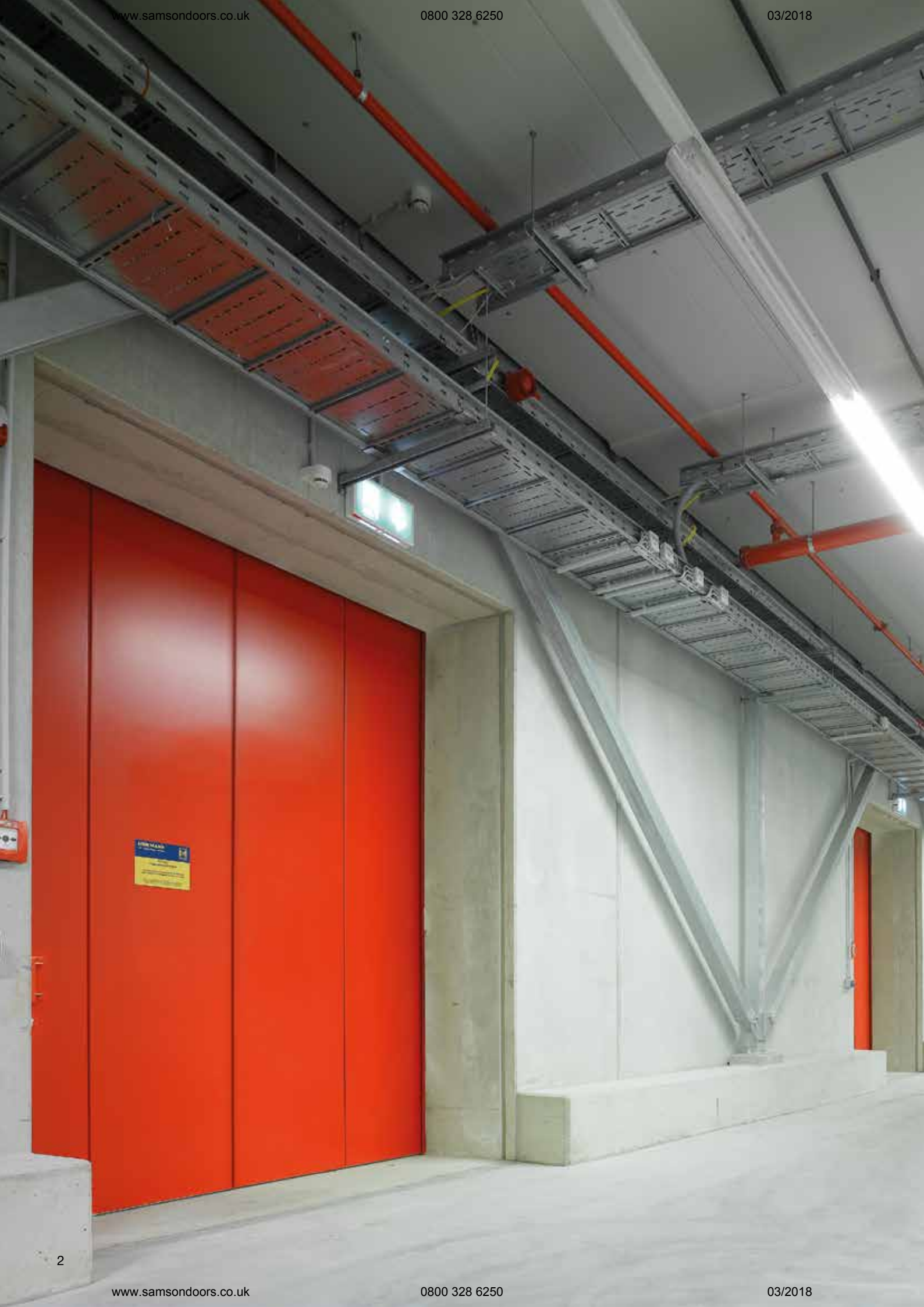




Steel and Stainless Steel Sliding Doors FST

Fire and smoke-tight sliding doors, multi-purpose sliding doors, hinged garage doors







- 4 Brand quality from Hörmann
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Hörmann fire and smoke-tight sliding door, Bettenwelt GmbH & Co. KG, Zarrentin, Germany

Hörmann Brand Quality

Future-oriented and reliable



Lenkwerk in Bielefeld, Germany, featuring Hörmann products



In-house product development

Growing and constantly changing functional and safety requirements necessitate continuous new construction / equipment developments and improvements, especially when it comes to moveable construction components such as doors. In this area, our qualified development teams time and again prove their great specialised expertise.



