

The installation of such a door handle set is also recommended for other areas, such as multipurpose halls or for fixed doors in wall recesses, where the door handle should not project into the hallway respectively the escape route.

More details about the various handle set configurations can be found on the following pages.





Acc. to DIN 18257, DIN EN 1906 and DIN 18273

Terms and requirements, test procedures and dimensions

Fire protection handle sets

Handle sets according to DIN 18273 are part of Fire- and Smoke-Protection-Door sets and therefore underlie the requirements of DIN 4102 part 5 and part 18. They have to undergo, just as functional doors, long-term durability and fire protection testings. Fire protection handles (Fire-Protection handles) need to be equipped with a square-cut spindle, diameter 9 mm. Handle sets made of materials with a melting point \leq 1000 °C has to contain a steel core which is connected with the spindle and which extends 80 mm into the lever.

Fire protection handles for Fire- and Smoke-Protection-Doors are part of the approval respectively the test certificate and therefore need to be included in the delivery set of the door manufacturer. They can be delivered either as lever/lever or as lever/fixed knob handle set. Schörghuber Fire- and Smoke-Protection-Doors are by default equipped with a plastic material handle set in U-shape (lever/lever) with short backplate or optionally with rosette.

Security fittings

Burglar-Protection-Doors need to be equipped with solid security fittings in different resistance classes according to DIN 18257. According to the door function WK 2 or WK 3 adequate security fittings in the resistance classes ES 1 or ES 2 need to be used. Due to their construction security fittings hinder the forcibly twisting off of the profile cylinder and therefore a direct attack on the lock area.

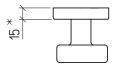
In order to successfully hinder a pulling out of the profile cylinder, many security fittings are equipped with a pull protection. This cylinder faceplate (ZA), made of especially hardened metal should additionally prevent attacking respectively drilling of the cylinder.

For Burglar-Protection-Doors with a test certificate according to DIN V ENV 1627 an approved security lever/knob set has to be used.

One-sided fixed knob

Standard (ES 2)





^{*} Depending on the model

Handle manufacturer / design	backplate/rosette thickness		
ECO handle "standard" with short backplate	8,5 mm		
HEWI handle with rosette	11,5 mm		
ECO with short backplate in aluminium	8,5 mm		
ECO with rosette in aluminium	8,5 mm		
ECO with short backplate in stainless steel	8,0 mm		
ECO with rosette in stainless steel	8,5 mm		
ECO with rosette in polyamide plastic	9,5 mm		
ES-1 handle with long backplate without pull protection	14,5 / 5, 0 mm		
ES-2 handle with long backplate with pull protection	14,5 / 5, 0 mm		

Other handles, which are not listed above have to be enquired for.



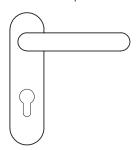


Configuration versions

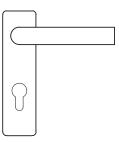
Handles and backplate forms

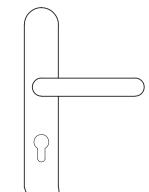


Short backplate



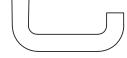


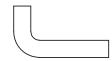




U-shape

Long backplate

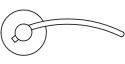


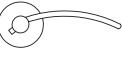




Special-shape

Rosette

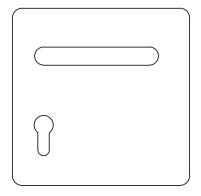




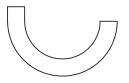


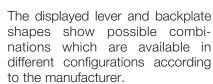
Semicircular-shape

Rectangular backplate



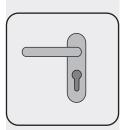






For handle configurations with rectangular backplate in combination with doors and vision panels a minimum frieze width of 240 mm is necessary.





Configuration versions

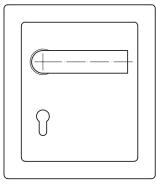
Sports hall handles (flush)

Sports hall handles (flush)

According to special regulations regarding the configuration of sports facilities, doors have to be equipped with flush or just slightly projecting handles. Threreby the risk of injury should be precluded.

The installation of such a door handle set is also recommended for other areas, such as multipurpose halls or for secured doors in wall recesses, where the door handle should not extend into the hallway respectively the escape route.

FSB 794*

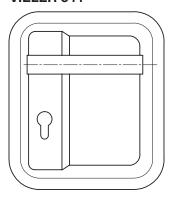


7940 Short backplate
7941 Rosettes
7942 Rosettes on the inactive leaf



VIELER 544

FSB handle sets





By default in combination with Vieler 522. .. with short backplate

			Flush handle		Flush handle
Door type /			on one side		on both sides
	or leaf	Edge			
thickness		geometry	Pull side	Push side	
	TD 42-1	Rebated	FSB Vieler		
		Unrebated	Vieler	Vieler	Vieler
	TD 42-2		On re	quest	On request
	TD 50-1	Rebated	FSB Vieler	Vieler	Vieler
		Unrebated	FSB Vieler	Vieler	Vieler
>	,	Unrebated with jamb rebate		FSB Vieler	
Heavy-duty	TD 50-2	Meeting stiles standard rabbet ledge	FSB Vieler Vieler		Vieler
a S	TD 70-1	Rebated	FSB	FSB	FSB
문		Lipropoted with	Vieler FSB	Vieler FSB	Vieler FSB
		Unrebated with jamb rebate	Vieler	Vieler	Vieler
		Rebated with jamb rebate	On request		On request
		Unrebated with double-jamb rebate	ouble-		On request
	TD 70-2	Meeting stiles single rebate	FSB Vieler	FSB Vieler	FSB Vieler
		Meeting stiles double-rebated	FSB Vieler	FSB Vieler	FSB Vieler
	TD 50-1	Rebated	FSB/Vieler	Vieler	Vieler
		Unrebated	FSB/Vieler	Vieler	Vieler
		Unrebated with jamb rebate		FSB Vieler	
30	TD 50-2	Meeting stiles standard rabbet ledge	FSB Vieler Vieler		Vieler
	TD 70-1	Rebated	FSB	FSB	FSB
		Unrebated with	Vieler FSB	Vieler FSB	Vieler FSB
H		jamb rebate	Vieler	Vieler	Vieler
		Rebated with jamb rebate		equest	On request
		Unrebated with double-jamb rebate	On re	equest	On request
	TD 70-2	Meeting stiles	FSB	FSB Violen	FSB Violen
		single rebate Meeting stiles	Vieler FSB	Vieler FSB	Vieler FSB
L		double rebate	Vieler	Vieler	Vieler
T 90	TD 70-1	Rebated	Vieler	Vieler	
		Unrebated with jamb rebate	Vieler	Vieler	
		Meeting stiles single rebate	Vieler	Vieler	
		Meeting stiles double rebate	Vieler	Vieler	



Note:

If sports hall handles (flush) are used, locks with a backset of 80 mm or more have to be used. Additional solutions can be realised by using doors with additional wood pannelings.



Configuration versions

Code card lock systems

Mechanical and electronic code card systems

Due to innovative technologies in the area of door fittings more and more new locking systems are developed, which offer a great range of application areas.

Concerning the operation, non-contact, mechanically or electrically functioning systems with magnetic card, coded keys or other data mediums are offered by various manufacturers. The advantages of these systems can predominantely be found in the area of hotels and private properties, whereas the function of common lock cylinders is replaced by programmable cards or data mediums. Authorisations and user-defined hierarchies can be arbitarily changed, therefore a static locking system does not exist anymore.

In order to be used in combination with fire and smoke protection function these systems need a verification of suitability according to DIN 18273 (official test certificate by the building authorities). Furthermore a long-term durability and fire protection testing according to DIN 4102, part 5 and part 18 has to be verified.

Systems for conventional locks according to DIN are mounted instead of the common fittings. The fittings also match, if the door is equipped with a standard DIN-lock, a self-bolting lock or a lock with multiple bolting device.

The following listing shows approved FS / RS code card lock systems.

Manufacturer	Product name	FS / RS	WK 2/3
Burg Wächter	TSM 500 F/TSM 510 F	Yes	No
Compart	CL 2000	Yes	No
Dorma	X S-Beschlag	Yes	No
ECO (identisch Compart)	Compart CL 2000	Yes	No
eff eff (ASSA ABLOY)	ANYKEY	Yes	Yes
EVVA	Salto XS 4	Yes	No
FSB	EZK	Yes	No
Grundmann	GEOS	Yes	No
Häfele SPHINX	Dialock	Yes	No
Häfele SPHINX	DT/FH, DT/ProFH, DTSH FH	Yes	No
HEWI	Electronic lock system	Yes	Yes
HEWI	Electronic compact lock system	Yes	No
HEWI	Wall or door mounted code card reader	Yes	No
KABA	Elolegic lock	Yes	No
KABA	c-Lever	Yes	No
Messerschmitt	Key Card System Classic (2, 3)	Yes	No
	PegaSys	Yes	No
ONITY	HT24-B, HT28-B	Yes	No
Schulte Schlagbaum	VARIFree	Yes	No
SLS	ELock 2	Yes	No
TimeLox	TimeLox T90	Yes	No
VingCard	Classic / -RFID	Yes	No
VingCard	signatur / -RFID	Yes	No





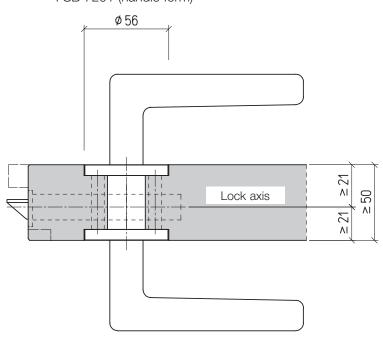




Handles Flush rosettes

If special optical design features are desired FSB rosettes for flush installation within the door leaf are available.

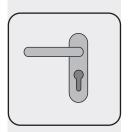
Type: FSB 7601 (handle form) FSB 7201 (handle form)



Areas of use:

- T 30 / RS (door leaf thickness ≥ 50 mm)
- Wet Room / damp room doors
- Sound-Insulation / Heavy-Duty Doors





Escape door systems

Regulations

Escape door systems für Europa

Since April 2003 new, standardised norms for escape doors apply for the whole of Europe. Lock, fittings and mounting accessories are tested combined and are only allowed to be sold and used as a set.

The new EU-standards divide escape door systems according to their area of application into emergency exits and panic closures. These standards have been updated in April 2008.

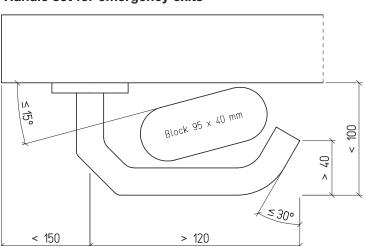
Emergency exits

Emergency exits according to DIN EN 179 are designed for buildings without public foot traffic and whose visitors and users know the function of the escape doors and the event of a panic is improbable.

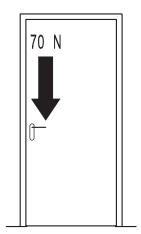
The standard specifies a vertically on the lever operating test force of at most 70 N, at which the bolting elements of the door should unlock and the door should open automatically.

The handle sets can be ordered as lever/lever or lever/knob sets. A continous screw connection is compulsory. The mounting accessories are also part of the certified fittings. In order to prevent injuries the basic geometry of the handle set is predetermined. The open end of the door lever has to be configured in a manner which allows it to face the door leaf surface. If the door is to be secured against unauthorised entering when shut, for example an additional escape door bolting mechanism has to be installed.

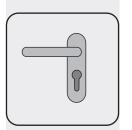
Handle set for emergency exits



Maximum release force







Escape door systems

Regulations

Panic doors

Panic doors according to DIN EN 1125 are designed for public buildings whose visitors and users do not know the function of the escape doors and who need to be able to use the emergency exits without being instructed. This applies for example for hospitals, schools, public administrations, airports and shopping centres.

The release forces for panic doors are regulated as well. In two different procedures the locking system is tested, on the one hand the door set is tested without initial load. With an operating force of at most 80 N the door should open automatically. During the second procedure an initial force of 1000 N affects the door leaf. Hereby the operating force should not exceed 220 N.

On the escape side of panic doors crossbar handles or push crossbars, which extend across the whole width of the door set, are compulsory. On the outside according lever, knob or blind backplates have to be installed. The external handles and the mounting accessories are also a certified part of the fittings. If the door is to be secured against unauthorised entering when shut, for example an additional escape door bolting mechanism has to be installed.

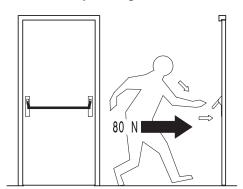
Panic crossbar

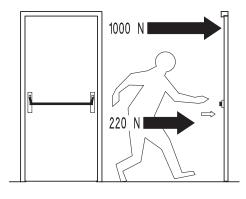


Push crossbar

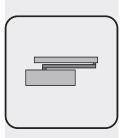


Maximum operating force







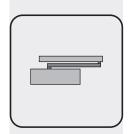


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General information

Configurations

General information

The main purpose of door closers is to automatically and controlled close doors after they were opened manually. The hereby necessary energy is generated during the opening procedure and stored in form of mechanical energy (springs). The closing procedure is hydraulically damped, whereas the damping level, the closing pressure and additional functions are adjustable, depending on the model of the door closer.

Reasons to close a door automatically can be:

- Fire- and / or Smoke-Protection function
- Security aspects
- Energy saving
- Protection from noise and other environmental influences
- Privacy protection

Spring hinges

A very simple option to self-actuate doors is offered by spring hinges. However, due to the missing shock absorbing action and optical shortcomings their use is limited to secondary door sets. Spring hinges are not allowed for Fire-Protection-Doors with vision panel. For Smoke-Protection-Doors without vision panel their use is restricted by the door sets dimensions.

Door closers

A wide range of functions and design shapes are offered by door closers. For the different installation situations of door sets, door closers in overhead or standard installation on push and pull side are available. Lintel installation options are also possible.

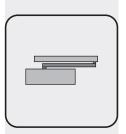
The modern architecture especially in high-quality buildings often prefers understated or completely concealed hardware systems. Overhead door closers integrated into the door leaf and frame or floor-mounted door closers are ideal for such design concepts.

Due to the different possible special functions of the door closers, such as adjustable closing time delay, electrical hold-open function, free-swing function and so on, door sets can be optimally tuned for the required use.

Door closers are devided into the following main categories:

- Overhead door closers with projecting arms
- Overhead door closers with slide rail
- Integrated, concealed door closers
- Floor-mounted door closers
- Automatic door operators





General information

Standards

In the context of the work of the CEN (European committee for standardisation) three European standards were issued and nationally implemented for door closers:

DIN EN 1154 Locks and fittings,

Door closers with controlled closing procedure

Requirements and testing procedures

This DIN covers among other things

- Overhead door closers with projecting arm
- Overhead door closers with slide rail
- Integrated, concealed-mounted door closers
- Floor-mounted door closer

DIN EN 1155 Locks and fittings

Electrically operated hold-open devices for door closers

Requirements and testing procedures

This DIN covers electrical hold-open devices for integrated and external door closers

DIN EN 1158 Locks and fittings

Door coordination

Requirements and testing procedures

This DIN covers the door coordination mechanism for integrated as well as the external door closers for 2-leaf door sets

DIN 18263-4 Locks and fittings

Door closers with hydraulic shock absorbing action

Part 4: Door closers with automatic opening operation

This DIN covers automatic door operators for 1- respectively 2-leaf door sets

DIN 18650 Locks and fittings

Automatic door systems

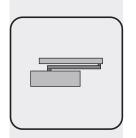
Part I: Product requirements and test procedures

Part II: Security for automatic door systems

This purely national DIN covers all automatic door closers for swing doors, sliding doors and revolving doors, as well as their

safety-technical aspects.





14.1

General information

Functions

Door closers can be equipped with various functions, which can be combined to a certain extend.

Closing pressure

With the help of an allen key the closing pressure of the most door closers can be adjusted infinitely variable. The required closing pressure is orientated according to the door leaf width and the door leaf weight. According to EN1154 the closing pressure for Fire- and Smoke-Protection-Doors has to be adjustable to at least door closer-size 3.

Closing speed

Allows the infinitely variable adjustment of the closing time.

Shock absorbing action

In order to assure a secure locking of the latch the damping of the door closer has to be adjustable, allowing the shock absorbing action to be neutralised if the door leaf reaches an aperture angle of approximately 7°.

Opening damping action

If adjusted accordingly, the momentum of an impetuously pushed open door can be slowed from a defined aperture angle on. The chance of the door closer the handles and the wall being damaged is reduced. In certain application areas, for example a door opening to the outside, the opening damping action can not replace the door stop.

Closing time delay

If adjusted accordingly, the time for the door closing procedure can be extended within an aperture angle of 70° and 120°. This allows enough time to be able to walk through the door.

Door coordination

According to DIN EN 1158 door coordination mechanisms are installed where a correct door coordination of 2-leaf door sets is required, for example for door sets with rebated meeting stiles. The door coordination guarantees that the active leaf is held open until the inactive leaf is completely shut.

Modern door coordination mechanisms for bearing on overhead door closers are integrated in the continuous slide rail. The door coordination mechanisms for integrated door closers are based in the frame or panel. Therefore no additional, optically disturbing, parts are needed.

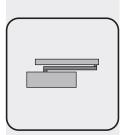
Free-swing function

Self-closing doors can be, due to the to overcome closing pressure, a handicap for older, weak er people or children. The self-closing function compensates the closing force. Therefore the user can to operate the door in the closing or opening direction without any resistance. The free-swing function is activated by a single opening of the door. Hereby the closing power of the door closer is mechanically stored. In the event of a fire or a power outage the stored energy is discharged again by the smoke swith control unit and the door closes self-actuating.

The free-swing function is available for door closers with projecting arm, door closers with slide rail (DORMA TS 99 FL respectively FLR and GEZE TS 5000 EFS respectively RFS) and for floor-mounted door closers (DORMA BTS 80 FLB). Variations with slide rail are available for pull side standard and also transom installations as well as 2-leaf doors in standard installation.

For highest optical requirements the free-swing function is also available for integrated door closers: GEZE Boxer EFS (up to projecting arm size EN4) and FORM EFS-I (up to projecting arm size 5). Schörghuber also offers this free-swing function exclusively for 2-leaf door sets!





General information

Functions

Electrohydraulic hold-open device

The hold-open device of door closers with projecting arm (DORMA or GEZE) is electro-hydraulic operated, within a range of approximately 75° and up to 180°. Hereby a springback, the additional range the door has to be opened in order to lock the door in place, of about 3° has to be taken into account. If the door is locked in place once more, additional tolerances of up to - 3° can occur. To some extend hydraulically locked doors can change their position over a longer period of time (creep behaviour).

DORMA floor-mounted door closer are electrohydraulically locked, covering a range of approximately 75° up to 180°. The springback of the hold-open device is about 3°. If the door is locked in place once more, additional tolerances of up to - 3° can occur. A creeping behaviour of the door over a longer period of time is eliminated.

Electromechanical hold-open device

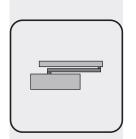
Door closers with slide rail are electromechanically locked in place in the area of approximately 80 °- 130° (GEZE) respectively 80° - 120° (DORMA). Concealed door closers (DORMA ITS 96 EMF) can be locked in place in an area of about 80° - 110°. If equipped with an electromechanical hold-open device, only a very minor springback of 0,5° has to be taken into account. A creeping behaviour of the door over a longer period of time is eliminated.

GEZE floor-mounted door closers are as well electromechanically locked in place in an area of approximately 80° – 180°. The springback of the hold-open device is about 2° to 3°. If the door is locked in place once more, additional tolerances of up to - 2° can occur. A creeping behaviour of the door over a longer period of time is eliminated.

Hold-open function with electromagnet

Long-term reliable, precise door setting, e.g. in hallway wall recesses can only be realised with electromagnets.



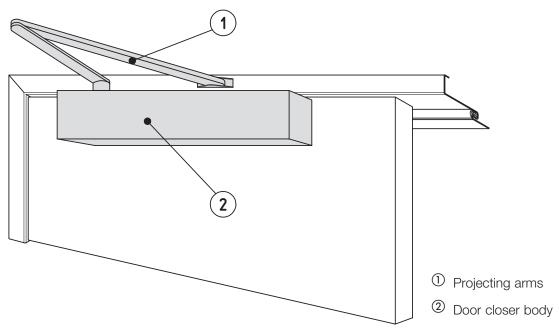


14.2

Overhead door closers

Projecting arm

Technical terms



Equipment

1-leaf Schörghuber Fire- and Smoke-Protection-Doors are by default equipped with a door closer with projecting arm. 2-leaf doors are by default equipped with a door closer with continous slide rail and integrated door coordination.

Advantages

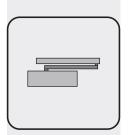
These standard door closers offer a price advantage but are neglecting the optical standards.

Large opening angles of up to 180 degrees are realisable with door closers with projecting arm if mounted on the push side. But also if mounted on the pull side larger opening angles can be achieved compared to door closers with slide rail.

The standard equipment of the door closer with projecting arm includes the adjustability of the closing pressure, the closing speed, the shock absorbing action and the opening damping action. Additional functions such as the closing time delay or the free-swing function are available on request.

Die Oberflächenausführung ist standardmäßig silberfarbig, wahlweise weiß, RAL-lackiert, oder dunkelbronce.





Overhead door closers

Projecting arm

Function overview

Type of the door closer 1-leaf door sets	Adjust. closing pressure nach DIN EN 1154	Adjustable closing speed	Shock absorbing action	Adjustable opening damping action	Adjustable closing time delay	Electrohydraulic hold-open device	Electromechanical hold-open device	Free-swing function with integrated hold-open device	Integrated smoke switch	Integrated door coordi- nation (with triggering roll)	Max. opening angle for installation on the pull side ^{2) 3)}
TS FORM	3 - 4		Х								180°
DORMA TS 73	2 - 6	Х	Х								180°
DORMA TS 83	2 - 6	Х	Х	Х							180°
DORMA TS 83 SV	2 - 6	Х	Х	Х	Х						180°
DORMA TS 73 EMF	2 - 6	Х	Х			75-180°					180°
DORMA TS 73 FL	2 - 6	Х	Х					Х			180°
DORMA TS 73 FLR	2 - 6	Х	Х			75-180°			X 1)		180°
GEZE TS 4000	1 - 6	Х	Х	Х							180°
GEZE TS 4000	5 - 7	Х	Х	Х							180°
GEZE TS 4000 S	1 - 6	Х	Х	Х	Х						180°
GEZE TS 4000 E	1 - 6	Х	Х			80-180°		Х			180°
GEZE TS 4000 EFS	1 - 6	Х	Х						X 1)		180°
GEZE TS 4000 R	1 - 6	Х	Х			80-180°		Х	X 1)		180°
GEZE TS 4000 RFS	1 - 6	Х	Х								180°
2-leaf door sets											
GEZE TS 4000 IS	1 - 6	Х	Х	Х					Х		180°
GEZE TS 4000 E-IS-G	1 - 6	Х	Х			80-180° (GF)			Х		180°
GEZE TS 4000 E-IS	1 - 6	Х	Х			80-180°			Х		180°
GEZE TS 4000 R-IS-G	1 - 6	х	х			80-180° (GF)			Х		180°
GEZE TS 4000 R-IS	1 - 6	Х	Х			80-180°			Х		180°

GF = hold-open device of the active leaf

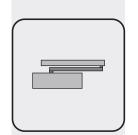
The GEZE TS 4000 without protective cap is similar to GEZE TS 4500 with protective cap.