Highly sophisticated production methods

We at Hörmann rely on the latest production technology at our specialised factories. Computer-controlled operations ensure dimensionally accurate elements with perfectly fitted fittings and functional parts.



As Europe's leading manufacturer of doors and frames, we are committed to high product and service quality. This is how we set standards on an international scale.

Highly-specialised factories develop and manufacture construction components that are characterised by excellent quality, functional safety and a long service life.

Our presence in the global economy's key regions makes us a strong, future-oriented partner for industrial and public construction projects.



Fire testing centre with test laboratory

Our new and further developments are constantly tested for the required fire resistance and smoke-tightness through in-house fire tests at our fire testing centre. The knowledge gained from these tests ensures high fire protection for buildings. They also allow us to optimally prepare our innovations for the official inspections by the accredited testing centres for official approvals.



Expert building support

Experienced specialists of our customer-oriented sales organisation support you from the planning stage, through technical clarification up to the final building inspection.

Expert fitting is guaranteed by experienced Hörmann fitters and the specialised trained staff of Hörmann's partners.

Hörmann Fire Protection Elements

The right solution for any requirement



Europe's largest fire protection programme



Flush-fitting steel fire-rated doors

The most obvious feature of STS / STU fire-rated and smoke-tight doors is the flat, fully bonded door leaf with 100 % matching appearance of the T30 / EI₂30, T90 / EI₂90 and smoke-tight versions.



Multi-function doors

They are characterised by their matching appearance. The advantage for architects and building owners: doors that fulfil different functional requirements and are fitted on the same floor are perfectly matched to one another.



Fully glazed tubular frame parts and automatic sliding doors

Hörmann's aluminium and steel fire-rated/smoke-tight doors and glazings in the T30, T60 and T90 models will convince you with certified safety, perfect function and a 100 % matching appearance. With Hörmann automatic sliding doors, you are combining the transparency of tubular frame parts with the requirements of fire protection and barrier-free construction. These products allow Hörmann to provide a uniform fire protection concept for use in architecturally demanding construction projects.

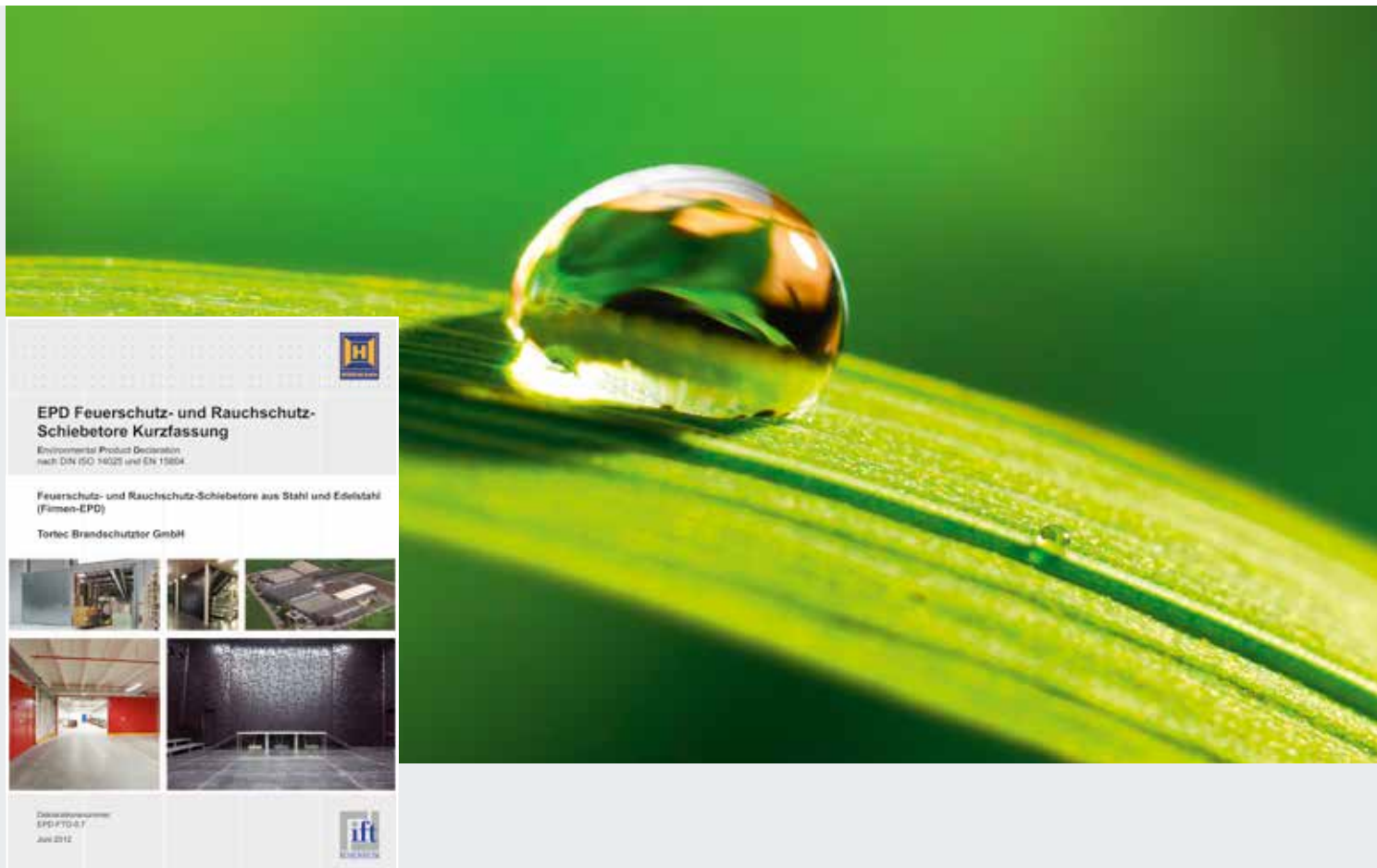


Visibility windows

Hörmann visibility glazings are used as windows or room-high elements to provide more light and better visibility. Visibility glazing is available for requirements like heat and acoustic insulation or radiation protection. All versions are offered in fire-retarding F30 and fire-resistant F90 variants. Individual solutions can be implemented using rail divisions, recesses and angles.

Sustainable Production

For trend-setting construction



Sustainability documented and approved by the ift in Rosenheim

Hörmann has already received confirmation of the sustainability of its products through an environmental product declaration (EPD)* in accordance with ISO 14025 from the Institut für Fenstertechnik (ift – Institute of window technology) in Rosenheim. The inspection was based on the Product Category Rules (PCR) Doors and Gates from ift Rosenheim GmbH, issue PCR-TT-0.1. Environmentally-friendly production was confirmed by a life-cycle analysis in accordance with DIN ISO 14040 / 14044 for all sliding doors.

Sustainably produced fire and smoke-tight elements from Hörmann

Environmentally friendly production
A comprehensive energy management system ensures environmentally-friendly production.

Regional raw materials

The majority of applied raw materials are purchased from Germany and Central Europe.

Long-lasting products

A long service life and low maintenance costs thanks to the use of high-quality materials.

Sustainable construction with Hörmann's expertise

Hörmann has been able to gain great expertise in sustainable construction through various projects. We also apply this know-how to support your projects. Another advantage: For every project order, the required data for LEED certification are automatically generated.

breeam



DGNB®

Deutsche Gesellschaft für Nachhaltiges Bauen e.V.
German Sustainable Building Council



Simple and Sustainable Planning With Hörmann's Architects' Program



The Architects' Program

More than 9000 drawings for over 850 products

Planning with Hörmann products is now even easier thanks to a modern, user-friendly interface. Clearly structured navigation via drop-down menus and symbols, as well as a search function, give you faster access to tender specifications and drawings (in DWG and PDF format) of over 850 Hörmann products. Photo-realistic presentations provide additional information on many products.

The Architects' Program is available to you as a web version at <http://www.hormann.co.uk/forums/architects-forum/architects-program> or can be downloaded free-of-charge from the Hörmann Architects' Forum.

Good Reasons to Try Hörmann

High-quality versions for the project sector;
functional solutions for the industrial sector



1

High-quality door appearance

Hörmann sliding doors offer a modern door appearance through a patented V groove at the element joint without visible screw connections. The high stability is ensured through the interlocked, toothed labyrinth plug-in profile. The elements are 72 mm wide, fully glued and flush, and aligned with each other through threaded rods. This creates a high-quality door leaf with parallel, uniform-width borders. The individual elements are up to 9 m high and are produced from a single piece without any unattractive weld seams. This results in a high-quality door appearance.

2

Precise door leaf guide

The cylindrical track roller and the stable track roller, in conjunction with the patented track, work together to provide an optimal force balance. Quiet operation and easy actuation is ensured, thanks to a suspension with ball-bearing. The track can be precisely adjusted in three dimensions using adjusting screws. A track panel in the colour of the door leaf results in a harmonious overall appearance.