¹⁾ Door closer in transom installation on push side

²⁾ Valid for standard frame faces

³⁾ Depending on the installation / wall situation



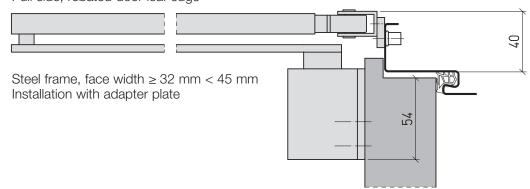
14.2

Overhead door closers

Installation options for door closers with projecting arm

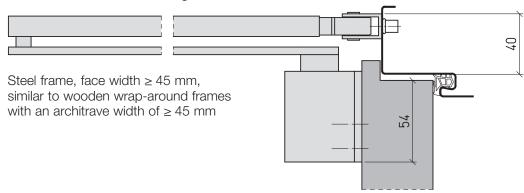
Standard installation

Pull side, rebated door leaf edge



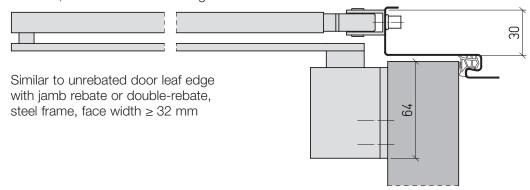
Standard installation

Pull side, rebated door leaf edge



Standard installation

Pull side, unrebated door leaf edge

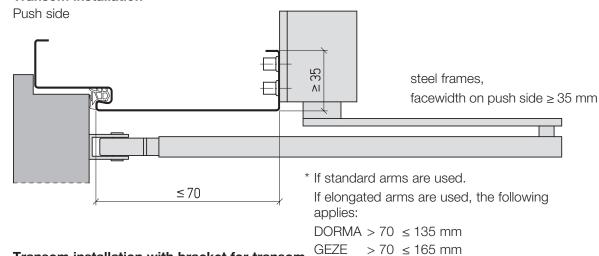




Overhead door closers

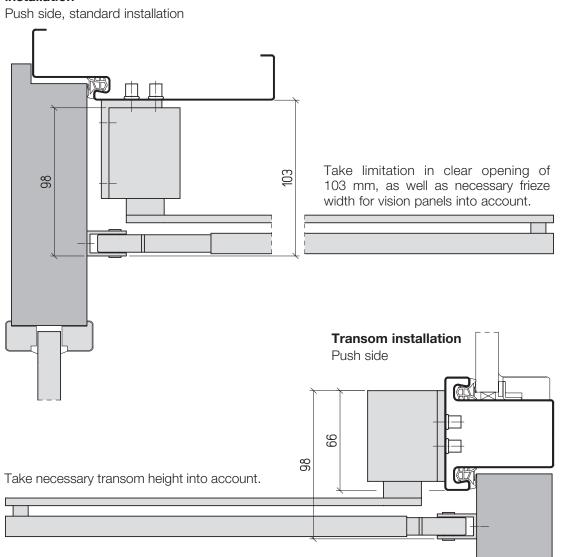
Installation options for door closers with projecting arm

Transom installation

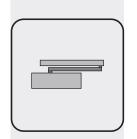


max. opening angle is restricted

Transom installation with bracket for transom installation





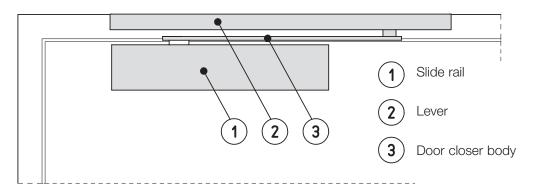


14.3

Overhead door closers

Slide rail

Technical terms



Equipment

1-leaf Schörghuber Fire- and Smoke-Protection-Doors are on request equipped with a door closer with slide rail. 2-leaf Fire- and Smoke-Protection-Doors are by default equipped with a door closer with continous slide rail and integrated door coordination.

Advantage

The essential advantage of the door closer with slide rail is the improved visual appearance of this flat on the door frame and door leaf mounted door closer. Due to the design of the door closer no parts project into the room, therefore the risk of injury and damage is, to a large extend, avoided.

Due to the technical configuration a clearly lower effort, compared to a door closer with projecting arm, is necessary to open the door.

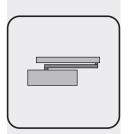
The standard equipment of the door closer with slide rail includes the adjustability of the closing pressure, the closing speed, the shock absorbing action, the opening damping action and partly the closing time delay.

The door closers with slide rail can be equipped with an integrated electromechanical hold-open device. With this a infinitely variable locking of the door in the area of approximately $80 - 120^{\circ}$ (DORMA TS 93) and approximately $80 - 130^{\circ}$ (GEZE TS 5000) is possible. Other than the DORMA TS 93, the GEZE TS 5000 allows the operator to opened the door beyond the locking point. Aperture angle, see chapter 3.5.

An additional free-swing function is offered by the DORMA TS 99 FL, FLR respectively FLR/K and the GEZE TS 5000 EFS respectively RFS.

The standard configuration is equipped with a silver-coloured protective cap. The protective caps can on request be delivered RAL-coated, dark



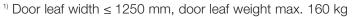


Overhead door closers

Slide rail

Function overview

Type of the door closer 1-leaf door sets	Adjust. closing pressure acc. to DIN EN 1154	Adjustable closing speed	Shock absorbing action	Adjustable opening damping action	Adjustable closing time delay	Electromechanical hold-open device approx.	Integrated smoke switch	Door coordination integrated in the continous slide rail	Free-swing function (breaker switch necessary)
TS FORM G	3 - 5	×	×	×					
DORMA TS 93	2 - 5 5 - 7	×	×	×	X				
DORMA TS 93 EMF 3)	2 - 5 5 - 7	×	×	×	×	80-120° 4)			
DORMA TS 93 EMR 3)	2 - 5 5 - 7	×	×	×	×	80-120° 4)	×		
DORMA TS 93 EMR V	2 - 5 5 - 7	×	X	×	X		×		
DORMA TS 99 FL 1)	2 - 5	×							х
DORMA TS 99 FLR 1)	2 - 5	×					×		х
DORMA TS 99 FLR/K	2 - 5	X					x		х
GEZE TS 3000 V 1)	2 - 4	×	X						
GEZE TS 5000 ²⁾	2 - 6	×	X	×					
GEZE TS 5000 S ²⁾	2 - 6	×	×		Х				
GEZE TS 5000 E ²⁾	2 - 6	×	×	×		80-130°			
GEZE TS 5000 R ²⁾	2 - 6	×	×	×		80-130°	×		
GEZE TS 5000 EFS	2 - 5		×						х
GEZE TS 5000 RFS	2 - 5		×				×		x

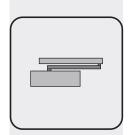


²⁾ Door leaf width ≤ 1400 mm

⁴⁾ Rebated door leaf: EMF max. approx. 95° Unrebated door leaf: EMF max. approx. 120°



³⁾ EMF = TAB max. 1250 mm



Overhead door closers

Slide rail

Function overview

T dilodoli overview									
Type of the door closer 2-leaf door sets	Adjust. closing pressure acc. to DIN EN 1154	Adjustable closing speed	Shock absorbing action	Adjustable opening damping action	Adjustable closing time delay	Electromechanical hold-open device approx.	Integrated smoke switch	Door coordination integrated in the continous slide rail	Free-swing function (breaker switch necessary)
DORMA TS 93 GSR	2 - 5 5 - 7	X	Х	X	Х			Х	
DORMA TS 93 GSR-EMF1G	2 - 5 5 - 7	х	Х	х	Х	80-120° (GF)		×	
DORMA TS 93 GSR-EMF1	2 - 5 5 - 7	×	х	×	X	80-120° (SF)		x	
DORMA TS 93 GSR-EMF2	2 - 5 5 - 7	×	х	×	X	80-120°		x	
DORMA TS 93 GSR-EMR1G	2 - 5 5 - 7	х	Х	х	Х	80-120° (GF)	Х	х	
DORMA TS 93 GSR-EMR1	2 - 5 5 - 7	×	×	×	Х	80-120° (SF)	Х	х	
DORMA TS 93 GSR-EMR 2	2 - 5 5 - 7	×	×	×	Х	80-120°	Х	×	
DORMA TS 93 GSR-EMR V	2 - 5 5 - 7	X	Х	X	X		Х	х	
DORMA GF: TS 99 FL ¹⁾ SF: TS 93 GSR	2 - 5 2 - 5	x						×	X (GF)
DORMA GF: TS 99 FL ¹⁾ SF: TS 93 GSR-EMF1	2 - 5 2 - 5	×				80-120° (SF)	x	x	X (GF)
DORMA GF: TS 99 FL ¹⁾ SF: TS 93 GSR-EMR1	2 - 5 2 - 5	×				80-120° (SF)	х	х	X (GF)
DORMA GF: TS 99 FL SF: TS 93 GSR-EMR V	2 - 5 2 - 5					without locking device		х	X (GF)
GEZE TS 5000 ISM ²⁾	2 - 6	Х	Х	Х				Х	
GEZE TS 5000 E-ISM/G ²⁾	2 - 6	×	Х	×		80-130° (GF)		X	
GEZE TS 5000 E-ISM 2)	2 - 6	X	Х	×		80-130°		X	
GEZE TS 5000 R-ISM/G 2)	2 - 6	Х	Х	Х		80-130° (GF)	Х	X	
GEZE TS 5000 R-ISM 2)	2 - 6	×	×	×		80-130°	Х	×	
GEZE TS 5000 ISM-EFS ⁴⁾ GF: TS 5000 E Hy SF: TS 5000 ISM EFS	2 - 5 2 - 6	×	×			80-130° (SF)		x	X (GF)
GEZE TS 5000 ISM-RFS ⁴⁾ GF: TS 5000 E Hy SF: TS 5000 ISM RFS	2 - 5 2 - 6	x	x			80-130° (SF)	x	x	X (GF)

GF = hold-open device of the active leaf

SF = hold-open device inactive leaf, hold-open device active leaf over door coordination





¹⁾ Door leaf width ≤ 1250 mm, door leaf weight max. 160 kg

²⁾ Door leaf width ≤ 1400 mm

³⁾ EMF = TAB max. 1250 mm

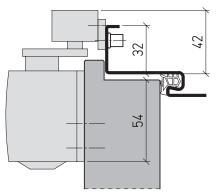
⁴⁾ max. active leaf width 1250 mm

Overhead door closers

Installation options for door closers with slide rail

Standard installation

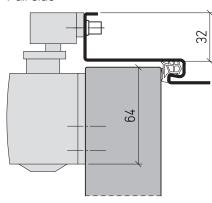
Pull side



Spiegel ≥ 40 mm ohne Zwischenplatte

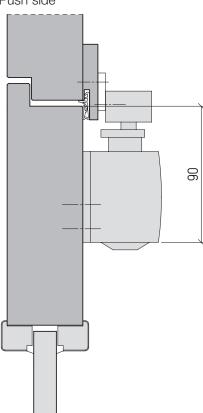
Standard installation

Pull side



Standard installation

Push side



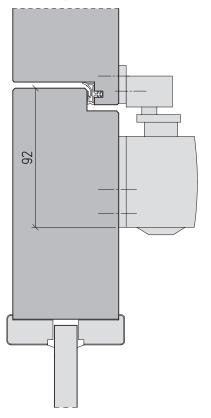
In combination with solid wooden frame, similar to unrebated door leaf edge with jamb rebate or counter rebated to the top panel respectively the transom.

Not for 2-leaf doors with door coordination.

Take the necessary frieze width for vision

Standard installation

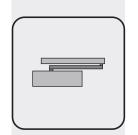
Push side, counter rebated door leaf edge



In combination with top panel



panels into account.



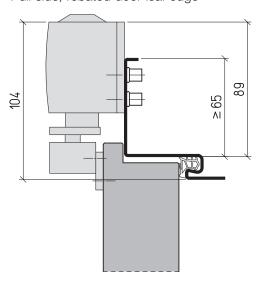
14.3

Overhead door closers

Installation options for door closers with slide rail

Transom installation

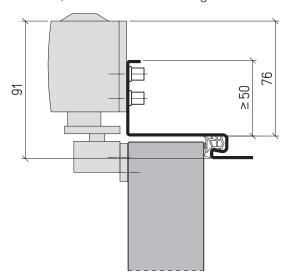
Pull side, rebated door leaf edge



For 1-leaf doors only

Transom installation

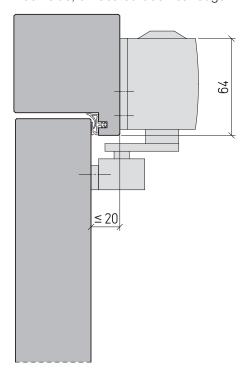
Pull side, unrebated door leaf edge



Similar to unrebated door leaf edge with jamb rebate or double-rebate (solid wooden frame), for 1-leaf doors only

Transom installation

Push side, unrebated door leaf edge

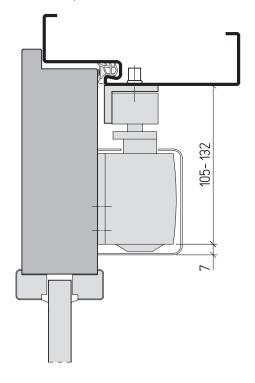


Similar to unrebated door leaf edge with jamb rebate or double-rebate.

Take the necessary solid wooden frame width into account.

Standard installation with bracket for transom installation

Push side, standard installation



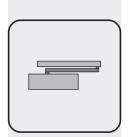
Rebated door leaf edge, similar to unrebated door leaf edge, unrebated with jamb rebate or double-rebate.

Take the necessary frieze width for vision panels into account.



14.3





Door closers

Overhead door closers

Door closer with slide rail, minimum dimensions 1-If doors

Standard installation

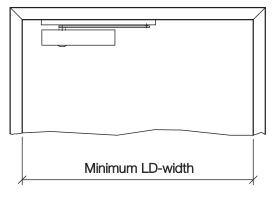
Pull side



Door closer type	LD-width (for single rebate)
TS FORM G	≥ 525 mm ≤ 1078 mm
GEZE TS 3000 V	≥ 525 mm ≤ 1078 mm
GEZE TS 5000 GEZE TS 5000 E GEZE TS 5000 R GEZE TS 5000 EFS GEZE TS 5000 RFS	≥ 525 mm ≥ 525 mm ≥ 740 mm ≥ 525 mm ≥ 735 mm
DORMA TS 93 DORMA TS 93 EMF DORMA TS 93 EMR DORMA TS 99 FL DORMA TS 99 FLR/K	≥ 540 mm ≥ 560 mm ≥ 760 mm ≥ 540 mm ≤ 1228 mm ≥ 760 mm ≤ 1228 mm

Standard installation with bracket for transom installation

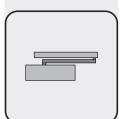
Standard installation, push side



Door closer type	LD-width
GEZE TS 5000 L	≥ 560 mm
DORMA TS 93 G	≥ 565 mm
DORMA TS 93 G EMF	≥ 575 mm

The stated minimum clear opening widths are valid for doorsets with rebated and unrebated door leaf edge. Depending on the official approval respectively the test certificate the minimum dimensions of the door set have to be taken into account.



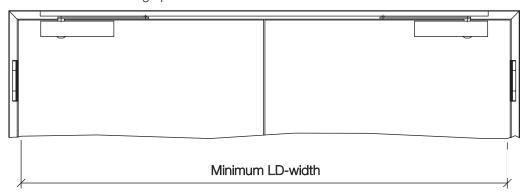


Door closer with slide rail, min. dimensions 2-If doors

14.3

Standard installation

Unrebated door leaf edge pull side



Type of the door closer	LD-width ¹⁾ with integrated door coordination in continous slide rail (for single rebate)	Inactive leaf width Door leaf edge Unrebated (S) Rebated (F) (TAM)
DORMA TS 93 GSR	≥ 1154 mm ≤ 3134 mm	EN 2 - 5
DORMA TS 93 GSR EMF 1 G	≥ 1154 mm ≤ 3134 mm	≥ 353 mm (S)
DORMA TS 93 GSR EMF 1	≥ 1154 mm ≤ 3134 mm	≥ 367 mm (F)
DORMA TS 93 GSR EMF 2	≥ 1154 mm ≤ 3134 mm	
DORMA TS 93 GSR EMR 1 G	≥ 1634 mm ≤ 3134 mm	EN 5 - 7
DORMA TS 93 GSR EMR 1	≥ 1634 mm ≤ 3134 mm	≥ 360 mm (S) ≥ 373 mm (F)
DORMA TS 93 GSR EMR 2	≥ 1634 mm ≤ 3134 mm	2010 111111 (1)
DORMA TS 93 GSR EMR V	≥ 1634 mm ≤ 3134 mm	
DORMA GF: TS 99 SF: TS 93 GSR DORMA	≥ 1154 mm ≤ 2434 mm	EN 2 - 5 ≥ 353 mm (S) ≥ 367 mm (F)
GF: TS 99 SF: TS 93 GSR EMF 1 DORMA	≥ 1154 mm ≤ 2434 mm	EN 5 - 7 ≥ 353 mm (S) ≥ 367 mm (F)
GF: TS 99 SF: TS 93 GSR EMR 1 DORMA	≥ 1154 mm ≤ 2434 mm	
GF: TS 99 SF: TS 93 GSR EMR V	≥ 1154 mm ≤ 2434 mm	
GEZE TS 5000-ISM	≥ 1234 mm ≤ 2734 mm ²⁾	≥ 391 mm (S)
GEZE TS 5000 E-ISM/G	≥ 1234 mm ≤ 2734 mm ²⁾	≥ 404 mm (F)
GEZE TS 5000 E-ISM	≥ 1234 mm ≤ 2734 mm ²⁾	/ '
GEZE TS 5000 R-ISM/G	≥ 1434 mm ≤ 2734 mm ²⁾	(mit Abdeckhaube
GEZE TS 5500 R-ISM	≥ 1434 mm ≤ 2734 mm ²⁾	Maß + 7 mm)
GEZE TS 5500 ISM-EFS	≥ 1234 mm ≤ 2734 mm ²⁾	
GEZE TS 5500 ISM-RFS	\geq 1434 mm \leq 2734 mm $^{2)}$	



Schörghuber

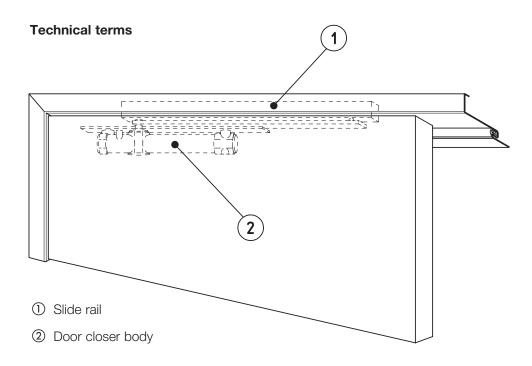
Door closer with slide rail

¹⁾ Larger widths on request

²⁾ Under certain circumstances up to 3134 mm

Overhead door closers

Concealed installation



Equipment

On request all 1- and 2-leaf Schörghuber Fire- and Smoke-Protection-Doors are available with concealed door closer with slide rail. The installation is permitted for steel and wooden frames and solid wooden frames, as well as in rebated and unrebated door leafs. The door sets can also be equipped with top panel or transom and fanlight.

Advantage

Everywhere where door sets are supposed to make a creative impression, the concealed door closer is recommended. This modern door fitting with the function and the advantages of a door closer with slide rail is embedded in the door leaf, respectively the door frame. It is not visible if the door is shut.

Therefore the unauthorised manipulation or damaging of the door closer is, to a large extend, precluded.

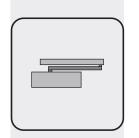
The concealed high-quality door closer offers the operating comfort of a normal door closer and a great range of functions and the adjustability of the closing pressure, the closing speed, the shock absorbing action and if necessary of an electromechanical hold-open device in the area of 80° and 110°. The DORMA ITS 96 and the GEZE Boxer are furthermore equipped with an opening damping action.

Schörghuber service

Schörghuber offers its customers a special service for the installation of the concealed door closer, which is especially extensive for 2-leaf door sets:

- The door closers are mounted within the door leaf.
- The slide rails are mounted within wooden frames, solid wooden frames and top panels. The
 on site installation of slide rails in steel frames is simplified by the mounting of dimensionally
 accurate wall protection boxes.
- For 2-leaf door sets, the door coordination of the DORMA ITS GSR is factory-mounted.





Overhead door closers

Concealed installation

Function overview

Type of the door closer 1-leaf door set	Adjust. closing pressure acc. to DIN EN 1154	Adjustable closing speed	Shock absorbing action	Adjustable opening damping action	Adjustable closing time delay	Electromechanical hold-open device approx.	Smoke switch	Door coordination concealed in the integrated slide rail
DORMA ITS 96	2 - 4	х	X					
DORMA ITS 96	3 - 6	Х	Х					
DORMA ITS 96 EMF	2 - 4	Х	X			80 - 110°	X 1)	
DORMA ITS 96 EMF	3 - 6 2)	Х	X			80 - 110°	X 1)	
GEZE Boxer	2 - 4	Х	X	х				
GEZE Boxer	3 - 6	Х	X	Х				
GEZE Boxer E	2 - 4	Х	Х	Х		80 - 110°	X 1)	
GEZE Boxer E	3 - 6	Х	X	Х		80 - 110°	X 1)	
2-leaf door set								
DORMA ITS 96 GSR	2 - 4	Х	Х					Х
DORMA ITS 96 GSR	3 - 6	Х	X					х
DORMA ITS 96 GSR	2 - 4	х	×			80 - 110°	X 1)	x
EMF								
DORMA ITS 96 GSR	3 - 6 2)	X	×			80 - 110°	X 1)	X
EMF								
GEZE Boxer ISM	2 - 4	Х	Х	Х				Х
GEZE Boxer ISM	3 - 6	Х	Х	Х				Х
GEZE Boxer E-ISM	2 - 4	Х	Х	Х		80 - 110°	X 1)	Х
GEZE Boxer E-ISM	3 - 6	Х	X	Х		80 - 110°	X 1)	Х

¹⁾ Only with external smoke switch (DORMA RMZ-K / GEZE RSZ 6)

EN 2-4: max. door leaf width (door rebate dimension) = 1100 mm

max. door leaf weight = 130 kg

EN 3-6: max. door leaf width (door rebate dimension) = 1400 mm²

max. door leaf weight = 180 kg

The aparture angle is, due to the door closer position within the frame rebate, limited to approximately 110°.