Combination with the operators
SupraMatic HT und ITO 400

3 Flush-stopping without guiding profile

This optional door version is an alternative to double-leaf hinged doors in construction projects, e.g. in entrance areas. The clear passage is extended, since the door in the inlet area stops flush with a stainless steel fascia on the wall, ensuring that the elegant appearance is not compromised by a guiding profile. If the parking area is designed as a recess solution with recess flap, the door is practically invisible. Security is ensured through spring-loaded stainless steel guiding bolts, intumescent coating and rubber double seal.

4 With a convenient operator solution

A combination of a steel or stainless steel sliding door with a SupraMatic HT or ITO 400 operator allows for fast opening and closing in daily operation. The operators SupraMatic HT and ITO 400 FU with soft start and soft stop as standard are recommended for a particularly gentle and quiet door travel. The door can be conveniently operated via a hand transmitter, push button or key switch. In case of fire, a patented mechanism is used to unlock the operator. The door is then reliably closed via weights.

Quality in the Details

High-quality door construction for demanding architecture



**Approved and certified in accordance
with EN 12605 class C5 (long-term function
tests with 200000 door cycles)**



1 Slim overall construction

- Depth of just 132 mm
- Minimum width for recess flaps: 160 mm to max. 360 mm (flap width)
- Recess width: 180 mm to max. 380 mm

2 Track panel

- Matches the door leaf
- Galvanized, RAL to choose or stainless steel
- Easy fitting with few screw connections

3 Closing weights

- Easy fitting and maintenance with screw-on weights
- Galvanized or stainless steel

4 Guiding profile / centring device

- Centring device for precise door guidance in the guiding profile

5 Guidance damper

- Galvanized or stainless steel
- Integrated into door leaf for single-leaf EI₂30 fire sliding doors

6 Integrated floor track roller

- Horizontally adjustable
- Concealed in door leaf after fitting

7 Hydraulic track control

- For continuously adjustable closing speeds (0.08 – 0.2 m/s)
- Invisibly integrated into the weight box

8 Wicket door

- Without threshold for escape routes acc. to DIN EN 179 and EN 1125
- With 22 mm threshold for additional stability and for ascending floors or parking ramps, e.g. in underground garages

Wicket door monitoring via radio

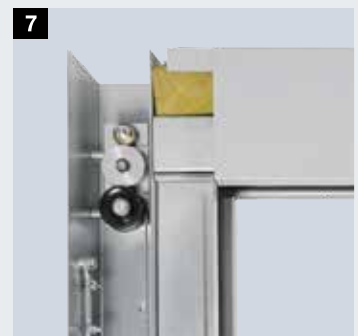
- Concealed radio magnetic contact in the wicket door
- No possibility of operational damage
- Optional spiral cable and socket at the end of the door leaf with concealed cable routing in the door leaf

9 Glazing in wicket door and door leaf

- Maximum glass size of 500 mm × 1000 mm
- Glazing size: 468 mm × 815 mm (standard)

10 Grip and recessed handles

- High-quality stainless steel version as standard



Surface Finishes and Colours

Galvanized, colour-coated or stainless steel

Surface finishes and colours

For the door and door leaf you can choose between the standard Pearlgrain and smooth sheet steel surfaces. The frame parts are supplied with a smooth surface in both versions.

The flush and fully bonded sliding doors are delivered with galvanized sheet steel as standard. For a harmonious door appearance, the doors including frame parts are optionally available in primed Grey white RAL 9002 or with powder-coated primer in 7 preferred colours, RAL to choose, metallic colours or NCS colours.

Stainless steel version

For special visual or construction requirements, doors in stainless steel V2 A, 1.4301 with a 240 K grain size are available. All components, such as the door leaf, tracks, cladding, weight boxes, cables, rollers and support brackets are made of stainless steel. We also deliver optional closing weights in stainless steel V2 A, 1.4301.

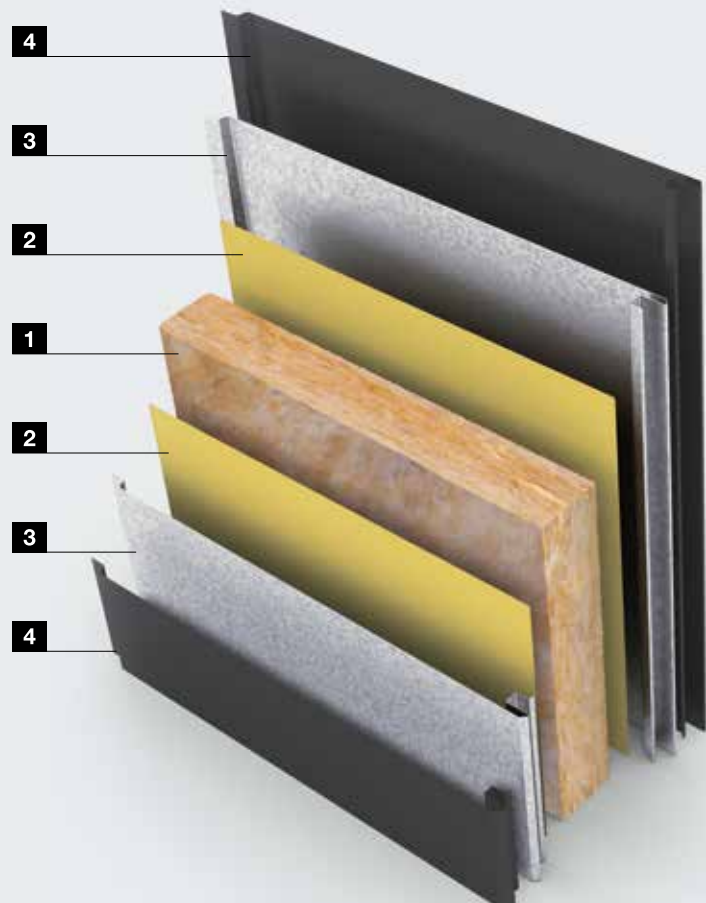
Additional versions on request



We can also provide you with frame parts in an inexpensive, galvanized version for coloured doors on request. **// NEW**

Door leaf design

- 1** Fire protection material
- 2** Fully bonded
- 3** Optional galvanized sheet steel:
stainless steel V2 A, 1.4301
- 4** Optional: Priming in RAL 9002 or primer powder-coating in 7 preferred colours or in RAL to choose, metallic colours or NCS colours.



Pearlgrain version
A robust and highly resistant surface finish
for warehouses and high-traffic areas

Surface finishes

Only from Hörmann



Pearlgrain, galvanized

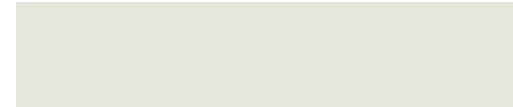


Smooth sheet steel, galvanized



Stainless steel V2 A, 1.4301, K 240

Priming



Grey white RAL 9002

Preferred colours



Flame red RAL 3000



Anthracite grey RAL 7016



Light grey RAL 7035



White aluminium RAL 9006



Grey aluminium RAL 9007



Pure white RAL 9010



Traffic white RAL 9016



RAL to choose
 We also supply all doors optionally in RAL to choose, metallic colours, or NCS colours.

All colours based on RAL.

El₂30 / El₂90 Fire and Smoke-Tight Sliding Doors FST

Single-leaf, double-leaf and telescopic versions

**T30****Fire-retarding**

Single-leaf
Double-leaf
Telescopic, double, triple

El₂30**T90****Fire-proof**

Single-leaf
Double-leaf
Telescopic, double, triple

El₂90**RS****Smoke-tight**

Single-leaf
Double-leaf

Sm**dB****Acoustic rating // NEW**

El₂30: up to 29 dB
El₂90: up to 31 dB

**Wicket door**

Single-leaf
Double-leaf
Telescopic

**Stainless steel**

V2 A, 1.4301

Further Information

- Surface finishes / colours page 14
- Operators page 24
- Wicket doors page 20
- Special equipment page 26

Convenient operator solution with the optional SupraMatic HT and ITO 400 operators

Door type	Single-leaf	Double-leaf*	Telescopic
T30 / EI₂30 fire-retarding			
Width (mm)	1000 – 8500	2000 – 8500	2000 – 8500
Height (mm)	2000 – 6000	2000 – 6000	2000 – 6000
Acoustic rating	Up to 29 dB (for all versions)		
T90 / EI₂90 fire-proof			
Width (mm)	1000 – 8000	2000 – 8000	2000 – 8000
Height (mm)	2000 – 6000	2000 – 6000	2000 – 6000
Acoustic rating	Up to 31 dB (for all versions)		
RS smoke-tight**			
Width (mm)	1000 – 3000***	2000 – 3000***	
Height (mm)	2000 – 4500***	2000 – 4500***	
Minimum door sizes with wicket door			
Width (mm)	1650	2750	3500
Asymmetrical division of leaves			
Height (mm)	2100	2100	2100
Asymmetrical division of leaves			
Width (mm)	1650	3500	
Symmetrical division of leaves			
Height (mm)	2100	2100	
Symmetrical division of leaves			

* Division in width left/right at least 1000 mm

** With wicket door, max. 20 m²

***Max. size RS smoke-tight 7000 × 4500 mm (width × height) possible with case-by-case approval

Important: Larger door heights and widths possible on request and with approval in individual cases. Max. door height 9000 mm manufactured from one piece.