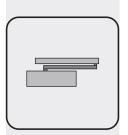
If concealed door closers are used in combination with steel frames, the wall opening height has to be extended by 10 mm (BR-height + 10 mm).

If ITS-door closers with electromechanical hold-open device and or door coordination are used in combination with steel and wooden wrap-around frames, the wall opening height has to be extended by 20 mm. (BR-height + 20 mm)



1134

²⁾ EMF: max. TAB 1250 mm



Overhead door closers

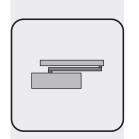
Concealed installation, minimum dimensions 1-If doors

Door closer type	Special configu- ration	LD-width (for single rebate) Rebated and unrebated
DORMA ITS 96 EN 2-4		≥ 585 mm ≤ 1078 mm
DORMA ITS 96 EN 2-4	X	≥ 415 mm ≤ 584 mm
DORMA ITS 96 EN 3-6		≥ 585 mm ≤ 1378 mm
DORMA ITS 96 EN 3-6	Х	≥ 415 mm ≤ 584 mm
DORMA ITS 96 EMF EN 2-4		≥ 615 mm ≤ 1078 mm
DORMA ITS 96 EMF EN 2-4	Х	≥ 455 mm ≤ 614 mm
DORMA ITS 96 EMF EN 3 - 6		≥ 615 mm ≤ 1378 mm
DORMA ITS 96 EMF EN 3-6	x	≥ 455 mm ≤ 614 mm

Door closer type	Special configu-	LD-width (for single rebate) 1)				
	ration	Rebated	Unrebated			
GEZE Boxer EN 2-4		≥ 531 mm ≤ 1078 mm	≥ 549 mm ≤ 1078 mm			
GEZE Boxer EN 3 - 6		≥ 531 mm ≤ 1378 mm	≥ 549 mm ≤ 1078 mm			
GEZE Boxer E EN 2-4		≥ 531 mm ≤ 1078 mm	≥ 549 mm ≤ 1378 mm			
GEZE Boxer E EN 3-6		≥ 531 mm ≤ 1378 mm	≥ 549 mm ≤ 1378 mm			

¹⁾ Special dimensions possible on request





14.4

Overhead door closers

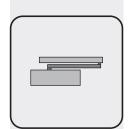
Concealed installation, minimum dimensions 2-lf doors

Door closer type	Special configu- ration	LD-width (for single rebate) Rebated and unrebated	Minimum width inactive leaf TFM
DORMA ITS 96 GSR EN 2-4		≥ 1376 mm ≤ 2184 mm	696 mm
DORMA ITS 96 GSR EN 2-4	Х	≥ 1045 mm ≤ 1475 mm	536 mm
DORMA ITS 96 GSR EN 3-6		≥ 1376 mm ≤ 2784 mm	696 mm
DORMA ITS 96 GSR EN 3-6	Х	≥ 1045 mm ≤ 1475 mm	536 mm
DORMA ITS 96 GSR EMF EN 2-4		≥ 1376 mm ≤ 2184 mm	696 mm
DORMA ITS 96 GSR EMF EN 2-4	Х	≥ 1045 mm ≤ 1475 mm	536 mm
DORMA ITS 96 GSR EMF EN 3-6		≥ 1376 mm ≤ 2784 mm	969 mm
DORMA ITS 96 GSR EMF EN 3-6	x	≥ 1045 mm ≤ 1475 mm	536 mm

Door closer type	Special configu- ration	LD-width (for single rebate) Rebated	Minimum width inactive leaf TFM
GEZE Boxer ISM EN 2-4		≥ 1282 mm ≤ 2184 mm	632 mm
GEZE Boxer ISM EN 2-4	x	≥ 1074 mm ≤ 1218 mm	522 mm
GEZE Boxer ISM EN 3-6		≥ 1282 mm ≤ 2784 mm	632 mm
GEZE Boxer ISM EN 3-6	Х	≥ 1074 mm ≤ 1218 mm	522 mm
GEZE Boxer E-ISM EN 2-4		≥ 1282 mm ≤ 2184 mm	632 mm
GEZE Boxer E-ISM EN 2-4	х	≥ 1074 mm ≤ 1218 mm	522 mm
GEZE Boxer E-ISM EN 3-6		≥ 1282 mm ≤ 2784 mm	632 mm
GEZE Boxer E-ISM EN 3-6	×	≥ 1074 mm ≤ 1218 mm	522 mm

Door closer type	Special configuration	LD-width (for single rebate) Unrebated	Minimum width inactive leaf TFM
GEZE Boxer ISM EN 2-4		≥ 1318 mm ≤ 2184 mm	650 mm
GEZE Boxer ISM EN 2-4	x	≥ 1110 mm ≤ 1317 mm	540 mm
GEZE Boxer ISM EN 3-6		≥ 1318 mm ≤ 2784 mm	650 mm
GEZE Boxer ISM EN 3-6	x	≥ 1110 mm ≤ 1317 mm	540 mm
GEZE Boxer E-ISM EN 2-4		≥ 1318 mm ≤ 2184 mm	650 mm
GEZE Boxer E-ISM EN 2-4	X	≥ 1110 mm ≤ 1317 mm	540 mm
GEZE Boxer E-ISM EN 3-6		≥ 1318 mm ≤ 2784 mm	650 mm
GEZE Boxer E-ISM EN 3-6	X	≥ 1110 mm ≤ 1317 mm	540 mm



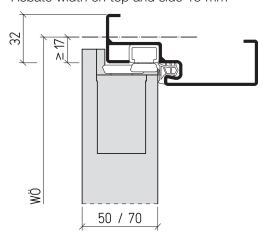


Overhead door closers

Concealed installation

Concealed installation in steel frame

Rebate width on top and side 15 mm

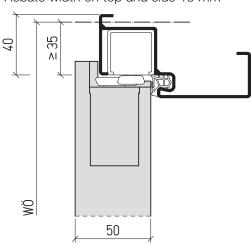


Rebated door leaf edge, similar to unrebated door leaf edge / unrebated with jamb rebate.

Face width 1-leaf door set: DORMA ITS 96 \geq 32 mm GEZE Boxer \geq 32 mm

Concealed installation in steel frame

Rebate width on top and side 15 mm



Rebated door leaf edge, similar to unrebated door leaf edge.

Face width 1-leaf door set:

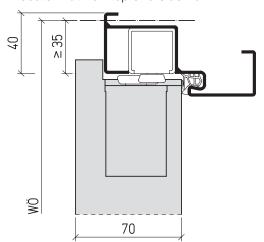
DORMA ITS 96 EMF \geq 40 mm GEZE Boxer E \geq 40 mm

Face width 2-leaf door set:

DORMA ITS 96 GSR \geq 40 mmDORMA ITS 96 GSR EMF \geq 40 mmGEZE Boxer ISM \geq 40 mmGEZE Boxer ISM E-ISM \geq 40 mm

Concealed installation in steel frame

Rebate width on top and side 15 mm



Rebated door leaf edge, also possible for unrebated door leafs with jamb rebate.

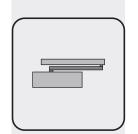
Face width 1-leaf door set:

DORMA ITS 96 EMF \geq 40 mm GEZE Boxer E \geq 40 mm

Face width 2-leaf door set:

DORMA ITS 96 GSR≥ 40 mmDORMA ITS 96 GSR EMF≥ 40 mmGEZE Boxer ISM≥ 40 mmGEZE Boxer ISM E-ISM≥ 40 mm



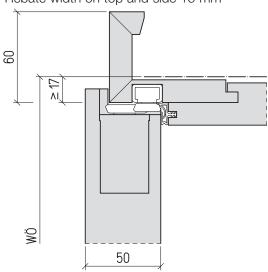


Overhead door closers

Concealed installation

Concealed installation in wooden wraparound frame

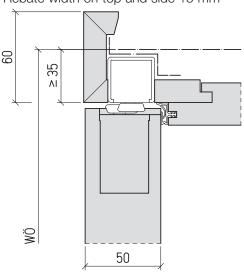
Rebate width on top and side 15 mm



Rebated door leaf edge / example without locking device

Concealed installation in wooden wraparound frame

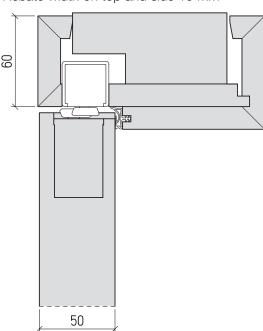
Rebate width on top and side 15 mm



Unrebated door leaf edge / example with locking device

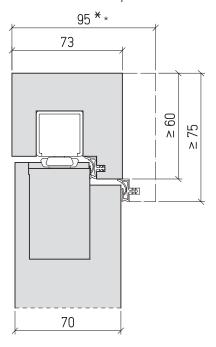
Concealed installation in wooden block frame Concealed installation in solid wooden frame

Rebate width on top and side 15 mm



Unrebated door leaf edge, similar to rebated door leaf edge.

Rebate width on top and side 15 mm



Unrebated door leaf edge with jamb rebate for 70 mm or 73 mm thick doors. Solid wooden frame width ≥ 60 / 73 mm.

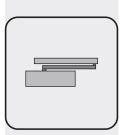
* for higher Sound-Isulation, starting at Rw,P 37 dB



DORMA ITS 96 / GEZE Boxer DORMA ITS 96 EMF / GEZE Boxer E DORMA ITS 96 GSR / GEZE Boxer ISM

 \geq 35 mm / T90 \geq 45 mm \geq 40 mm / T90 \geq 45 mm $T90/T30 \ge 45 \text{ mm} / \text{RS} \ge 40 \text{ mm} / \text{Heavy-Duty} \ge 40 \text{ mm}$ DORMA ITS 96 GSR EMF / GEZE Boxer E-ISM T90/T30 ≥ 45 mm / RS ≥ 40 mm / Heavy-Duty ≥ 40 mm





Overhead door closers

Concealed door closer with free-swing function

Understated, discreet hardware design combined with the advantages of the free-swing function are the tademark of the integrated door closer with free-swing function. Free-swing means that the user can operate the door without resistance in both the opening and closing direction.

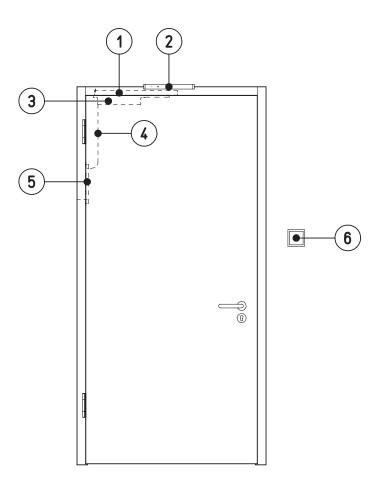
The free-swing function is activated through a single opening of the door (e.g. in the morning). Hereby the closing power of the door closer is mechanically stored. In the event of a fire or a power outage the stored energy is discharged again and the door closes self-actuating.

1-leaf door: **GEZE BOXER EFS** (EN 4, door leaf width ≤ 1100 mm)

FORM EFS-I (EN 2-5, door leaf width ≤ 1250 mm)

2-leaf door: **GEZE BOXER EFS-ISM** (EN 4, door leaf width \leq 1100 mm)

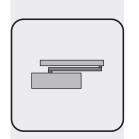
FORM EFS-I-ISM (EN 2-5, door leaf width ≤ 1250 mm)



1 Slide rail

- (4) Concealed cable inlet in the door leaf
- 2 Smoke switch control unit
- (5) Concealed cable transition
- 3 Door closer body
- **6** Breaker switch





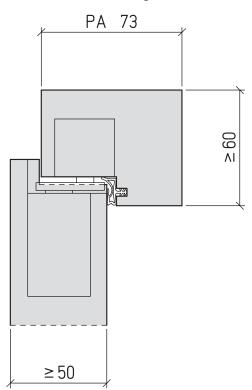
14.4

Overhead door closers

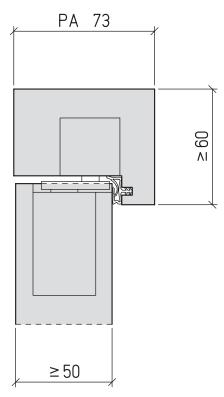
Concealed door closer with free-swing function

GEZE Boxer EFS

Rebated door leaf edge



Unrebated door leaf edge



On request with:

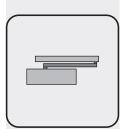
- steel frame
- Wooden wrap-around frame
- Wooden block frame
- Special installation: transom installation

Frame rebate vertically 15 mm, top horizontally 30 mm

Take space for slide rail in the height of steel and wooden wrap-around frames into account.

1-leaf door: wall opening = BR + 10 mm 2-leaf door: wall opening = BR + 20 mm





Overhead door closers

Concealed door closer with free-swing function

GEZE Boxer EFS

Function overview

Field of application T 30 / RS / T 90 / Heavy-Duty

1-leaf doors

Closing force EN 4
Closing speed adjustable
Shock absorbing action Aperture angle approx. 110°

Door leaf weight maximum of 130 kg for a door leaf width of 1100 mm

Max. door leaf width \geq 570 mm \leq 1078 mm (rebated) \geq 588 mm \leq 1078 mm (unrebated)

Equipment

Power supply 24 V DC, factory-equipped connection cable, concealed in the

door leaf, cable transition in the door rebate.

Smoke switch

control unit RSZ 6 or RSZ 5 (provided by customer,

available for additional charge).

Smoke switch RS 6 or RS 5 (provided by customer,

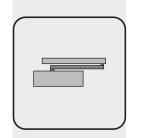
available for additional charge).

Breaker switch Necessary, on site provided

Door stop Might be necessary according to mounting situation,

on site provided





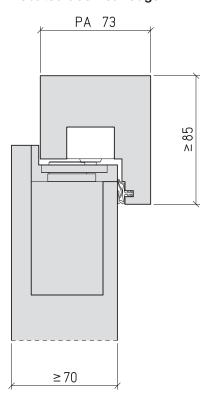
14.4

Overhead door closers

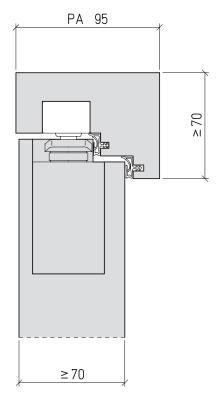
Concealed door closer with free-swing function

FORM EFS-I

Rebated door leaf edge



Unrebated door leaf edge with jamb rebate



On request with:

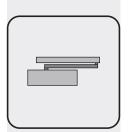
- steel frame
- Wooden wrap-around frame
- Wooden block frame
- Special installation: transom installation

Frame rebate vertically 15 mm, top horizontally 30 mm

Take space for slide rail in the height of steel and wooden wrap-around frames into account.

1-leaf door: wall opening = BR + 10 mm 2-leaf door: wall opening = BR + 20 mm





Overhead door closers

Concealed door closer with free-swing function

FORM EFS-I

Function overview

Field of application T 30 / RS / T 90 (Type 91 N / 92 N) / Heavy-Duty

1-leaf doors

Closing force EN 2 - 5 Closing speed adjustable Shock absorbing action adjustable

approx. 120° (rebated), ca. 130° (unrebated) Aperture angle

maximum of 170 kg for a door leaf width of 1250 mm Door leaf weight

≥ 538 mm ≤ 1228 mm Max. door leaf width

Equipment

Power supply 24 V DC, factory-equipped connection cable, concealed in the

door leaf, cable transition in the door rebate.

Smoke switch

control unit RSZ 6 or RSZ 5 (provided by customer,

available for additional charge).

Smoke switch RS 6 or RS 5 (provided by customer,

available for additional charge).

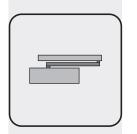
Breaker switch Necessary, on site provided

Door stop Might be necessary according to mounting situation,

on site provided







14.4

Overhead door closers

Concealed door closer with free-swing function

GEZE Boxer EFS-ISM

Function overview

Field of application T 30 / RS / T 90 / Heavy-Duty

2-leaf doors (free-swing function on active leaf) Active leaf EN 4 / inactive leaf EN 2 - 4 or 3 - 6

Closing force Active leaf EN 4 / inactive leaf EN 2 - 4 or 3 - 6 adjustable

Shock absorbing action adjustable Aperture angle adjustable approx. 110°

Door leaf weight maximum of 130 kg for a door leaf width of 1100 mm

Max. door leaf width ≥ 1320 mm ≤ approx. 2184 mm

FORM EFS-I-ISM

Function overview

Field of application T 30 / RS / T 90 (Type 91 N / 92 N) / Heavy-Duty

2-leaf doors (free-swing function on active leaf)

Closing force Active leaf EN 2 - 5 / inactive leaf EN 2 - 4 or 3 - 6

Closing speed adjustable
Shock absorbing action adjustable
Aperture angle approx. 120°

Door leaf weight maximum of 170 kg for a door leaf width of 1250 mm

Max. door leaf width ≥ 1320 mm ≤ approx. 2650 mm

Equipment

Power supply 24 V DC, factory-equipped connection cable, concealed in the

door leaf, cable transition in the door rebate.

Smoke switch

control unit RSZ 6 or RSZ 5 (provided by customer,

available for additional charge).

Smoke switch RS 6 or RS 5 (provided by customer,

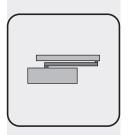
available for additional charge).

Breaker switch Necessary, on site provided

Door stop Might be necessary according to mounting situation,

on site provided





14.5

Floor-mounted door closer

Configurations

Equipment

As an alternative to overhead door closers Schörghuber offers floor-mounted door closer (BTS) for 1- and 2-leaf Fire- and Smoke-Protection-Doors in various configurations for all frame versions.

- BTS with pivot hinges, the door hinges are dispensed (not for T 90)
- BTS with attached slide rail and with door hinges
- BTS with integrated slide rail and door hinges

The space needed in the floor for the door closers, its protective box (cement box) and mounting rail with the frame is at least 65 mm between unfinished floor and surface finished floor (OFF). The floor recess of the frame has to be at least \geq 45 mm. The cement box has to be, according to manufacturer instructions, mounted within a layer of mortar and so be firmly attached to the unfinished floor.

Advantage

The advantage of the floor-mounted door closer is the high bearing force and therefore the reliability of the system. Furthermore, due to the multiple functions, the visual appearance of the door set is not disturbed, because the door closer is embedded in the floor.

The opening of the door is not hindered by projecting parts of the door closer, therefore, under consideration of the handles, an aperture angle and hold-open angle of 180° is possible.

Chapter "Dimensions"

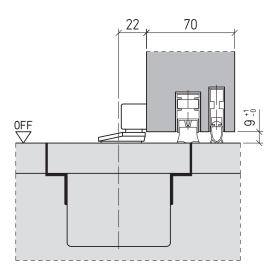
The standard equipment of the floor-mounted door closer usually includes the adjustability of the closing pressure (except DORMA BTS 80), the closing speed and the shock absorbing action. The cover plates of the floor-mounted door closers are by default made of stainless steel.

The protective caps of the pivot hinges are made of anodised light metal or matched in colour to the cover plates.

Floor-mounted door closer for continous floor covering

Rebated door leaf edge

Example with attached slide rail



Unrebated door leaf edge or unrebated with jamb rebate

Example with pivot hinges

OFF

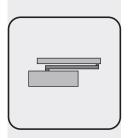
Another advantage of this version, which can be equipped with all of the configurations mentioned above, is the additional optical revaluation due to the possibility to lay the floor covering (stone, parquet, carpet etc.) continuously.

The standard cover plate is replaced with a segment of the floor covering, which is preassembled in an angular frame made of stainless steel.

Depending on the equipment of a door set with floor-mounted door closer the sound-insulation function can be slightly lowered.



Schörghuber



14.5

Floor-mounted door closer

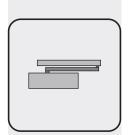
Configurations

Function overview

Type of the door closer 1-leaf door sets	Adjust. closing pressure acc. to DIN EN 1154	Adjustable closing speed	Shock absorbing action	Opening damping action (not adjustable)	Closing time delay	Electrohydraulic hold-open device	Electromechanic hold-open device approx.	Free-swing function with integrated hold-open device	Concealed door coordination in the floor
GEZE TS 550 F with pivot hinges	3 - 6	Х	Х						
GEZE TS 550 NV	3 - 6	х	х	Х	X				х
GEZE TS 550 F-G in combination with hinges and attached slide rail	3 - 6	Х	Х						
GEZE TS 550 F-G in combination with hinges and integrated slide rail	3 - 6	Х	х						
GEZE TS 550 E with pivot hinges	3 - 6	х	х				80-180°		
GEZE TS 550 E-G in combination with hinges and attached slide rail	3 - 6	Х	Х				80-160°		
GEZE TS 550 E-G in combination with hinges and integrated slide rail	3 - 6	Х	Х				80-160°		
DORMA BTS 80 F	4/5/6	Х	х	Х					
DORMA BTS 80 EMB	4/5/6	Х	Х	X		75-180°			
DORMA BTS 80 FLB	4/5/6	Х		Х				Х	
2-leaf door sets									
GEZE TS 550 IS with pivot bearing	3 - 6	х	х						х
GEZE TS 550 IS in combination with hinges and attached slide rail	3 - 6	Х	Х						Х
GEZE TS 550 IS in combination with hinges and integrated slide rail	3 - 6	Х	Х						Х
GEZE TS 550 E-IS with pivot bearing	3 - 6	Х	Х				80-180°		Х
GEZE TS 550 E-IS in combination with hinges and attached slide rail	3 - 6	х	Х				80-150°		Х
GEZE TS 550 E-IS in combination with hinges and integrated slide rail	3 - 6	Х	Х				80-150°		Х

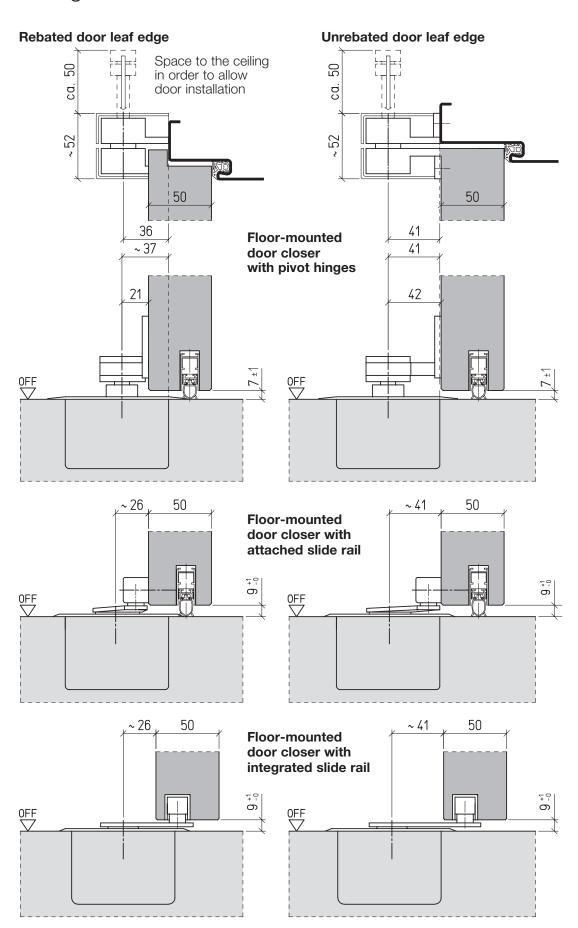
The door leafs of 2-leaf door sets equipped with floor-mounted door closers and pivot hinges might get wedged. In order to avoid this effect limitations in the minimum LD-width are possible. → Chapter "Dimensions"



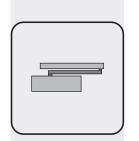


Floor-mounted door closer

Configurations, thickness of door leaf 50 mm



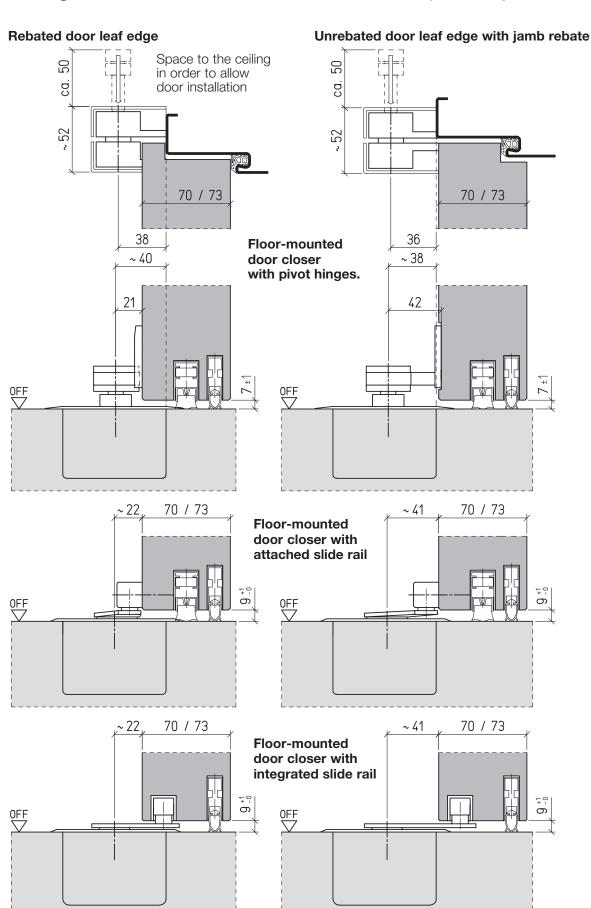




14.5

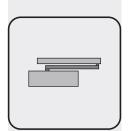
Floor-mounted door closer

Configurations, thickness of door leaf 70 respectively 73 mm





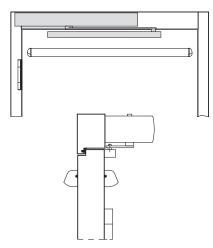
Schörghuber



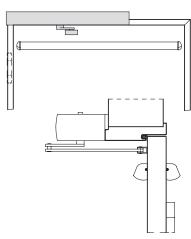
Automatic door operators

Configurations

Pull side



Push side



General information

Automatic door operators offer a special comfort in operating doors. The door opens automatically as soon as an impulse is triggered. Everywhere where a lot of goods are transported or in areas with a lot of foot traffic, e.g. hospitals, nursing homes, administrations, hotels, restaurants and shopping centres, these door closers are used.

The activation can be triggered contactless by sensors or by e.g. a pushbutton. Additional options are for example the triggering via handle operation or the so called Push and Go function, at which the door is manually opened a couple of degrees and then the automatic opening process is activated by the integrated swing angle scan.

Security

The new standard DIN 18650 centres especially the security of the door users. The most important part of this standard is the realisation of the so called hazard analysis. The required security equipment is coordinated and recorded on site, between user and manufacturer of the door operator. For this purpose please directly contact DORMA (www.dorma.com) respectively GEZE (www.geze.com).

The Schörghuber delivery set:

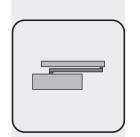
- · Automatic door operator with mounting plate and fastening screws
- Pilot holes on door leaf and frame
- Arms / slide rail depending on model and its design
- Door operator DORMA 447 FS or 117 RS
- Bolt switch contact eff eff 878 (shutdown function if bolt is locked)
- Integrated program switch (for high doors possibly not accessible, therefore if necessary to be added additionally on site)
- Concealed cable channels within a door set if specially ordered

Necessary efforts on site:

- Hazard analysis by the manufacturer of the door operator
- Impulse transmitter (triggering device)
- Sensor rail (security equipment according to the hazard analysis)
- Smoke detector (obtainable on additional charge)
- Take cable channels and electric installations into account
- · Filling of the cavities if necessary and upper fixing material
- Emergency stop switch and "door closing switch"
- Initial operation by the manufacturer of the automatic door operator or an authorised personnel

We recommend to coordinate the on site efforts with the responsible planners / crafts.





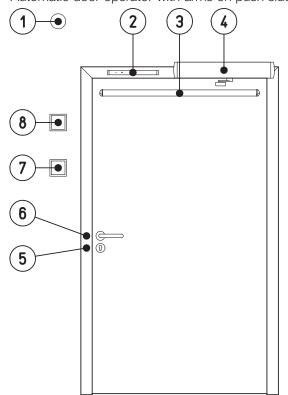
14.6

Automatic door operators

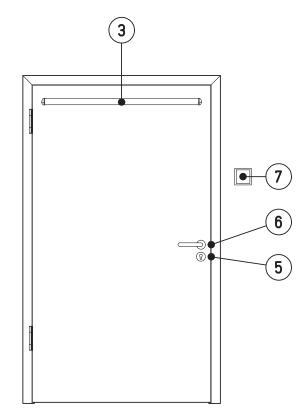
Configurations

Equipment examples

Automatic door operator with arms on push side



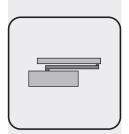
Push side view



Pull side view

- On request with additional smoke detector
- 2) Smoke switch control unit
- Motion detector / security sensor
- (4) Door operator
- (5) Bolt switch contact
- **6** Electrical strike
- 7 On request with pushbutton
- 8 On request with external program switch



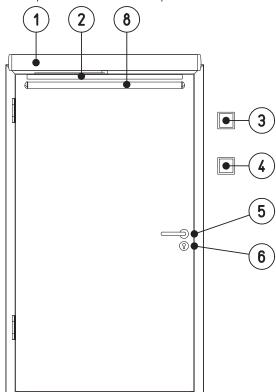


Automatic door operators

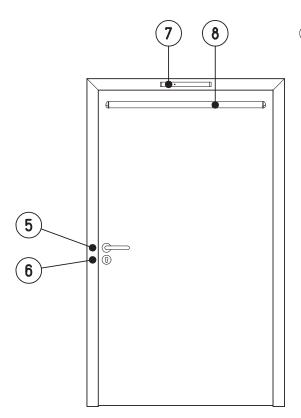
Configurations

Equipment examples

Automatic door operator with arms on pull side

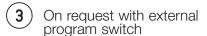


Pull side view



1 Door operator

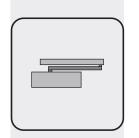




- (4) On request with pushbutton
- **5** Electrical strike
- (6) Bolt switch contact
- (7) Smoke switch control unit
- 8 Motion detector / security sensor
- On request with additional smoke detector



Push side view

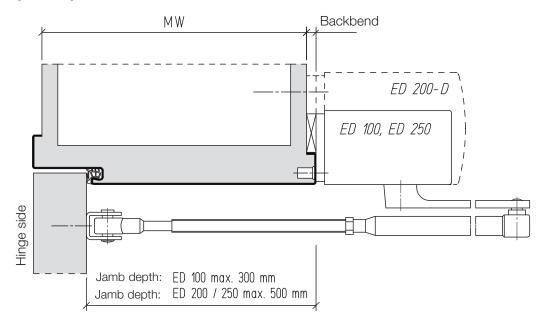


14.6

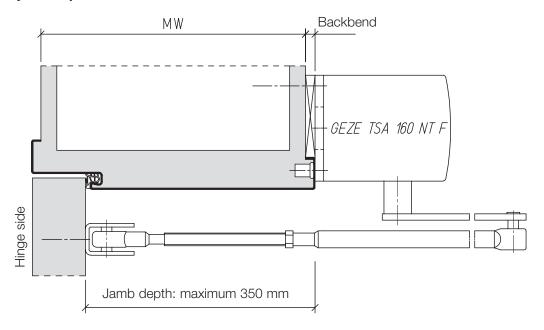
Automatic door operators

Configurations

DORMA ED 200-D, ED 100 and ED 250 / Transom installation on push side – jamb depth of -40 to 500 mm

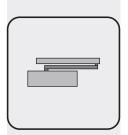


GEZE TSA 160 NT F / Transom installation on push side – jamb depth of 0 to 350 mm





7



Automatic door operators

Configurations

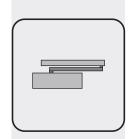
Function overview

Type of the door operator 1-leaf door sets	Adjust. closing pressure according to EN 1154	Adjustable closing speed	Shock absorbing action	Adjustable hold-open time	Set-up "permanently open"	Adjustable opening damping action	Integrated door coordination	Maximum power consumption 24 V DC	Length x depth x height [mm] 2-leaf door with continuous cladding
DORMA ED 200-D	4-6/7	Х		х	Х	х		1500	665 x 133 x 106
DORMA ED 100	2 - 4	Х	Х	X	Х	X		1500	700 x 120 x 70
DORMA ED 250	4 - 6	х	Х	Х	х	х		1500	700 x 120 x 70
GEZE TSA 160 NT F	3 - 6	Х	Х	X	Х	X		1200	690 x 120 x 100
GEZE SLIMDRIVE EMD-F	3 - 6	Х	Х	X	X	X		1000	690 x 120 x 70
2-leaf door sets with an operator for the active leaf									
DORMA ED 200-D ESR 1/2 1)	4-6/7	х		Х	Х	х	Х	1500	Length x 133 x 106
DORMA ED 100 ESR 1/2 1)	4 - 6	Х	Х	Х	Х	Х	Х	1500	Length x 120 x 70
DORMA ED 250 ESR 1/2 1)	4 - 6	Х	Х	Х	Х	Х	Х	1500	Length x 120 x 70
GEZE TSA 160 NT F-IS/TS	3 - 6	Х	Х	Х	Х	Х	Х	1200	Length x 120 x 100
2-leaf door sets with an operator for the active and the inactive leaf									
DORMA ED 200-D ESR	4-6/7	х		х	х	х	х	1500	Length x 133 x 106
DORMA ED 100 ESR	2 - 4	Х	Х	Х	Х	Х	Х	1500	Length x 120 x 70
DORMA ED 250 ESR	4 - 6	Х	Х	Х	Х	Х	Х	1500	Length x 120 x 70
GEZE TSA 160 NT F-IS	3 - 6	Х	Х	Х	Х	Х	Х	1200	Length x 120 x 100
GEZE Slimdrive EMD-F-IS	3 - 6	x	Х	x	x	×	x	1000	Length x 120 x 100

¹⁾ with integrated hold-open device on inactive leaf

All Schörghuber 1-leaf doors can be equipped and ordered with an automatic door operator. Automatic door operators on active and inactive leaf are possible for all Schörghuber 2-leaf doors. For type 4 N, 14 N up to a maximum LD of 2186 x 2218 mm.





14.6

Automatic door operators

Configurations

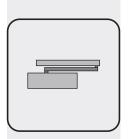
Possible clear opening widths for 1-leaf doors

Type of the door closer	Installation options	Minimum LD-width 1)	Maximum LD-width 1)
DORMA ED 200-D EN 4 - 6	Transom installation GBS	595 mm	1378 mm
DORMA ED 200 D EN 7	Transom installation GBS	595 mm	1578 mm
DORMA ED 100	Transom installation BS	678 mm	1078 mm
DORMA ED 100	Transom installation GBS	678 mm	1078 mm
DORMA ED 250	Transom installation BS	678 mm	1378 mm
GEZE TSA 160 F	Transom installation GBS	678 mm	1378 mm
GEZE TSA 160 NT F	Transom installation GBS	668 mm	1378 mm
GEZE Slimdrive EMD F	Transom installation BS	850 mm	1378 mm
GEZE Slimdrive EMD F	Transom installation GBS	850 mm	1378 mm

¹⁾ frame-dependent approximate values

BS = Pull side GBS = Push side





Automatic door operators

Configurations

Possible clear opening widths for 2-leaf doors

Type of the door closer	Installation options	Minimum LD-width 1)	Maximum LD-width 1)
DORMA ED 200-D ESR EN 4 - 6	Transom installation GBS	1224 mm	2784 mm
DORMA ED 200 D ESR EN 7	Transom installation GBS	1224 mm	3184 mm
DORMA ED 200 D ESR-1/2 EN 4 - 6	Transom installation GBS	1224 mm	2784 mm
DORMA ED 200 D ESR-1/2 EN 7	Transom installation GBS	1224 mm	3184 mm
DORMA ED 100 ESR 2)	Transom installation BS	1384 mm	2134 mm
DORMA ED 100 ESR	Transom installation GBS	1384 mm	2134 mm
DORMA ED 100 ESR-1/2 2)	Transom installation BS	1384 mm	2134 mm
DORMA ED 100 ESR-1/2	Transom installation GBS	1384 mm	2134 mm
DORMA ED 250 ESR 2)	Transom installation BS	1384 mm	2734 mm
DORMA ED 250 ESR	Transom installation GBS	1384 mm	2734 mm
DORMA ED 250 ESR-1/2 ²⁾	Transom installation BS	1384 mm	2734 mm
DORMA ED 250 ESR-1/2	Transom installation GBS	1384 mm	2734 mm
GEZE TSA 160 NT F-IS	Transom installation GBS	1404 mm	2734 mm
GEZE TSA 160 NT F-IS/TS	Transom installation GBS	1194 mm	2734 mm
GEZE Slimdrive EMD F-IS ²⁾	Transom installation BS	1634 mm	2434 mm
GEZESlimdrive EMD F-IS ²⁾	Transom installation GBS	1634 mm	2434 mm
GEZE Slimdrive EMD F-IS 3)	Transom installation GBS	1434 mm	2734 mm

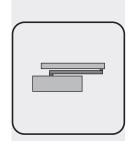
¹⁾ frame-dependent approximate values

BS = Pull side GBS = Push side



²⁾ with slide rail

³⁾ with rods

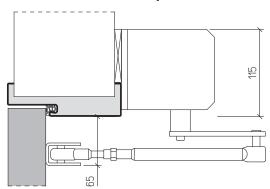


14.6

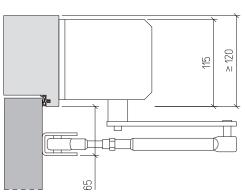
Automatic door operators

Installation options DORMA ED 200-D / GEZE TSA 160 NT F

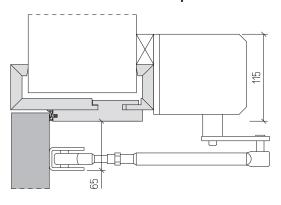
Door set with steel wrap-around frame



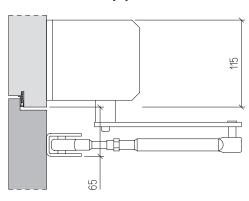
Door set with solid wooden block frame



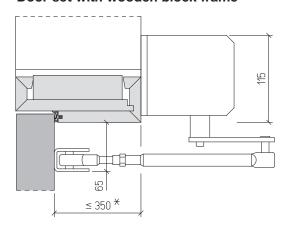
Door set with wooden wrap-around frame



Door set with top panel



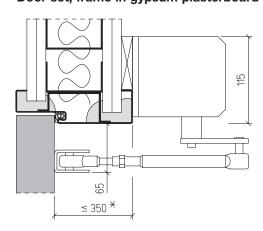
Door set with wooden block frame



* Possible jamb depths DORMA ≤ 500 mm GEZE ≤ 350 mm

Unrebated door leaf edge, analog for unrebated door leaf edge with jamb rebate or rebated door leaf edge

Door set, frame in gypsum plasterboard wall

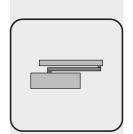


For the installation in gypsum plasterboard walls the following construction details are absolutely essential.

- On site reinforement of the horizontal top connection with two u- profiles,, thickness 2 mm
- Steel frame sheet thickness 2 mm



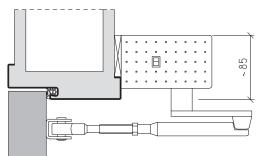
1156



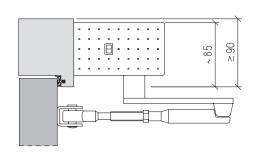
Automatic door operators

Installation options DORMA ED 100 / ED 250

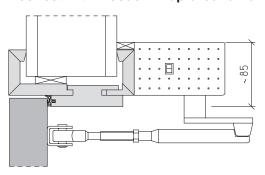
Door set with steel wrap-around frame



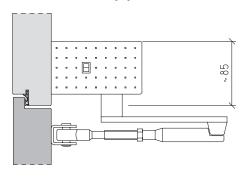
Door set with solid wooden block frame



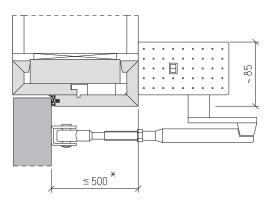
Door set with wooden wrap-around frame



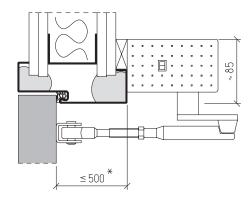
Door set with top panel



Door set with wooden block frame



Door set, frame in gypsum plasterboard wall



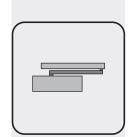
* Possible jamb depths
DORMA ED 100: ≤ 300 mm
DORMA ED 250: ≤ 500 mm

Unrebated door leaf edge, analog for unrebated door leaf edge with jamb rebate or rebated door leaf edge

For the installation in gypsum plasterboard walls the following construction details are absolutely essential.

- On site reinforement of the horizontal top connection with two u- profiles,, thickness 2 mm
- Steel frame sheet thickness 2 mm





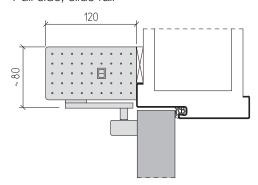
Automatic door operators

Installation options DORMA ED 100 / ED 250

14.6

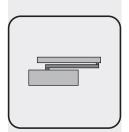
Transom installation

Pull side, slide rail







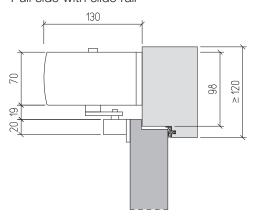


Automatic door operators

Installation options GEZE SLIMDRIVE EMD

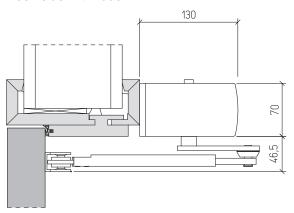
Transom installation

Pull side with slide rail



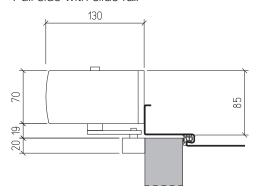
Transom installation

Push side with rods



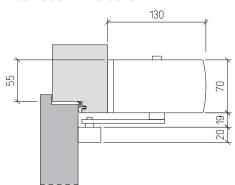
Transom installation

Pull side with slide rail

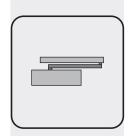


Transom installation

Push side with slide rail







14.6

Automatic door operators

Sizes

In order to guarantee the flawless functioning of automatic door operators it is absolutely essential to take the manufaturers instructions concening the maximum door leaf dimensions and weights into account. External influnces, such as draft air or different pressure conditions can have negative impacts on the functioning and need to be considered during the planning phase.

Maximum door leaf weigths

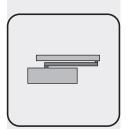
	Transom inst on push side, rod length	Transom inst on pull side, slide rail	Türbreite TFM 1000 mm	Door width TFM 1100 mm	Door width TFM 1250 mm	Door width TFM 1400 mm	Door width TFM 1400 mm
DORMA ED 200-D EN 4-6	X		300 kg	300 kg	300 kg	250 kg	
DORMA ED 200-D EN 7	Х					300 kg	250 kg
DORMA ED 100	Х		100 kg	100 kg			
DORMA ED 100		Х	100 kg	100 kg			
DORMA ED 250	Х		250 kg ²⁾	250 kg ²⁾	250 kg ²⁾	250 kg ²⁾	
DORMA ED 250		Χ	250 kg	250 kg	250 kg		

¹⁾ for jamb depths of maximum 360 mm

²⁾ for jamb depths 301 – 500 mm max. 120 kg

	Transom inst on push side, rod length	Transom inst on pull side, slide rail	Türbreite	Door width TFM 1100 mm	Door width TFM 1250 mm	Door width TFM 1400 mm	Door width TFM 1400 mm
GEZE TSA 160 NT F	X		250 kg	250 kg	250 kg	250 kg	
GEZE Slimdrive EMD-F	X		230 kg	210 kg	180 kg	140 kg	
GEZE Slimdrive EMD-F		X	185 kg	170 kg	145 kg	115 kg	





Overhead door closers

For smoke and heat venting systems

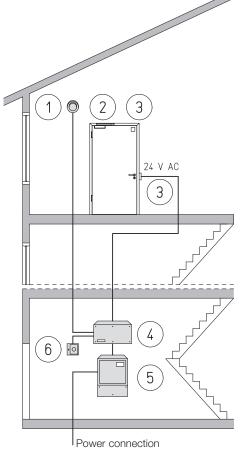
During the event of a fire smoke gases as well as heat energies evolve, which can, due to the thermal lift, fill the room or building completely within a short period of time. These toxic gases and the heat emission represent a great danger for escaping persons as well as for rescue personnel and need to be deaerated as fast as possible. For this purbose different smoke and heat venting systems (SHEVs) are on offer.

System solution with overhead door closer

For a smoke and heat venting system (SHEV) the following components are required:

- 1 Smoke and heat switches
- 2 Suitable door closer for a SHEV
- Blectromagnet, for small door sets on request with electrical strike, 24 V DC with electric torque pulsed voltage
- (4) Control unit
- (5) Emergency power supply
- **6** Pushbutton

Note: In many cases a door stop is necessary

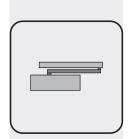


Since these doors open in the event of a fire depending on the building situation to deaerate the smoke gases or introduce fresh air (ventilation opening), smoke and heat venting systems (SHEVs) are **not** classified as fire and smoke-protection systems.