Wicket door

Standard size (standard)

Width (mm)	1000
Height (mm)	2000

T30 / EI₂30 fire-retarding

Width (mm)	625 – 1200
Height (mm)	1750 – 2000

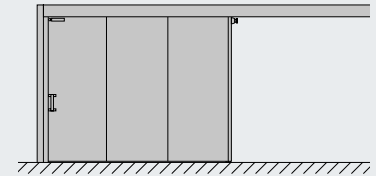
T90 / EI₂90 fire-proof

Width (mm)	625 – 1050
Height (mm)	1750 – 2000

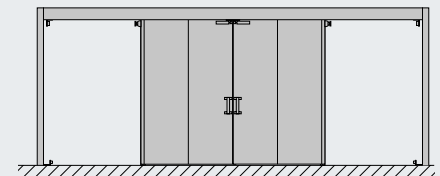
RS smoke-tight

Width (mm)	625 – 1200
Height (mm)	1750 – 2000

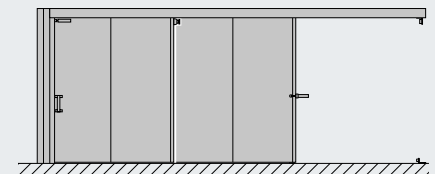
Single-leaf



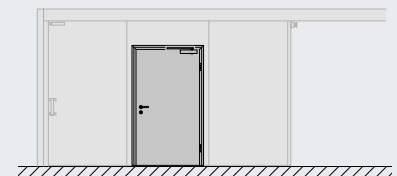
Double-leaf



Telescopic sliding door



Wicket door



Multi-Purpose Sliding Doors FST MZ

Single-leaf, double-leaf and telescopic versions

**MZ****Multi-purpose**

Single-leaf
Double-leaf
Telescopic, double, triple

MZ_A**Multi-purpose Aqua**

With water-resistant PU infill
Single-leaf
Double-leaf
Telescopic, double, triple

dB**Acoustic rating // NEW**

With mineral wool infill
up to 29 dB

**Wicket door**

Single-leaf
Double-leaf
Telescopic

**Stainless steel**

V2 A, 1.4301

**Further Information**

- Surface finishes / colours page 14
- Operators page 24
- Wicket doors page 20
- Special equipment page 26

NEW: Acoustic rating sliding doors FST

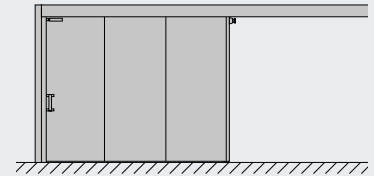
Door type	Single-leaf	Double-leaf*	Telescopic
MZ multi-purpose			
Width (mm)	1000 – 12000	2000 – 9000	2000 – 12000
Height (mm)	2000 – 9000	2000 – 9000	2000 – 9000
Acoustic rating	Up to 29 dB (with mineral wool infill)		
Minimum door sizes with wicket door			
Width (mm)	1650	2750	3500
Asymmetrical division of leaves			
Height (mm)	2100	2100	2100
Asymmetrical division of leaves			
Width (mm)	1650	3500	
Symmetrical division of leaves			
Height (mm)	2100	2100	
Symmetrical division of leaves			

* Division in width left/right at least 1000 mm

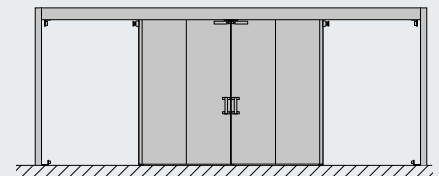
Multi-purpose doors are supplied as standard with a honeycomb infill. External doors are optionally available with a mineral wool infill, track cover and hold-open locking function. Aqua multi-purpose doors come with a water-resistant PU infill. They are available in steel and stainless steel.