Depending on their use and the desired comfort smoke and heat venting systems (SHEVs) are often technically realised in the following configuration:

- Overhead door closers respectively integrated door closers with opening function
- Automatic door operators
- Standard door closers and an additional colapsable arm motor



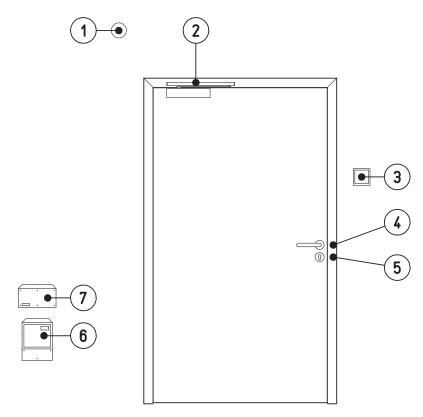


14.7

Overhead door closers

For smoke and heat venting systems

- System solution with overhead door closer



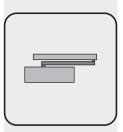
- 1 Smoke and heat switches
- Overhead door closer with slide rail (e.g. standard installation on pull side)
- 3 Pushbutton
- 4 Electrical strike

- (5) |Bolt switch contact
- 6 Control unit
- (7) Emergency power supply

Due to the door closer being under constant opening pressure while the door is closed, the perpetration comfort of this door set with standard door closer is very limited, especially if the door is opened from the pull side!

It is recommended to use door closers with free-swing function for door sets which are used on a daily basis. Here the opening power is discharged only in the event of an alarm.





Overhead door closers

For smoke and heat venting systems

Functional description

Opening of the door

Manual:

- By operating a pushbutton or other impulse transmitter the door opener is released. The door closer, under spring tension, opens the door.
- By operating the door handles the door can also be opened without activating the smoke and heat exhaust vent system.

Automatic:

- By activating the smoke and heat switches the impulse is transmitted to the the door opener and it releases the door.
- Door aperture angles are limited to approximately 90° (otherwise the door closer could possibly be damaged).

Closing of the door

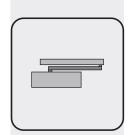
The operated pushbutton and/or the smoke and heat switches have to be reset.
 Afterwards the door has to be pushed shut by hand, against the pressure of the door closer, which is used as a door opener.

If the power supply system of the building is not equipped with an emergency power supply, the SHEV system must be connected to an emergency power supply.

The door can not be closed by using the SHEV system, therefore the SHEV system is not suitable for aerating the building.

During the on site planning of a SHEV system, the possible pressure differences on the two sides of the door leaf have to be taken into account. These parameters are determining for the choise of the door closer.



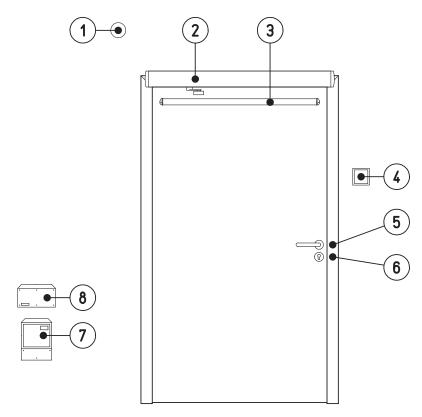


14.7

Overhead door closers

For smoke and heat venting systems

System solution with automatic door operator



- 1 Smoke and heat switches
- 2 Automatic door operator
- (3) Motion detector / security sensor
- 4 Pushbutton

- 5 Electrical strike, optionally motor lock
- 6 Bolt switch contact
- (7) Control unit
- (8) Emergency power supply

Functional description

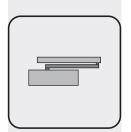
Opening of the door

- Under normal perpetration of the door set the door opens self-actuating after the sensors / motion dven an impuls.
- In the event of a fire the colapsable arm motor receives an impuls from for example the smoke and heat switch.

Closing of the door

- Under normal perpetration of the door set the door closes self-actuating.

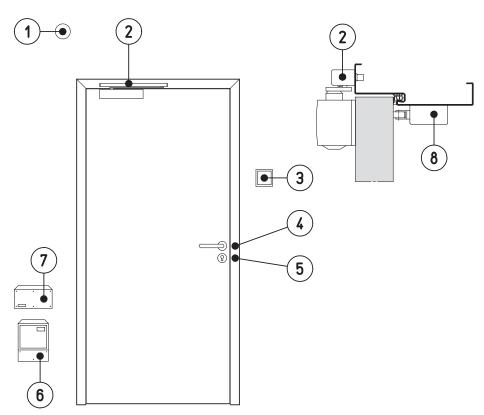




Overhead door closers

For smoke and heat venting systems

- System solution with overhead door closers and colapsable arm motor



- 1) Smoke and heat switches
- Overhead door closer with slide rail (e.g. standard installation on pull side)
- (3) Motion detector / security sensor
- 4 Electrical strike, optionally motor lock
- 5 Bolt switch contact
- 6 Control unit
- 7 Emergency power supply
- 8 Colapsable arm motor GEZE K600, 24V DC

Functional description

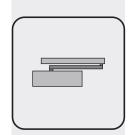
Opening of the door

- Under normal perpetration of the door set acts as a standard Fire-Protection-Door.
 The door leaf can be pushed open by hand, against the pressure of the door closer.
- In the event of a fire the colapsable arm motor receives an impuls from for example the smoke and heat switch and the door opens electro-mechanically.

Closing of the door

- Under normal perpetration of the door set the door closes self-actuating.





14.7

Overhead door closers

For smoke and heat venting systems

SHEV-door closer

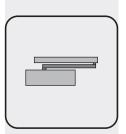
Type of the door closer	Standar	d instal.	Transom instal.		Concealed
	BS	BGS	BS	BGS	installation
DORMA TS 93 B		•	•		
DORMA TS 93 G	•			•	
DORMA ITS 96					•
GEZE TS 4000 with slide rail		•	•		
GEZE TS 4000 G with slide rail	•			•	
GEZE TS 5000		•	•		
GEZE TS 5000 L	•			•	
GEZE Boxer					•

BS = pull side BGS = push side

Additional door closers e.g. door closers with hold-open or free-swing function as well as automatic door operators for SHEV systems are available on request.



1166



Hold-open devices

Regulations

Functions

The self-closing function of Fire- and Smoke-Protection-Doors is added by suitable and approved door closers. The use of buildings makes it sometimes necessary to keep doors open for a certain period of time (e.g. transportation of goods)

In order to hold-open Fire- and Smoke-Protection-Doors, approved hold-open devices are necessary. These are either integrated in the door closer (door closers with hold-open function) or external devices (electromagnet be chapter 15.16) which hinder the closing operation. The hold-open device is turned off in order to release the closing operation either by the smoke switch control unit in the event of a fire, or by a blackout or by manual release.

Hold-open devices are regulated in the DIN EN 1155.

Excerpts of the guidelines for hold-open devices

Hold-open devices

Hold-open devices are devices, or combinations of them, which are suitable for the need of a controlled stopping of the closing function. If the event of a fire or other triggers of the self-closing function, the integrated release mechanism enables open doors to close.

A hold-open device consists of at least one fire detector, a release mechanism, a hold-open device and a power supply.

Fire detector

Fire detectors are the parts of a hold-open device, which constantly, or in defined periods of time, measure a suitable physical or chemical parameter in order to detect a fire in the monitored area and signal it to the release mechanism.

Release mechanisms

The release mechanism processes the signals of the fire detectors and, if a fire detection parameter threshold level is exceeded, turns off the connected hold-open device.

Hold-open mechanisms

Hold-open mechanisms are mechanisms which hold back the necessary energy to close the door.

Common hold-open devices are electromagnetic systems such as electromagnets, magnetic valves and magnetic coupler.

Power supplies

The power supply provides electricity for the fire detectors (24 volt), the release mechanism, the hold-open devices (230 volt) and if necessary additional devices.

Fire alarm systems

Fire arlarm systems are devices, which automatically process the signals of the fire detectors and transfer them.

Parts of a fire alarm system can be used as a release mechanism.

Alarm system group

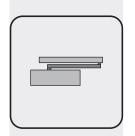
An alarm system group is the sum of fire detectors, for which an own indication mechanism is provided within the display for signals and errors.

The alarm system group can also consist of only one detector.

Door closers

Door closers are devices, which are made for closing movable closures, if needed also in the case of the breakdown of the energy supply.





Hold-open devices

Regulations

Final inspection

Following a ready to use installation of a hold-open device on the site of use, the faultless function and the installation according to regulations has to be assessed by a final inspection.

This inspection has to be indicated by the manufacturer of the release and hold-open devices. It has to be arranged by the user.

The final inspection has to be carried out by qualified employees of the manufacturer of the release device and the hold-open devices, of authorised specialists or employees of a named test centre.

The final inspection has to cover at least the following services:

- The installed hold-open devices need to match the official approval certificates.
- The labeling of the installed devices need to match the labeling in the official approval certificates
- The coaction of all devices has to be tested, according to the official approval certificate, by simulating the function-triggering fire parameters as well as a testing of the functions by hand.
- It has to be tested weather the self-closing function is released if the hold-open device fails its function (e.g. by failing of a detector due to a blackout).

If the final inspection has been sucessully ended, a sign, size $105 \text{ mm} \times 52 \text{ mm}$, which has to be provided by the manufacturer of the hold-open device has to be permanently attached to the wall. On the sign it should say:

Hold-open device

Final inspection by ... (company logo as well as month and year of the final inspection)

An attestation of the successful final inspection has to be handed out to the operator, who has to preserve it.

Periodical inspections

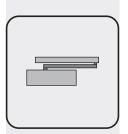
The operator has to assure the functionallity of the hold-open device at all times, the faultless function has to be checked at least once a month.

Furthermore the operator, or a hired specialist, is bound to assure a faultless coaction of all devices as well as an injection of the function once a year, as long as no shorter period is given by the official approval certificate.

These inspections have to be carried out by a specialist or trained personnel.

The range, outcome and date of the periodical inspection have to be recorded and preserved by the operator.





Hold-open devices

The use of fire detection devices

Installation of fire detectors

Fire detection devices, which also activate upon smoke or temperature raises, can be installed in various areas.

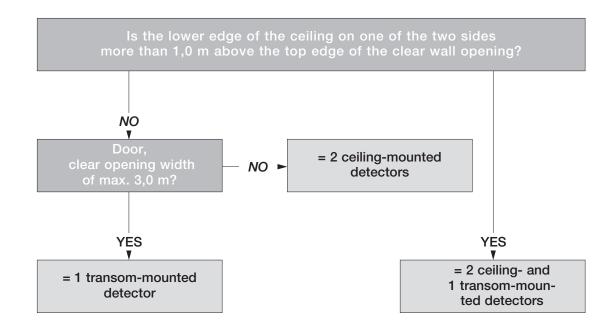
In order to determine the number of necessary detectors it is assumed that one detector covers a surrounding range of 2,0 m. If the clear opening exceeds 4,0 m an additional fire detector or an additional pair of detectors has to be installed in order to cover the whole width of the clear opening.

As a rule a ceiling-mounted detector per side - a pair of detectors - has to be installed, additionally at least one transom-mounted detector has to be installed on one side of the lintel.

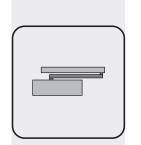
If the lower edge of the ceiling is not more than 1,0 m above the top edge of the clear opening which needs to pe protected, no transom-mounted detector has to be installed. If the clear opening is not wider than 3,0 m and it is closed by a door, it is sufficient to install a transom-mounted detector.

If "ceiling-mounted detectors" are required, they need to be installed directly underneath the lower edge of the ceiling, above the clear wall opening. The horizontal distance of the detectors from the wall, in which the wall opening is located, has to be at least 0,5 m and must not be more than 2,5 m.

If a "transom-mounted detector" is required, it needs to be installed directly underneath the lower edge of the ceiling, above the clear wall opening not more than 0,1 m above the lower lintel edge.



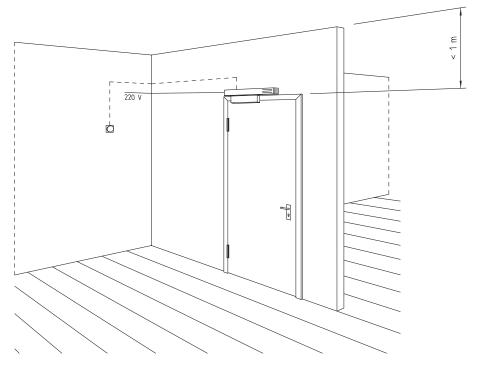




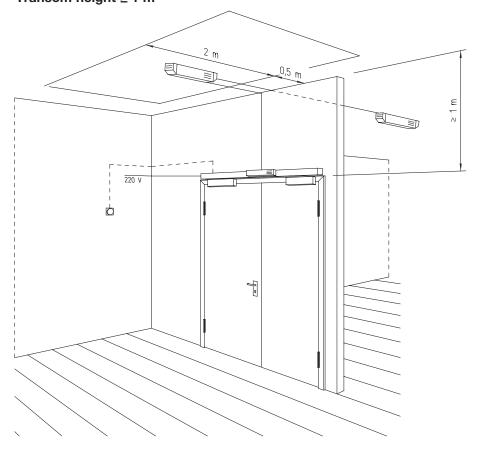
Hold-open devices

The use of fire detection devices

Transom height < 1 m



Transom height ≥ 1 m









Special equipment Content

		Page
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15. 2	Overview	1173
15. 3	Retractable bottom seals	1174 - 1175
15. 4	Security bolts	1176
15. 5	Lead inlay and laminated aluminium inlay	1177
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15. 7	Electrical strikes	1179 - 1180
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General information

Requirements

Schörghuber special doors can be equipped with and prepared for a great range of special equipment. Hereby a distinction is drawn between function-accordant equipment and requirement-accordant special fittings and devices.

Depending on the door function Schörghuber doors are by default equipped with certain fittings and equipment features, as for example door closers, locks, handles as well as hinges. These are described in detail in the according chapters.

Furthermore, depending on the door function, special equipment as for example retractable bottom seals for Smoke-Protection- and Sound-Insulation-Doors or lead inlays for Radiation-Protection-Doors is already accounted for.

Function-accordant special equipments:

- Bottom seal (standard for Smoke-Protection and Sound-Insulation-Doors)
- Security bolts in the hinge edge (up to 5 pieces)
- Lead inlay up to 4 mm lead equivalent value (for Radiation-Protection-Doors)
- Laminated aluminium inlay for climate category III
- Alarm-wire inlay
- High-frequency insulation (Faraday cage)

Requirement-accordant special equipments:

- Door viewer
- Electrical strike
- Security equipment (block lock, bolt contact, magnetic contact, etc.)
- Electronic control and surveillance systems
- Escape route protection systems
- Cable channel and cable transition
- Cable channel with plug-and-socket connection
- Door bolting device
- Kick plate and edge guard
- Ventilation grille
- Mail slot
- Grounding strap
- Stainless steel strike plate in steel frame
- Adjustable strike plate
- Electromagnets

For the installation of additional equipment applies that it must not interfere with the door function, e.g. Fire- or Smoke-Protection-Doors etc. On site modifications of Fire- and Smoke-Protection-Doors are subject to restrictions of the DIBt in Berlin and are published regularily. \blacktriangleright See index, chapter 2

Every door manufacturer has to provide according test certificates and verifications for the use of special equipments for e.g. Fire- or Smoke-Protection-Doors.

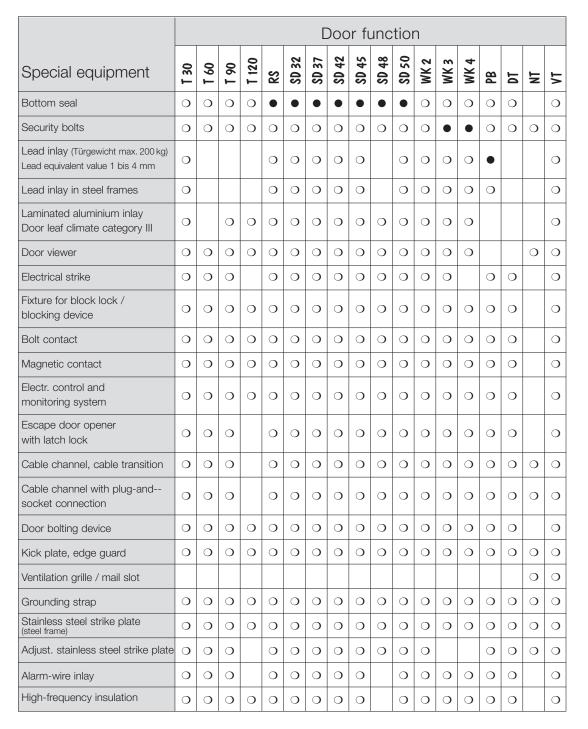




Combinations

Overview

15,2



On request

Standard

	T 30	=	T 30 Fire-Protection
	T 60	=	T 60 Fire-Protection
	T 90	=	T 90 Fire-Protection
	T 120	=	T 120 Fire-Protection
٦.	RS	=	Smoke-Protection
]®	SD 32	=	Sound-Insulation Rw,P 32 dB
/)	SD 37	=	Sound-Insulation Rw,P 37 dB
/)	CD 42	_	Sound-Inculation Rw P 12 dR

SD 42 = Sound-Insulation Rw,P 42 dB **SD 45** = Sound-Insulation Rw,P 45 dB **SD 48** = Sound-Insulation Rw,P 48 dB **\$D 50** = Sound-Insulation Rw,P 50 dB **WK2** = Burglar-Protection WK 2 **WK3** = Burglar-Protection WK 3 **WK 4** = Burglar-Protection WK 4 PB = Radiation-Protection DT Bullet-Resistant M 3

NT = Wet Room VT = Solid Core



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15.3

Requirement-accordant equipment

Retractable bottom seals

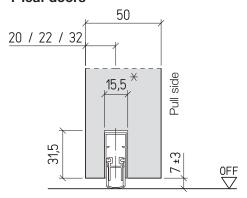
Field of application

All Schörghuber special doors can be equipped with retractable bottom seals.

Smoke-Protection-Doors, approved according to DIN 18095, have to be equipped with a bottom seal. The installation of retractable bottom seals for Fire- and Smoke-Protection-Doors is only permitted for the door manufacturer. Fire-Protection-Doors with bottom seal must not be shortened on site.

If doors are equipped with retractable bottom seals in order to meet sound-insulation requirements, the use of thresholds (e.g. aluminum rails) and a floor disjunction (disjunction joint) is recommended. Thick carpets and also flat uneven floor coverings underneath the door leaf edge can seriously decrease the sound-deadening function of the door set.

Retractable bottom seal 1-leaf doors



20 mm for rebated door leaf

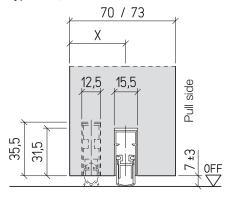
22 mm for unrebated door leaf

32 mm for unrebated door leaf with jamb rebate

* 20.5 mm for NT

Sound-Insulation Rw,P 37 dB / 42 dB

Type 5 N, 25 N



X = Tst 70: 37 mm for rebated door leaf

43 mm for unrebated door leaf with jamb rebate

45 mm for unrebated door leaf with jamb rebate

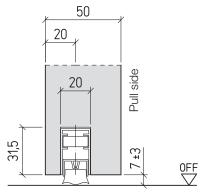
45 mm for unrebated door leaf with double jamb rebate

a = Tst 73: 44 mm for unrebated door leaf with jamb rebate and DIN-lock

42 mm for unrebated door leaf with jamb rebate and RR-lock

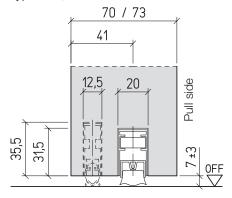
35 mm for rebated door leaf and RR-lock

2-leaf doors



Sound-Insulation Rw,P 37 dB / 42 dB

Type 6 N, 27 N



1) 39 for RR-lock



37 mm for rebated door leaf and DIN-lock

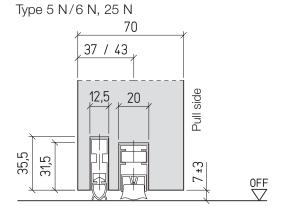




Requirement-accordant equipment

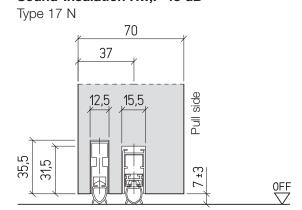
Retractable bottom seals

Sound-Insulation Rw,P 42 dB/45 dB



- 37 mm for 2-leaf door
- 37 mm for rebated 1-leaf door
- 43 mm for unrebated 1-leaf door

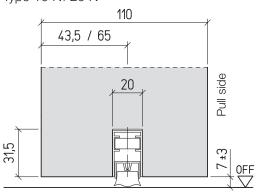
Sound-Insulation Rw,P 48 dB



15.3

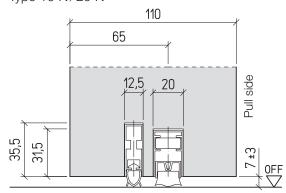
Sound-Insulation Rw,P 32 dB and 37 dB

Type 10 N/20 N



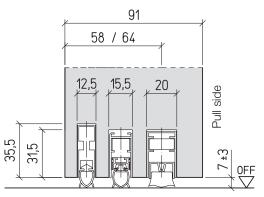
Sound-Insulation Rw,P 42 dB

Type 10 N/20 N



Sound-Insulation Rw,P 50 dB

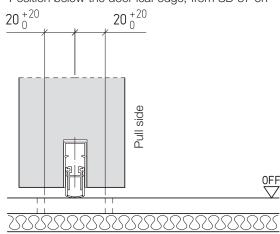
Type 50-1 / 50-2



58 mm double rebated, striking 64 mm unrebated with double jamb rebate 58 mm 2-leaf

Configuration with disjunction of the screed or disjunction threshold

Position below the door leaf edge, from SD 37 on



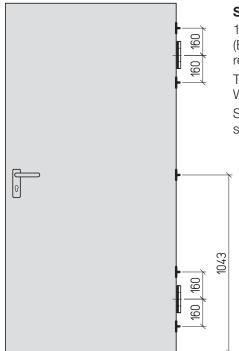




15.4

Requirement-accordant equipment

Security bolts



Security bolts

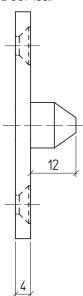
1-leaf door sets of the resistance class WK 2 (Burglar-Protection according to DIN V ENV 1627) can on request be equipped with up to 5 security bolts.

The configuration of the door sets with resistance class WK 3 by default includes 5 security bolts.

Security bolts are available in galvanised or stainless steel configuration.

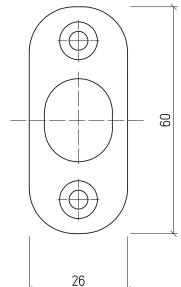
Security bolts

Door leaf



Counterpart

Wooden frame



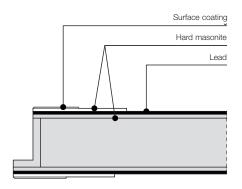




15.5

Requirement-accordant equipment

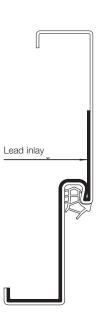
Lead inlay and laminated aluminium inlay



Lead inlay

Construction-conditioned a symetrical door leaf assembly is necessary. The lead equivalent value of a Radiation-Protection-Door is determined through the adding of the thickness of the lead inlay on both sides of the door leaf. The door leaf weight is determined by the door type, the dimensions of the door, as well as the thickness of the lead inlay (approx. 13 kg/m² per mm lead inlay thickness). Hereby the door leaf weight is limited by the maximum bearing force of the door hinges.

The lead inlay is only available in defined material thicknesses. A Radiation-Protection-Door can be, in consideration of the maximum bearing force of the door hinges, equipped with the following lead inlays:



Lead equivalent values

1,0 mm (2 x 0,5 mm)

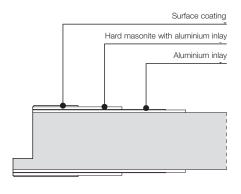
1,5 mm (2 x 0,75 mm)

2,0 mm (2 x 1,0 mm)

3,0 mm (2 x 1,5 mm)

4,0 mm (2 x 2,0 mm)

With regard to the radiation protection function for steel frames different possibilities, such as partial lead inlays or the use of radiation protection mortar, are available. > Chapter 2.7



Laminated aluminium inlay

Except of a few door leaf constructions all Schörghuber special doors are available in climate category III configuration. Exceptions are the solid wood framed door and the combination with bullet-resistant function.

In order to resist extreme climate stress on both sides of the door leaf, the door construction is if necessary enhanced with an additional laminated aluminium inlay. The in the cover plates, symmetrically arranged, visible aluminum layers hinder the humidity passage and the affiliated shape distortion of the door leaf. The types 16 N and 26 N are classified in climate category III, even without additional laminated aluminium inlay.



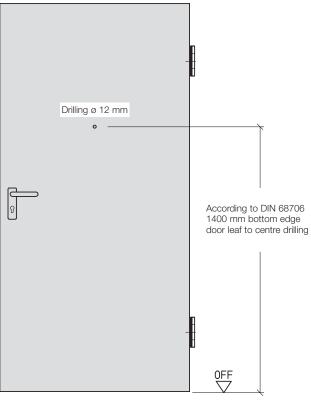


15.6

Requirement-accordant equipment

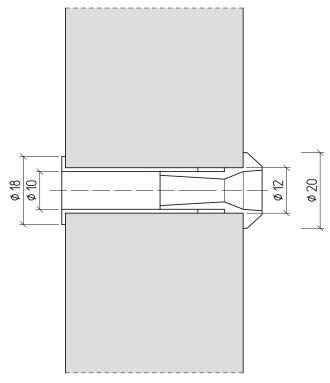
Door viewer

Schörghuber special doors are on request available with door viewer. Exceptions are Bullet-Resistant-Doors and Radiation-Protection-Doors.



The lenses of the door viewer are available in different angles of vision. On request the door viewers can be equipped with a covering cap.

The position of the door viewer is defined, according to DIN 68706, to a height of 1400 mm from the bottom edge of the door leaf to the centre of the drilling. Differing positions are available on request.







15.7

Requirement-accordant equipment

Electrical strikes for 1-leaf door sets

The use of electrical strikes offers the possibility to monitor and control the access to certain secured areas.

In general the door openers are devided in standby current door openers and operating current door openers. The latch of operating current door openers is released by triggering the electrical switch (current entry).

Fire- and Smoke-Protection-Doors can be equipped with operating current door openers only. This ensures that in the event of a blackout or a power off the door remains shut and therefore fulfils its function (to hinder the spreading of fire and smoke). A permanent unlocking of the electrical strike for Fire- and Smoke-Protection-Doors is therfore not permitted.

Only the manufacturer of Fire- and Smoke-Protection-Door sets is permitted to install an elec-trical door opener. A later installation of an electrical strike is only possible if a special strike plate was installed during the production of the frame. The necessary electrical strike can on request be supplied by Schörghuber.

The operating voltage is by default 24 volts, on request 12 volts. The door opener can be operated either with alternating current voltage (AC) or direct current voltage (DC), whereas alternating current voltage is, due to the greater opening force, recommended. On request Schörghuber offers a direct current voltage door opener which pulses the voltage in the opening moment and therefore reaches a great opening force even for direct current voltage.

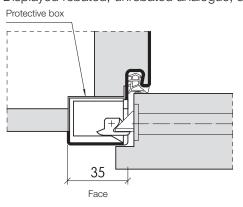
Standby current door openers can only be operated as special equipment on Fire- and Smoke-Protection-Door sets (escape route protection).

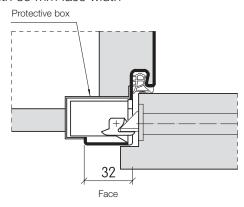
The equipment of electrical strikes with a feedback contact for lock surveillance of the door set is possible. The feedback contact shows if the the door leaf is shut or open.

Electrical strikes for Schörghuber door sets are also available in WK 2 / WK 3 configuration.

Steel frame

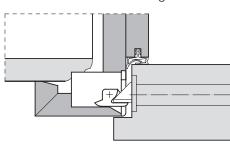
Displayed rebated, unrebated analogue, standard with 35 mm face width



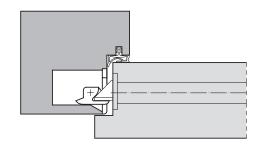


Wooden wrap-around frame

Wooden block frame analogue



Solid wooden frame





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15.7

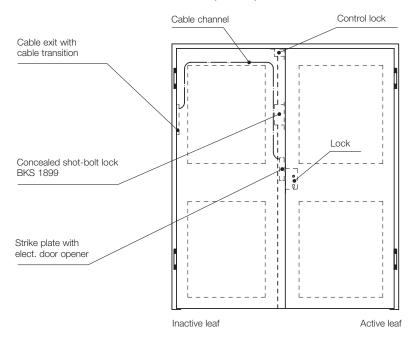
Requirement-accordant equipment

Electrical strikes 2-leaf door sets

Position of the electrical strike for the concealed shot-bolt lock BKS 1899

In combination with 2-leaf door sets electrical strikes can be installed on a special strike plate of the inactive leaf lock.

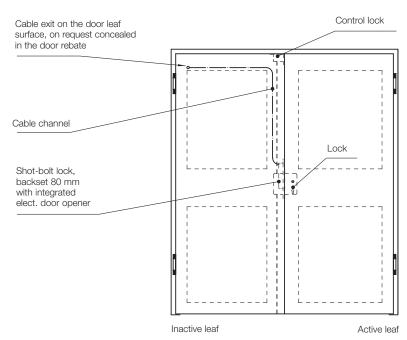
The cable can hereby exit the door leaf either concealed in the rebate (cable transition), or visible on the door leaf surface on pull or push side.



Integrated electrical strike for the shot-bolt lock BKS 2392 / 2397

In combination with a shot-bolt lock the electrical strike is integrated in the inactive leaf.

The cable can hereby exit the door leaf either concealed in the rebate (cable transition), or visible on the door leaf surface on pull or push side.







15.8

Requirement-accordant equipment

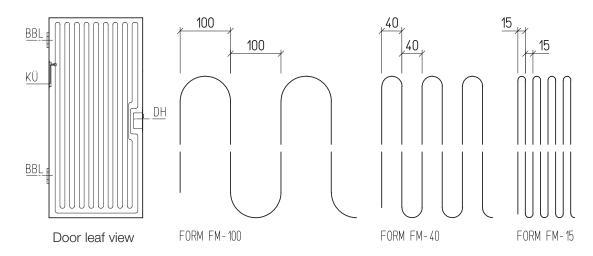
Security equipment

Surface detector (alarm wire inlay)

Type "FORM FM" VdS-No. G110003

Doors with special security requirements can be equiped with VdS-certified class C surface detectors. Suitable for class C burglar alarm systems.

The VdS procedure directives allow for three different wire distances:



The following door types can be optionally equiped on either push or pull side:

- Panel doors T 30 T 90, VT, FT, NT, SD, RS, Radiation-Protection
- Optionally with vision panel (glass with for example alarm wire)
- The cable connection is realised through a concealed cable channel

The door is identified through a label on the edge of the door leaf. In addition the customers is issued the VdS certificate and the manufacturers accompanying document with the electrical resistance values.





Requirement-accordant equipment

Security equipment

Block locks

Due to the fact that type and configuration of the to be installed block locks in a building project are usually specified, it is possible to prepare all Schörghuber special doors for on site provided models. For electrically operated block loks it is necessary to insert a cable channel in order to provide power supply.

Magnetic contact

Magnetic contacts (reed contacts) serve as surveillance and electrical monitoring of the door position, either open or shut. This is usually necessary in combination with control and surveillance systems. Schörghuber offers the displayed magnetic contacts as a standard solution. A preperation for on site provided magnetic contacts is possible as well.

Bolt contact

Bolt contacts serve as locking control mechanisms of the door leaf. Through this the bolted state of the door is visible in the control system. By default Schörghuber offers the bolt contacts "eff eff 878" and "LINK Type 100 13 31 C", a preperation for on site provided bolt contacts is possible as well.

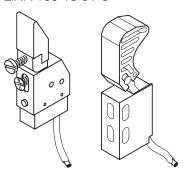
For 2-leaf door sets the possibility, to monitor the bolting via a bolt contact, type Cherry, integrated in the shot-bolt lock of the inactive leaf, is given. On request also the closing state of the shot-bolt rod can be monitored via an additional switch contact on the upper strike plate.

Alternatively a surveillance of the active leaf lock is possible.

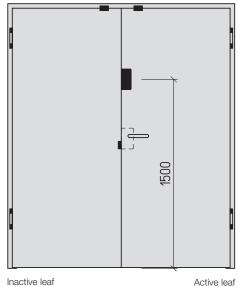
→ Chapter 15.11

Bolt contact

eff eff 878 LINK 100 13 31 C

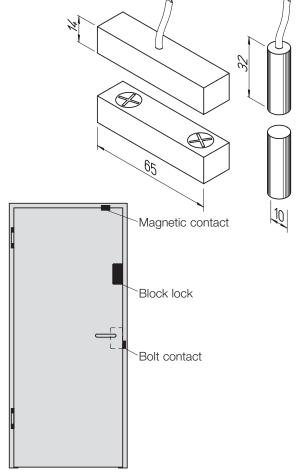


Position of the security equipment



Magnetic contacts (dry reed contacts)

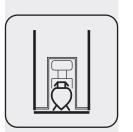
eff eff 10365 LINK 100 01 28 A/B





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15.8



15.9

Requirement-accordant equipment

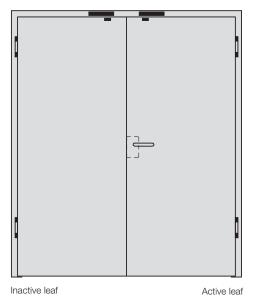
Electromechanical blocking device

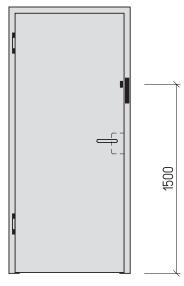
With electromechanical blocking devices the access to the secured area of a burglar alarm system is prohibited. By activating the burglar alarm system the blocking device in the frame is bolted by electromechanically throwing a bolt in the according counter- / closure part.

Electromechanical blocking devices are not permitted on escape doors!

Schörghuber offers to prepare 1- and 2-leaf door sets, also Fire- and Smoke-Protection-Door sets, for on site provided blocking devices. Hereby an adequate face width of the frame, depending on the type of the blocking device, has to be accounted for.

Position of the electromechanical blocking device









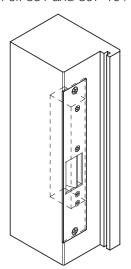
15.10

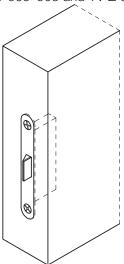
Requirement-accordant equipment

Door bolting device

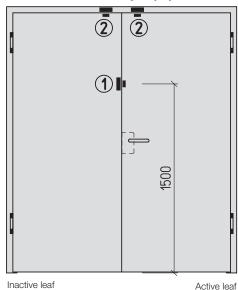
Escape door opener with latch lock

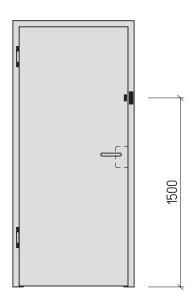
eff eff 331 and 807-10 / DORMA TV 505-508 and TV-Z 510





Position os the security equipment





- 1 Panic function on the active leaf, escape door opener at the meeting stiles
- (2) Panic function on the active and inactive leaf, escape door openers on each top edge

Escape door opener

In order to prevent an unauthorised entering of doors in escape routes, a securing of the mostly with panic function equipped door sets is necessary. This possibility is offered by Schörghuber via the use of an additional escape door opener/closers in combination with a counter latch-lock. The door sets have to be integrated in the existing fire detection system and generally it is only possible to unlock the door via an installed door terminal.

Due to the fact that this system works in a standby current principle, a use in Fire- and Smoke-Protection-Doors as an addition to the mandatory main lock or a lock working with an operating current is permitted.

2-leaf door sets with full panic function have to be equipped with escape door opener/closers on both the top edge of the active and inactive leaf.

In order to be able to install an escape door opener/closers in a steel frame the **face width on the pull side** has to be extended to **45 mm**.





15.10

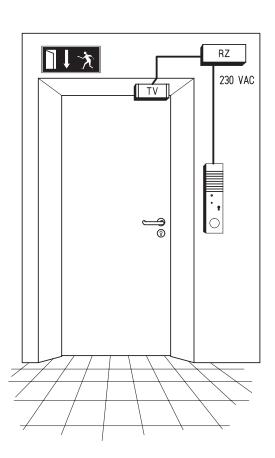
Requirement-accordant equipment

Door bolting device

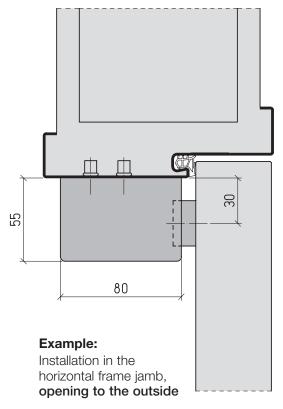
field of applications of door bolting devices are for example escape and emergency routes. The doors of emergency exits, usually equipped with panic function, need to be protected against unauthorised entering fom the outside. Various systems, which can be fastened on the door leaf or the frame, are suitable for this purpose.

Schörghuber offers, amongst others, the emergency exit securing systems DORMA Model TV 100 and GEZE MA 500. Frame and door leaf are prepared for the mounting of the door bolting device on the push side.

In the event of an emergency the door can be accessed by pressing an emergency switch (door terminal on handle height on the wall), which deactivates the bolting mechanism. The emergency switch has to be provided by the customer and installed according to the regulations.



Standard installation







15.11

Requirement-accordant equipment

Electrical lock surveillance systems

Latch, bolt and follower surveillance

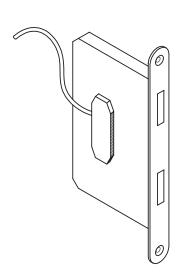
In order to monitor certain lock positions for access control systems, escape door surveillance systems, etc. it is recommended to install an integrated follower and/or latch and bolt surveillance.

Schörghuber door sets can be equipped for such surveillance systems. The accordingly prepared locks are inserted in the door leaf and a cable channel ensures that the power supply for the dry reed contacts via the magnet is given.

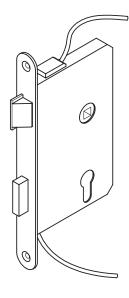
The in the operating devices (bolt, latch, follower) inserted or built-on permanent magnets control the dry reed contacts within the lock.

A connection to common control systems is possible. Solutions for many different types of locks are available.

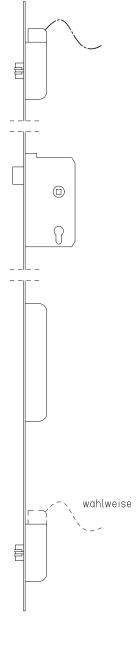
Follower surveillance



Latch and bolt surveillance



GU/BKS Secury latch and bolt surveillance





Schörghuber



15.12

Requirement-accordant equipment

Power supplies

In order to control electrical devices within a door set, cables have to be fed from the outside. Current collectors in the frame can be cable-connected directly. Electrical devices embedded in the door leaf are connected via a cable transition. The following diagrams, concerning the position of the cable transition, are approximate measures, in order to obtain exact measures, please contact the factory.

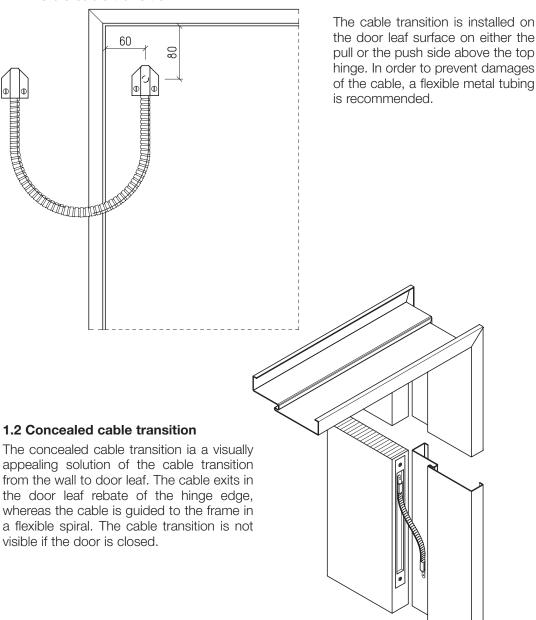
All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.

1. Cable transition

Each cable transition can only carry one cable. The following devices are controlled via the cable transition:

- Electrical strike in the inactive leaf
- Motor locks
- Block locks
- Blocking devices
- Door operators

1.1. Visible cable transition







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15.12

Requirement-accordant equipment

Power supplies

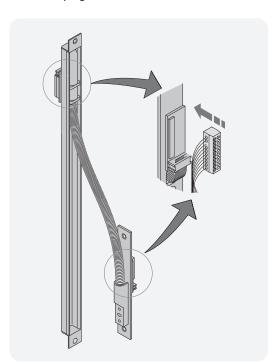
1.3. Concealed cable channel with plug-and-socket connection

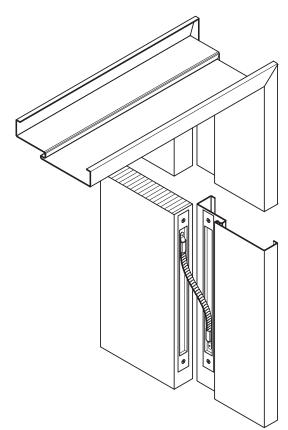
An innovative further development in concealed cable channels is their plug-and-socket connection option.

The plug-and-socket connection technique with its integrated flexibel cable against cable break offers the following advantages:

- The frame and door installation is independent of the electrical installation.
- For maintenance the door leaf can be unhinged after the cable connection has been unplugged. Electrical knowledge or an electrician are not necessary.
- A simple connection of for example diagnosis equipment is possible.