	Wicket door
Standard size (standard)	
Width (mm)	1000
Height (mm)	2000
Special sizes	
Width (mm)	625 – 1200
Height (mm)	1750 – 2000

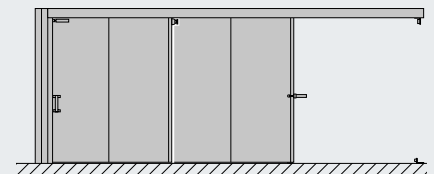
Single-leaf



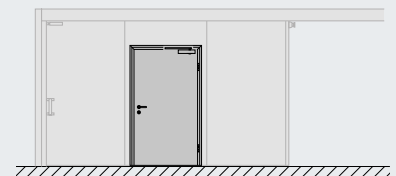
Double-leaf



Telescopic sliding door



Wicket door



Wicket Doors

Version without threshold also approved for smoke-tight sliding doors





Only from Hörmann

Wicket door without threshold rail also approved for smoke-tight sliding doors

Design features

- Rebated door construction
- Version without threshold for escape routes acc. to DIN EN 179 and EN 1125
- Version with 22 mm threshold for additional stability and for ascending floors or parking ramps, e.g. in underground garages
- With smoke-protection function up to 20 m² door surface
- Up to 2 wicket doors per door leaf
- Wicket door opening in both directions, depending on the source of danger (also in opposite direction of opening)
- Optional glazing: standard size 468 × 815 mm, special size max. 500 × 1000 mm

Wicket door monitoring via radio

- Radio transmission with magnetic contact and transmitter in door leaf
- Separate receiver incl. wall fitting
- Optional latch switching contact and electric strike (signal transmission system with concealed wiring and spiral cable at end of door leaf)

Overhead door closer

- Standard slide rail overhead door closer HDC 35
- Optional integrated overhead door closer ITS 96

Fittings

- 3-dimensional adjustable hinges, for easy adjustment of the door
- Optional in stainless steel or RAL colours

Lock Variants

- Mortice lock for fire-rated and smoke-tight doors in accordance with DIN 18250 (standard BKS 1206)
- Optional panic function in accordance with EN 179 and EN 1125 for wicket doors opening into the reveal

Clear passage

- T30 / EI₂30: up to 1000 × 2000 mm (standard)
- T30 / EI₂30: up to 1200 × 2000 mm (according to the requirements of high-rise policy HHRL M-V)
- T90 / EI₂90: up to 1000 × 2000 mm

Wicket door versions

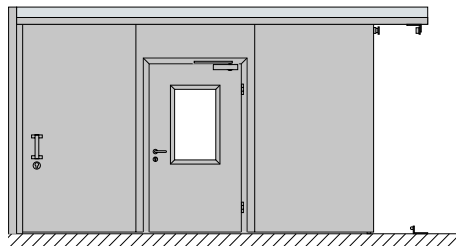


Version without threshold for escape routes acc. to DIN EN 179 and EN 1125

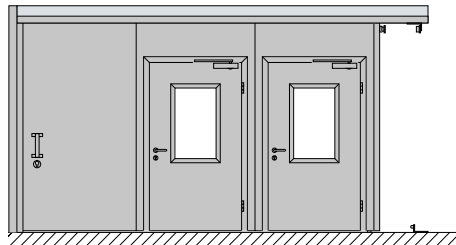


Version with 22 mm threshold for additional stability and for ascending floors or parking ramps, e.g. in underground garages

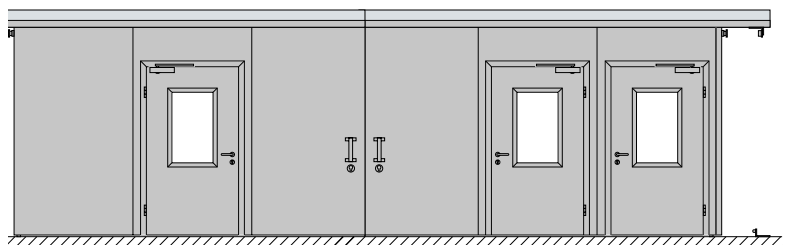
Approved variants of the wicket door



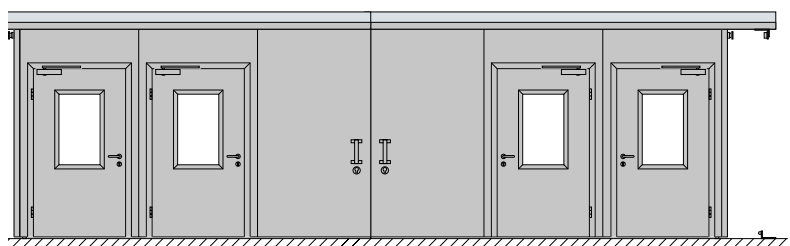
Single-leaf with wicket door



Single-leaf with two wicket doors



Double-leaf with three wicket doors



Double-leaf with four wicket doors

Flush-Stopping Sliding Door

For maximum clear passage width

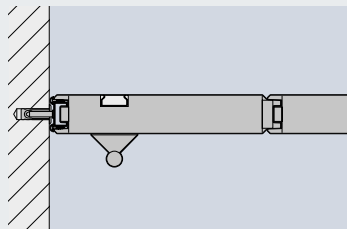
EI₂30

Flush-stopping fire sliding door without guiding profile

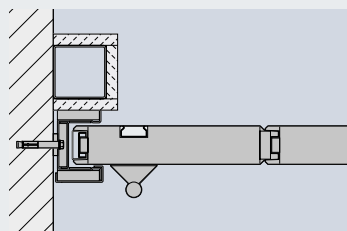
In this exclusive solution for construction projects, the door closes flush with the wall thanks to a stainless steel fascia. The full clear passage remains available. There is no need for a guiding profile which would disturb the overall appearance.