Innovative plug-and-socket connection







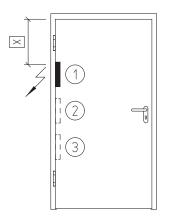


15.12

Requirement-accordant equipment

Power supplies

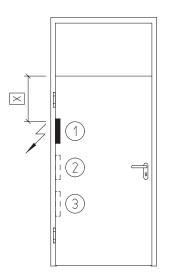
1.4 Cable transition for 1-leaf door



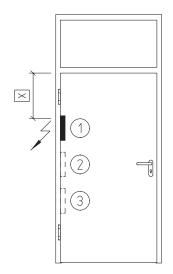
Cable transition Type	X-dimension for 2 hinges	X dimension for 3 and more hinges
260	690	910
480	930	1150

- 1 Standard position
- (2) (3) On request

1-leaf door, lintel-high



1-leaf door with top panel



1-leaf door with transom



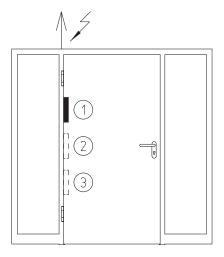


15.12

Requirement-accordant equipment

Power supplies

1.5 Cable transition for 1-leaf door with side panel

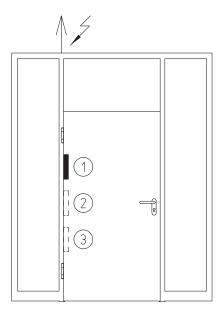


1-leaf door, lintel-high with side panel or with an unseparated solid wood construction

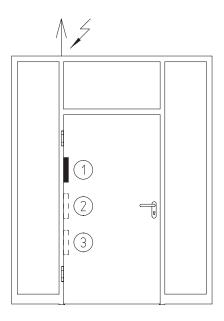
Standard position

On request

Cable exit point in the frame



1-leaf door with top panel with side panel or with an unseparated solid wood construction



1-leaf door with transom with side panel or with an unseparated solid wood construction



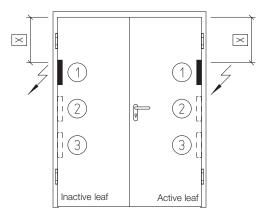


15.12

Requirement-accordant equipment

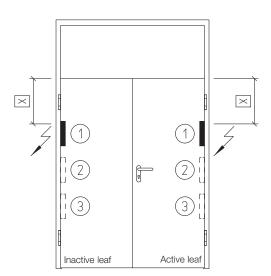
Power supplies

1.6 Cable transition for 2-leaf door

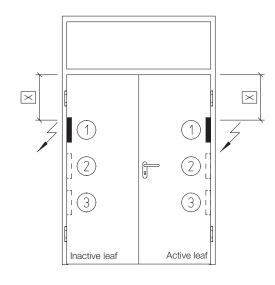


Cable transition Type	X-dimension for 2 hinges	X-dimension for 3 and more hinges
260	690	910
480	930	1150

2-leaf door, lintel-high



2-leaf door with top panel



2-leaf door with transom



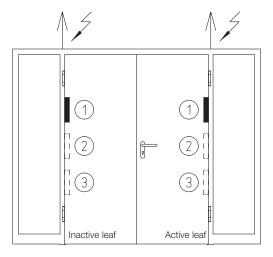


15.12

Requirement-accordant equipment

Power supplies

1. Cable transition for 2-leaf door with side panel

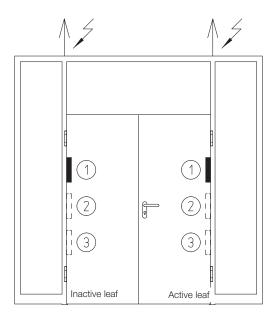


2-leaf door, lintel-high with side panel or with an unseparated solid wood construction

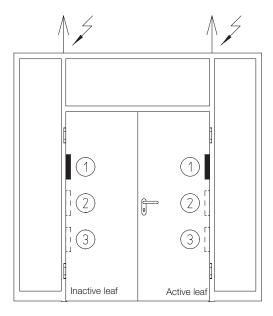
(1) Standard position

2) (3) On request

Cable exit point in the frame



2-leaf door with top panel with side panel or with an unseparated solid wood construction



2-leaf door with transom with side panel or with an unseparated solid wood construction



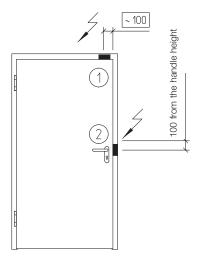


15.12

Requirement-accordant equipment

Power supplies

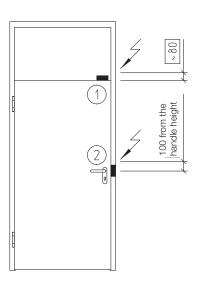
2. Electrical strikes 1-leaf door



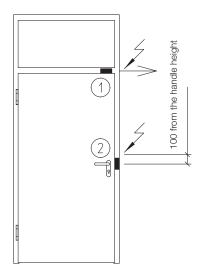
1-leaf door, lintel-high

- Electrical strike on the upper bolting device (for locks with upper bolting device)
- 2 Electrical strike on the main lock





1-leaf door with top panel



1-leaf door with transom



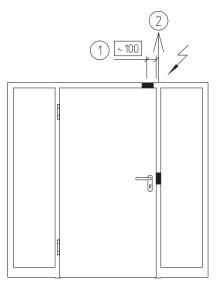


15.12

Requirement-accordant equipment

Power supplies

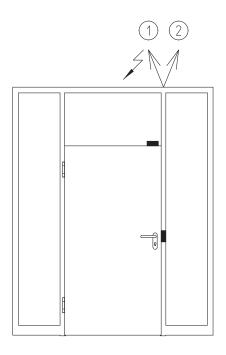
2.1 Electrical strikes 1-leaf door with side panel



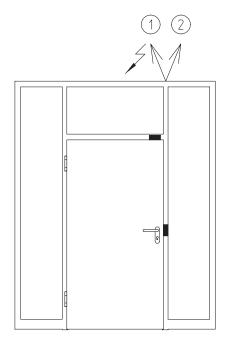
- Electrical strike on the upper bolting device (for locks with upper bolting device)
- 2 Electrical strike on the main lock

Cable exit point in the frame

1-leaf door, lintel-high with side panel or with an unseparated solid wood construction



1-leaf door with top panel with side panel or with an unseparated solid wood construction



1-leaf door with transom with side panel or with an unseparated solid wood construction



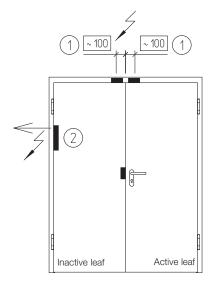


15.12

Requirement-accordant equipment

Power supplies

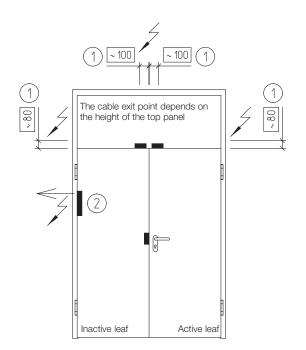
2.2 Electrical strikes, 2-leaf door



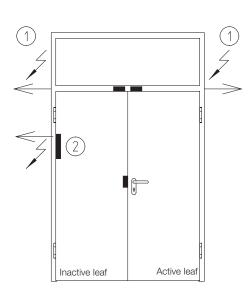
2-leaf door, lintel-high

- Electrical strike on the upper bolting device (for locks with upper bolting device)
- (2) Electrical strike on the main lock

Cable exit point in the frame



2-leaf door with top panel



2-leaf door with transom



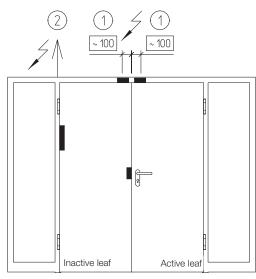


15.12

Requirement-accordant equipment

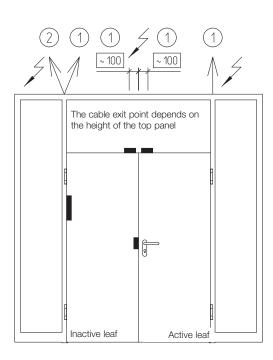
Power supplies

2.3 Electrical strikes, 2-leaf door with side panel

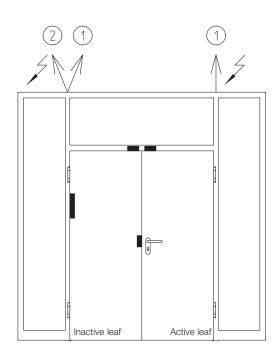


- 2-leaf door, lintel-high with side panel or with an unseparated solid wood construction
- Electrical strike on the upper bolting device (for locks with upper bolting device)
- (2) Electrical strike on the main lock

Cable exit point in the frame



2-leaf door with top panel with side panel or with an unseparated solid wood construction



2-leaf door with transom with side panel or with an unseparated solid wood construction



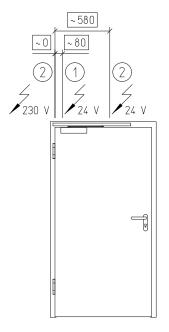


15.12

Requirement-accordant equipment

Power supplies

- 3. Door closer with slide rail, standard mounting on pull side
- 3.1 Dorma TS 93 EMF / -EMR Contur (1-leaf door)



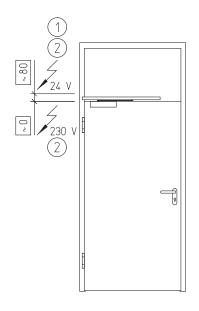
1-leaf door, lintel-high

1) DORMA TS 93 EMF Contur

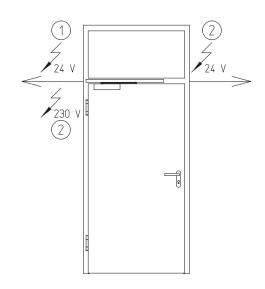
A smoke detection unitis required for top panels / transoms

(2) DORMA TS 93 EMR Contur

Cable exit point in the frame



1-leaf door with top panel



1-leaf door with transom



- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

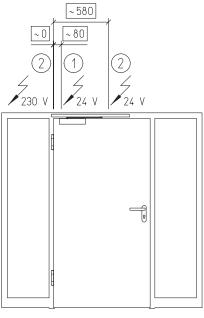


15.12

Requirement-accordant equipment

Power supplies

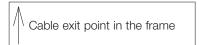
3.2 DORMA TS 93 Contur (1-leaf door with side panel)

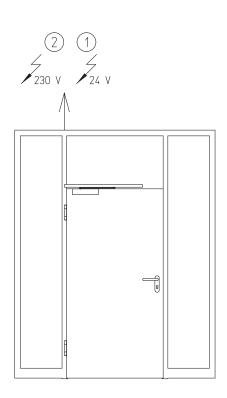


1-leaf door, lintel-high with side panel or with an unseparated solid wood construction

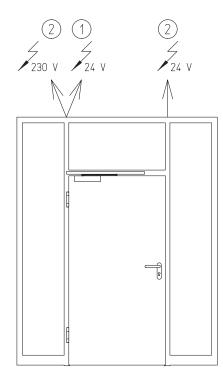
(1) DORMA TS 93 EMF Contur A smoke detection unitis required for top panels / transoms

(2) DORMA TS 93 EMR Contur





1-leaf door with top panel with side panel or with an unseparated solid wood construction



1-leaf door with transom with side panel or with an unseparated solid wood construction

1198

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.



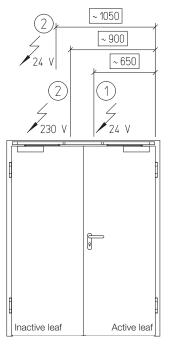


15.12

Requirement-accordant equipment

Power supplies

3.3 DORMA TS 93 GSR-EMF / -EMR Contur (2-leaf door)



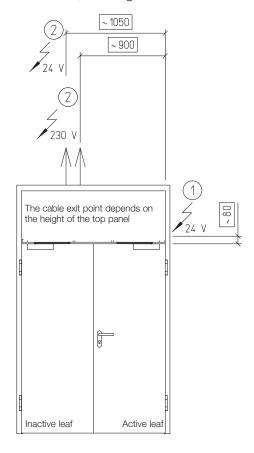
(1) DORMA TS 93 GSR-EMF Contur

A smoke detection unitis required for top panels / transoms

(2) DORMA TS 93 GSR-EMR Contur

Cable exit point in the frame

2-leaf door, lintel-high



24 V
24 V
230 V
2 Inactive leaf

Active leaf

2-leaf door with top panel

2-leaf door with transom

FORM"

Schörghuber

Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

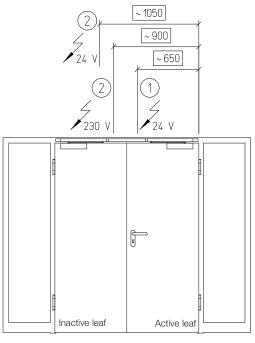


15.12

Requirement-accordant equipment

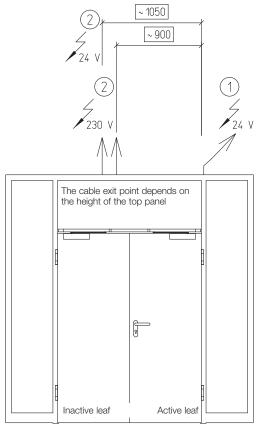
Power supplies

3.4 DORMA TS 93 GSR-EMF / -EMR Contur (2-leaf door with side panel)

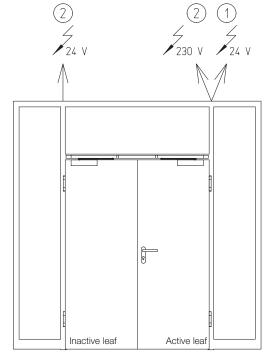


2-leaf door, lintel-high with side panel or with an unseparated solid wood construction

- (1) DORMA TS 93 GSR-EMF Contur
 - A smoke detection unitis required for top panels / transoms
- DORMA TS 93 GSR-EMR Contur
 - Cable exit point in the frame



2-leaf door with top panel with side panel or



2-leaf door with transom with side panel or with an unseparated solid wood construction with an unseparated solid wood construction

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary. 1200



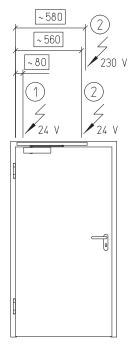


15.12

Requirement-accordant equipment

Power supplies

3.5 GEZE TS 5000 E / -R (1-leaf door)

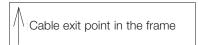


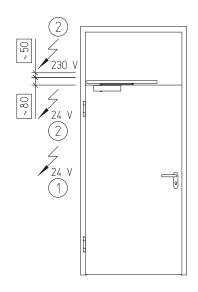
1-leaf door, lintel-high

1) GEZE TS 5000 E

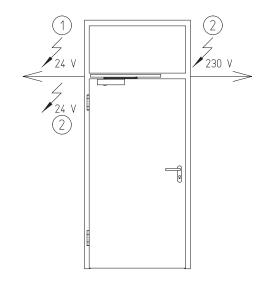
A smoke detection unitis required for top panels / transoms

(2) GEZE TS 5000 R





1-leaf door with top panel



1-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

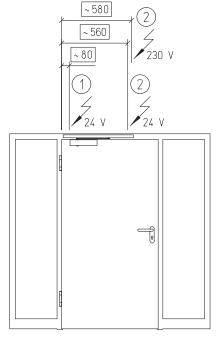


15.12

Requirement-accordant equipment

Power supplies

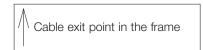
3.6 GEZE TS 5000 E / -R (1-leaf door with side panel)



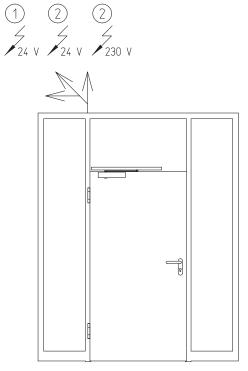
(1) GEZE TS 5000 E

A smoke detection unitis required for top panels / transoms

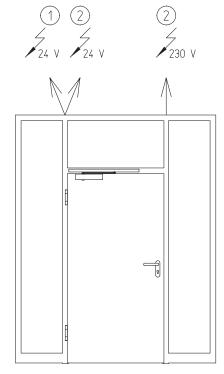
(2) GEZE TS 5000 R



1-leaf door, lintel-high with side panel or with an unseparated solid wood construction



1-leaf door with top panel with side panel or with an unseparated solid wood construction



1-leaf door with transom with side panel or with an unseparated solid wood construction

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.



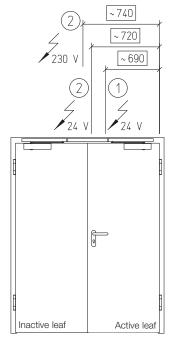


15.12

Requirement-accordant equipment

Power supplies

3.7 GEZE TS 5000 E-ISM / R-ISM (2-leaf door)



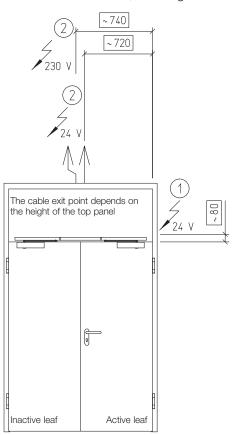
1) GEZE TS 5000 E-ISM
A smoke detection unitis required

for top panels / transoms

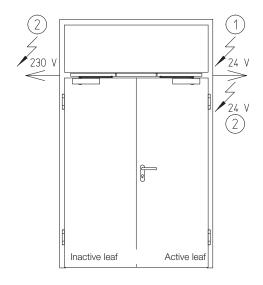
(2) GEZE TS 5000 R-ISM

Cable exit point in the frame

2-leaf door, lintel-high



2-leaf door with top panel



2-leaf door with transom

FORM

Schörghuber

Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

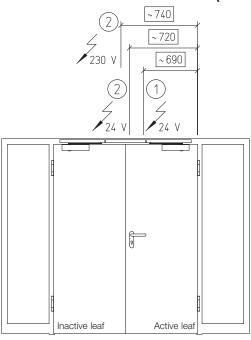


15.12

Requirement-accordant equipment

Power supplies

3.8 GEZE TS 5000 E-ISM / R-ISM (2-leaf door with side panel)



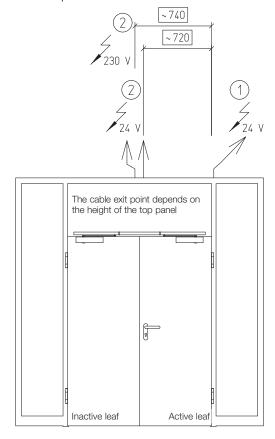
(1) GEZE TS 5000 E-ISM

A smoke detection unitis required for top panels / transoms

(2) GEZE TS 5000 R-ISM

Cable exit point in the frame

2-leaf door, lintel-high with side panel or with an unseparated solid wood construction



2-leaf door with top panel with side panel or with an unseparated solid wood construction

2-leaf door with transom with side panel or with an unseparated solid wood construction

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- 1204 If a smoke detection unit is used the power supply location may vary.



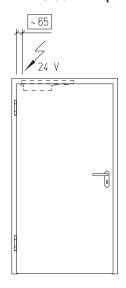


15.12

Requirement-accordant equipment

Power supplies

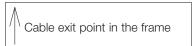
- 4. Integrated door closer with hold-open device
- 4.1 DORMA ITS 96 EMF (1-leaf door)

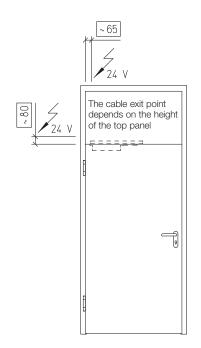


1-leaf door, lintel-high

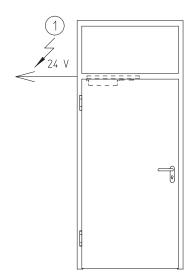
DORMA ITS 96 EMF

A smoke detection unitis required for top panels / transoms





1-leaf door with top panel



1-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

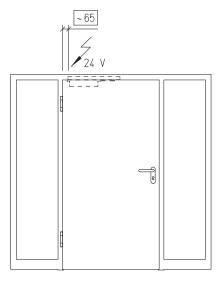


15.12

Requirement-accordant equipment

Power supplies

4.2 DORMA ITS 96 EMF (1-leaf door with side panel)

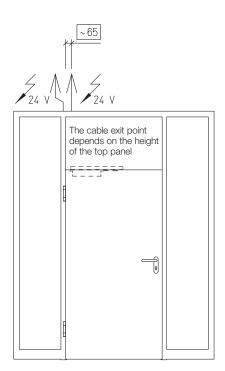


1-leaf door, lintel-high with side panel or with an unseparated solid wood construction

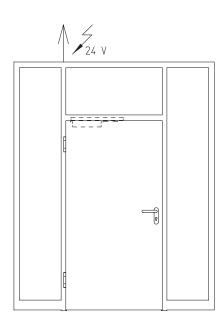
DORMA ITS 96 EMF

A smoke detection unitis required for top panels / transoms

Cable exit point in the frame



1-leaf door with top panel with side panel or with an unseparated solid wood construction



1-leaf door with transom with side panel or with an unseparated solid wood construction



- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

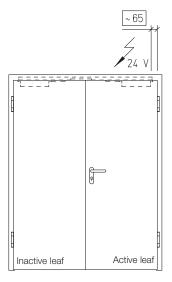


15.12

Requirement-accordant equipment

Power supplies

4.3 DORMA ITS 96 GSR-EMF (2-leaf door)

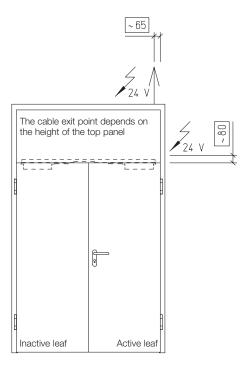


2-leaf door, lintel-high

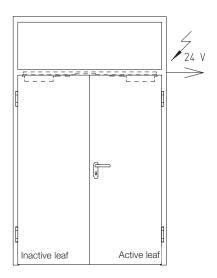
DORMA ITS 96 GSR-EMF

(bei Oberblende / Kämpfer ist eine RMZ erforderlich)





2-leaf door with top panel



2-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

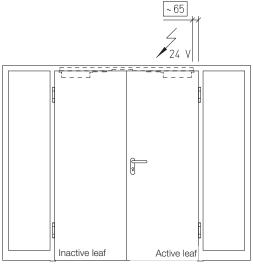


15.12

Requirement-accordant equipment

Power supplies

4.4 DORMA ITS 96 GSR-EMF (2-leaf door with side panel)

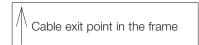


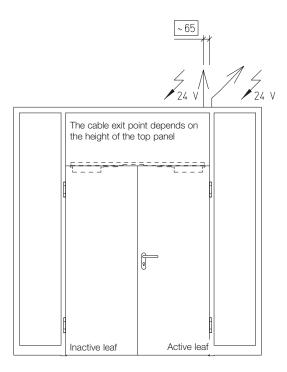
2-leaf door, lintel-high with side panel or with

an unseparated solid wood construction

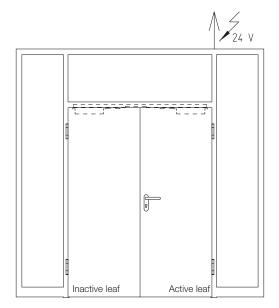
DORMA ITS 96 GSR-EMF

A smoke detection unitis required for top panels / transoms





2-leaf door with top panel with side panel or with an unseparated solid wood construction



2-leaf door with transom with side panel or with an unseparated solid wood construction



- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

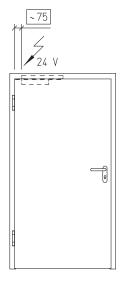


15.12

Requirement-accordant equipment

Power supplies

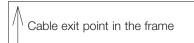
4.5 GEZE Boxer E (1-leaf door)

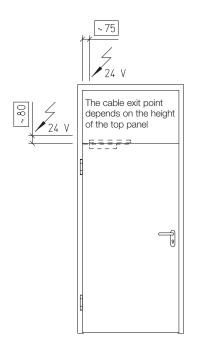


1-leaf door, lintel-high

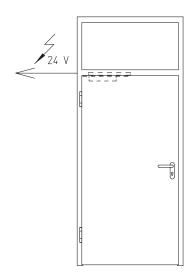
GEZE BOXER E

A smoke detection unitis required for top panels / transoms





1-leaf door with top panel



1-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

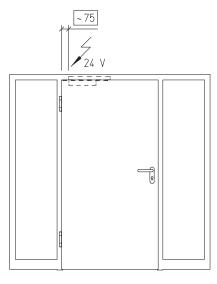


15.12

Requirement-accordant equipment

Power supplies

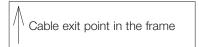
4.6 GEZE Boxer E (1-leaf door with side panel)

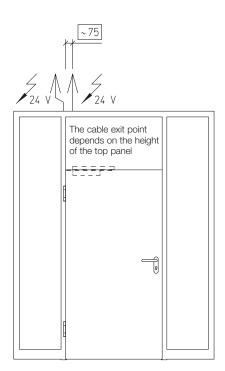


1-leaf door, lintel-high with side panel or with an unseparated solid wood construction

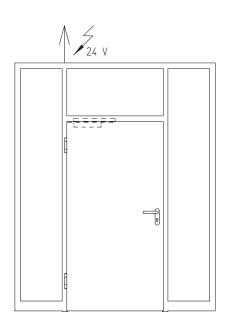
GEZE BOXER E

A smoke detection unitis required for top panels / transoms





1-leaf door with top panel with side panel or with an unseparated solid wood construction



1-leaf door with transom with side panel or with an unseparated solid wood construction



- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

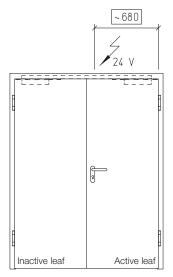


15.12

Requirement-accordant equipment

Power supplies

4.7 GEZE Boxer E-ISM (2-leaf door)

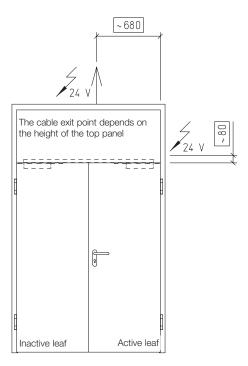


2-leaf door, lintel-high

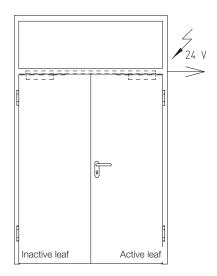
GEZE BOXER E-ISM

A smoke detection unitis required for top panels / transoms

Cable exit point in the frame



2-leaf door with top panel



2-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

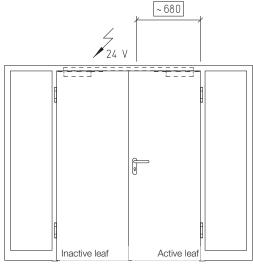


15.12

Requirement-accordant equipment

Power supplies

4.8 GEZE Boxer E-ISM (2-leaf door with side panel)



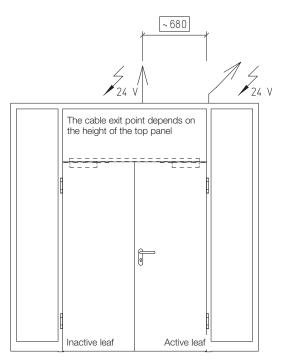
2-leaf door, lintel-high with side panel or with

an unseparated solid wood construction

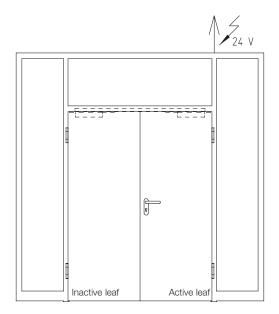
GEZE BOXER E-ISM

A smoke detection unitis required for top panels / transoms





2-leaf door with top panel with side panel or with an unseparated solid wood construction



2-leaf door with transom with side panel or with an unseparated solid wood construction



- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

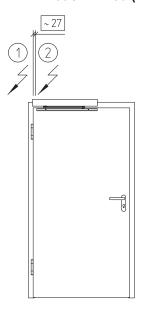


15.12

Requirement-accordant equipment

Power supplies

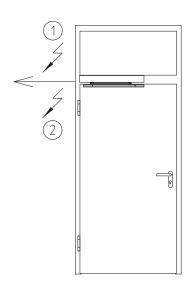
- 5. Automatic door operator
- 5.1 DORMA ED 100 / ED 250 (1-leaf door), top mounting, pull side



1-leaf door, lintel-high

- 1) for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

Cable exit point in the frame



1-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

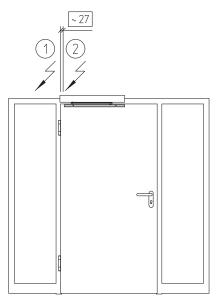


15.12

Requirement-accordant equipment

Power supplies

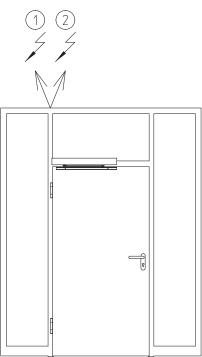
5.2 DORMA ED 100 / ED 250 (1-leaf door with side panel)



- 1) for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

A Cable exit point in the frame

1-leaf door, lintel-high with side panel or with an unseparated solid wood construction



1-leaf door with transom with side panel or with an unseparated solid wood construction



- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

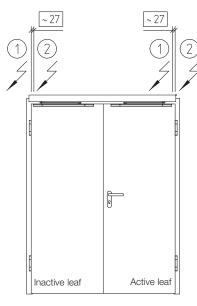


15.12

Requirement-accordant equipment

Power supplies

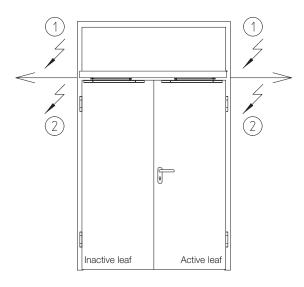
5.3 DORMA ED 100 / ED 250 ESR (2-leaf door), top mounting, pull side



- 1) for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

Cable exit point in the frame

2-leaf door, lintel-high



2-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

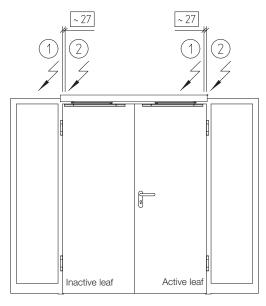


15.12

Requirement-accordant equipment

Power supplies

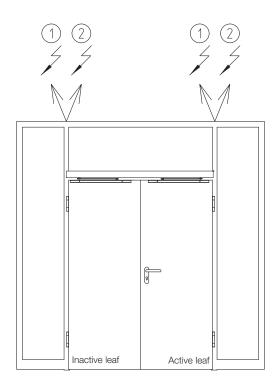
5.4 DORMA ED 100 / ED 250 ESR (2-leaf door), top mounting, pull side



- for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

 $/|\setminus$ Cable exit point in the frame

2-leaf door, lintel-high with side panel or with an unseparated solid wood construction



2-leaf door with transom with side panel or with an unseparated solid wood construction



- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.



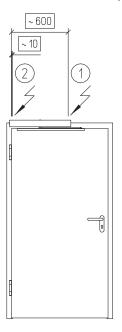
15.12

Requirement-accordant equipment

Power supplies

5. Automatic door operator

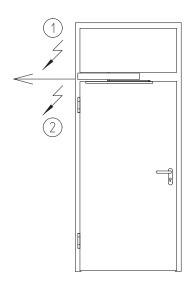
5.5 Geze Slimdrive EMD-F (einflügelig), Kopfmontage Bandseite



1-leaf door, lintel-high

- 1) for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

Cable exit point in the frame



1-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

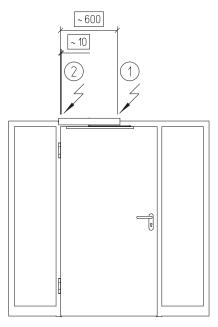


15.12

Requirement-accordant equipment

Power supplies

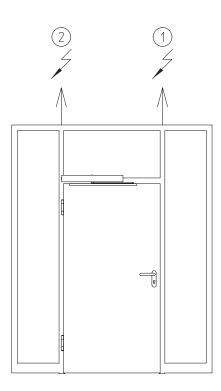
5.6 GEZE Slimdrive EMD-F (1-leaf door with side panel), top mounting, pull side



- for 230 V feeder
- for sensors, door opener, bolt contact etc.

Cable exit point in the frame

1-leaf door, lintel-high with side panel or with an unseparated solid wood construction



1-leaf door with transom with side panel or with an unseparated solid wood construction



- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.



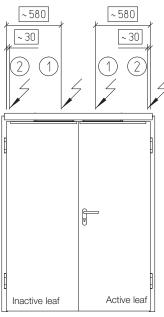


15.12

Requirement-accordant equipment

Power supplies

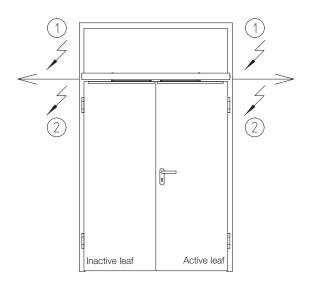
5.7 GEZE Slimdrive EMD F-IS (2-leaf door), top mounted, pull side



2-leaf door, lintel-high

- 1) for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

Cable exit point in the frame



2-leaf door with transom



- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

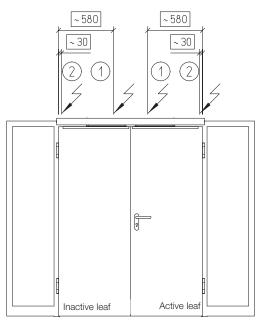


15.12

Requirement-accordant equipment

Power supplies

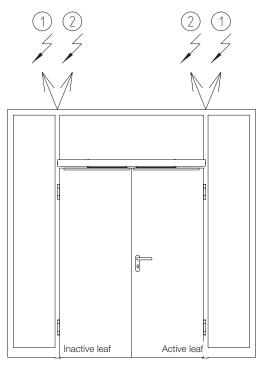
5.8 GEZE Slimdrive EMD F-IS (2-leaf door), top mounted, pull side



- (1) for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

Cable exit point in the frame

2-leaf door, lintel-high with side panel or with an unseparated solid wood construction



2-leaf door with transom with side panel or with an unseparated solid wood construction



- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.



15.12

Requirement-accordant equipment

Power supplies

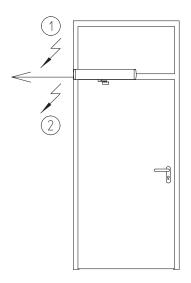
5.9 DORMA ED 200-D (1-leaf door), top mounting, push side



- for 230 V feeder
- for sensors, door opener, bolt contact etc.

Cable exit point in the frame

1-leaf door, lintel-high with side panel or with an unseparated solid wood construction



1-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

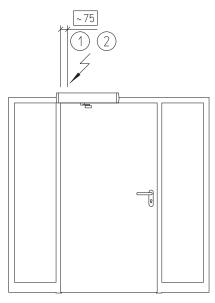


15.12

Requirement-accordant equipment

Power supplies

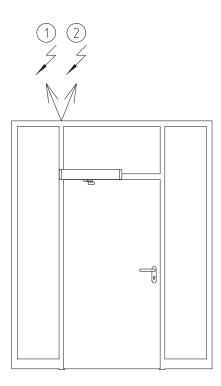
5.10 DORMA ED 200-D (1-leaf door with side panel), top mounting, push side



- (1) for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

Cable exit point in the frame

1-leaf door, lintel-high with side panel or with an unseparated solid wood construction



1-leaf door with transom with side panel or with an unseparated solid wood construction



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- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

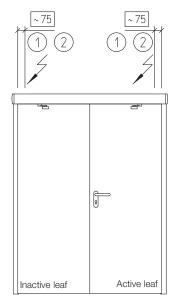


15.12

Requirement-accordant equipment

Power supplies

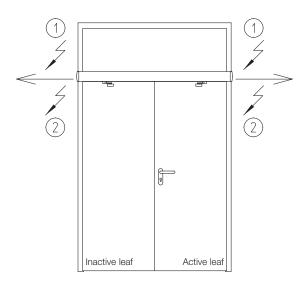
5.11 DORMA ED 200-D ESR (2-leaf door), top mounting, push side



2-leaf door, lintel-high

- for 230 V feeder
- for sensors, door opener, bolt contact etc.

Cable exit point in the frame



2-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

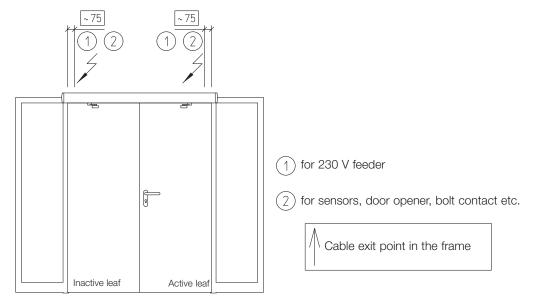


15.12

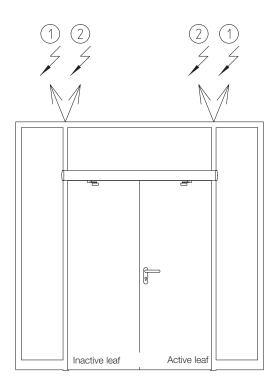
Requirement-accordant equipment

Power supplies

5.12 DORMA ED 200-D ESR (2-leaf door with side panel), top mounting, push side



2-leaf door, lintel-high with side panel or with an unseparated solid wood construction



2-leaf door with transom with side panel or with an unseparated solid wood construction



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

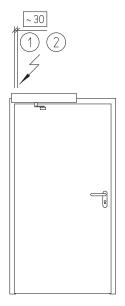


15.12

Requirement-accordant equipment

Power supplies

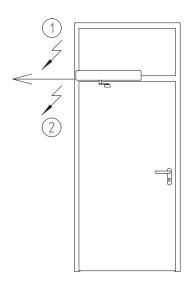
5.13 Geze TSA 160 NT F (1-leaf door), top mounting, push side



1-leaf door, lintel-high

- (1) for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

Cable exit point in the frame



1-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

1225

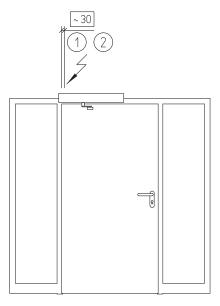


15.12

Requirement-accordant equipment

Power supplies

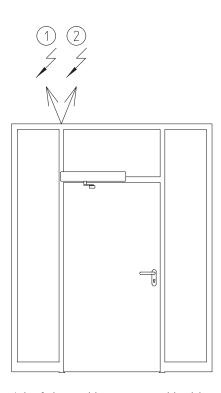
5.14 Geze TSA 160 NT F (1-leaf door with side panel), top mounting, push side



- 1) for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

Cable exit point in the frame

1-leaf door, lintel-high with side panel or with an unseparated solid wood construction



1-leaf door with transom with side panel or with an unseparated solid wood construction



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

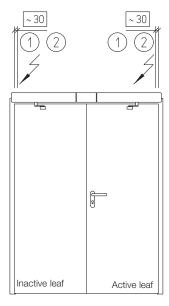


15.12

Requirement-accordant equipment

Power supplies

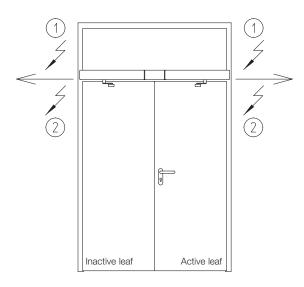
5.15 Geze TSA 160 NT F-IS (2-leaf door), top mounting, push side



2-leaf door, lintel-high

- 1 for 230 V feeder
- (2) for sensors, door opener, bolt contact etc.

Cable exit point in the frame



2-leaf door with transom



Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.

1227

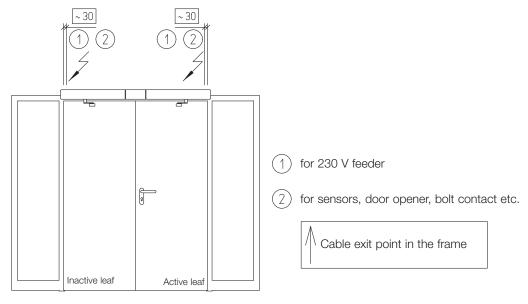


15.12

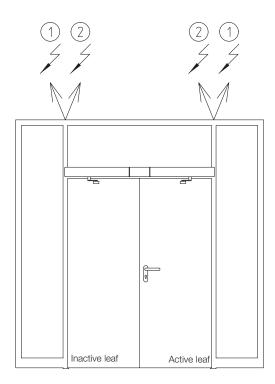
Requirement-accordant equipment

Power supplies

5.16 Geze TSA 160 NT F-IS (2-leaf door with side panel), top mounting, push side



2-leaf door, lintel-high with side panel or with an unseparated solid wood construction



2-leaf door with transom with side panel or with an unseparated solid wood construction



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Attention:

- All measurements refer to frame rebate dimensions respectively reference rebates for top panel and transom.
- If a smoke detection unit is used the power supply location may vary.



15.13

Requirement-accordant equipment

Kick and push plates

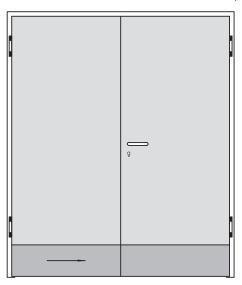
Surface and edge protection

In order to prevent surface or edge damage on the highly used ares of doors, stainless steel or aluminium kick plates are installed.

By default kick plates with a thickness of 1,0 mm are glued to the finished door surface. On request they can be screw fastened in addition.

Alternatively to mounting the kick plates on top of the finished surface, they can also be mounted flush and slotted to the door surface.

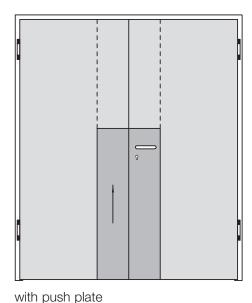
According to the DIBt a mounting of strips of metal sheet on the door surface up to a height of and width of about 250 mm is allowed (Chapter 2.3).



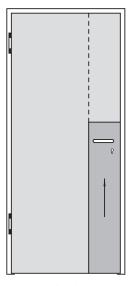
with kick plate



with kick plate



Grinding direction



with push plate





15.14

Requirement-accordant equipment

Ventilation grille and mail slot

Ventilation grille

For the ventilation of closed rooms without a ventilation possibility, as for example Damp Rooms and kitchen etc., ventilation grilles can be inserted in doors. The dimension of the grille as well as the open cross section are subject to the necessary air change rate of the room.

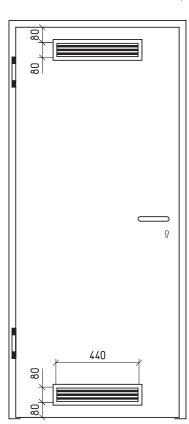
The installation of a ventilation grille is usually just done in Wet Room and Solid Core Doors.

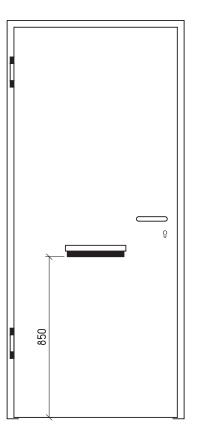
The installation in Fire- and Smoke-Protection-Doors is not permitted.

The position and size of a ventilation grille is suggested in DIN 68706. Differing configurations are possible as long as a minimum frize width is kept.

Mail slot

Apartment doors can be equipped with an additional mail slot. The installation height is according to DIN 68706 by default about 850 mm from the bottom leaf of the door leaf to the mail slot. Mail slots can on request only be installed in Solid Core Doors.









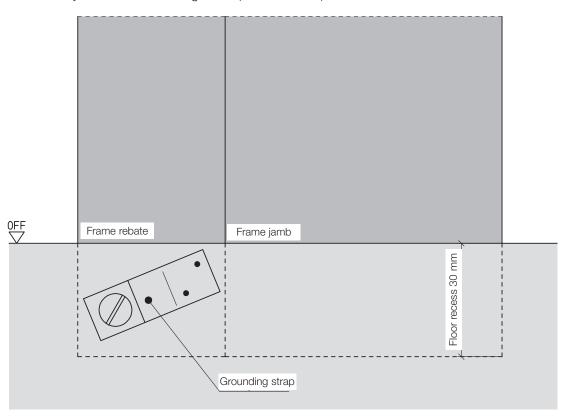
15.15

Requirement-accordant equipment

Grounding strap, stainless steel strike plate

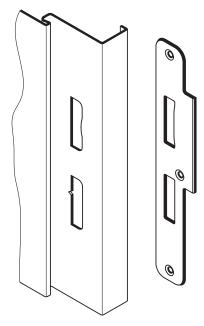
Grounding strap

In order to dissipate an electrostatic charge, which can be transferred to a human by floor coverings or similar things, it is possible to install a so called grounding strap in steel frames. It is necessary to install an earthing cable (PE-conductor) on site.



Stainless steel strike plate

In order to prevent a natural abrasive wear of the steel frame in the area of the lock by the latch, it is recommended that also steel frames are equipped with a high-quality stainless steel strike plate. This strike plate will be mounted flush to the steel frame during production.







15.16

Requirement-accordant equipment

Electromagnets

Electromagnets

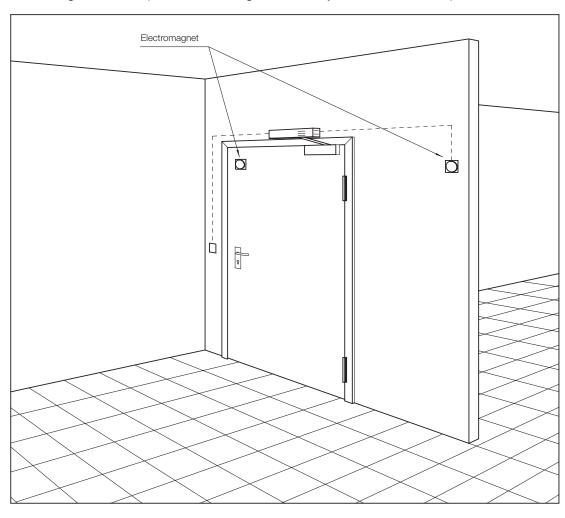
Electromagnets are hold-open devices for Fire-Protection closures. In the case of a fire the hold-open device is dismissed by the release unit (smoke detector and control unit). The selfclosing of the door is effected by door closers.

According to legal regulations Fire- and Smoke-Protection closures, which due to operating procedures are held open for a certain period of time (e.g. buildings with high visitor traffic), have to be equipped with hold-open devices. In the case of a fire the door leaf has to be released by cutting off the holding current in order to be able to close, with the help of an additional door closer. These hold-open devices, which have to be certified by the DIBt, consist of the hold-open device and the release unit.

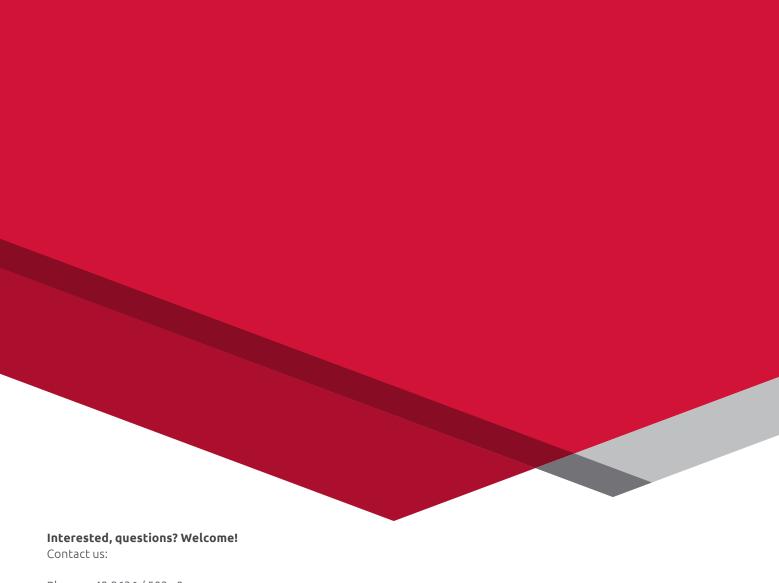
For example DORMA electromagnets in combination with the control unit RMZ-K and the smoke detector RM are approved and certified. The DORMA EM electromagnets differ in casing configuration and hold-open strength. The working current is 24 V direct current.

Depending on the installation situation electromagnets can be mounted on the wall, either underneath the plaster or on top of the plaster, on the floor or on the ceiling. Electromagnets feature on-spot hold-open and a great hold-open strength.

Electromagnets are not part of the Schörghuber delivery set and have to be provided on site.







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