Versions / functions

- T30 / EI₂30 fire sliding door, flush-stopping
- Spring-loaded stainless steel guide bolt, intumescent coating and rubber double seal ensure safety
- Flush, fully bonded door sets
- Single-leaf
- Max. size 7500 × 4500 mm



Sliding door without guiding profile



Sliding door with guiding profile



Spring-loaded stainless steel guide bolt

Recess and Ceiling Flaps

For an inconspicuous integration of the door



Recess flap with the door closed



Recess flap with the door opened



Recess flap stainless steel V2 A



Recess flap with cladding frame for timber embellishment

Recess and ceiling flaps

The solution if sliding doors have to be inconspicuously integrated in the wall and ceiling.

A vertical recess flap blends the inlet and outlet areas of the door.

The minimum width for a recess flap is 180 mm.

In the lintel area, the tracks can be horizontally blended with a ceiling flap. It is manually closed. The opening is triggered automatically through a control.

Recess and ceiling flaps are also available for telescopic sliding doors. The flaps can be galvanized, primed, coated in paint or in stainless steel V2 A, 14301. Optionally available with stainless steel cladding frame for cladding with gypsum board, timber or tiles.

Operator Solutions for Sliding Doors

Opening and closing during daily operation



Combination with the operators
SupraMatic HT und ITO 400



1

Stainless steel fire sliding doors that require opening and closing several times a day can be equipped with a convenient and fast operator. The operator is maintenance-free and particularly suited for high-traffic areas.

- Quick opening and closing during daily operation
- A patented compensator release system unlocks the operator in case of fire
- Reliable closing of the fire-rated sliding door by weights in case of fire



2

1 Operator SupraMatic HT

- Up to 800 kg weight of door leaf
- Up to 6090 mm clear passage width
- **Impulse operation "Open-Close"**
- Operation via hand transmitter or button
- With internal control as standard
- Optionally with external control 360 with automatic timer

2 Chain drive operator ITO 400

- Up to 2500 kg weight of door leaf
- Up to 6000 mm clear passage width
- **Press-and-hold operation "Open-Close"**
- Operation via button
- With external control A 445 as standard
- Optionally as FU version with external control B 460 FU with soft start and soft stop

Convenient operator solution with the optional *SupraMatic HT* and *ITO 400* operators



Controls

1 External control 360

- Optional for SupraMatic HT
- With automatic timer
- With second opening width, half-open
- With traffic lights connection

2 Control A 445

- As standard for ITO 400

3 FU control B 460 FU

- Optional for ITO 400
- With soft start and soft stop



Control elements

1 4-button hand transmitter HS 4 BS

- Optional for SupraMatic HT

2 Key switch STUP 50 / STAP 50

- Optional for SupraMatic HT and ITO 400

3 Push button DT 02

- Optional for SupraMatic HT and ITO 400

4 Radio internal push button FIT 1 BS

- Optional for SupraMatic HT

5 Traffic lights

- Optional for SupraMatic HT with external control 360
- Optional for ITO 400



Opening aid

Automatic door opening with press-and-hold operation.

The integrated hold-open device ensures that the door leaf is secure in the open position. The door is closed via closing weights by actuating the hand button. The opening aid is maintenance-free and optionally available with a key switch. It is ideal for opening large doors.

Special Equipment

For special requirements

Compensator

The compensator allows for free positioning of the door leaf. This means the door can be easily opened, for example only halfway, making it ideal for fire sliding doors that are operated multiple times each day. The door closes automatically via the compensator carriage and counter weight in the case of fire, with the push of a button or during a power failure. The radial damper for regulating the required timer speed (5 – 12 cm/s) is integrated in the compensator carriage.



Lockable door leaf and wicket door

Single and double-leaf fire sliding doors are optionally available with hook catch locks or curved bolt locks with profile cylinders in the door leaf.

Hook catch lock

- Backset 120 mm, profile cylinder and KABA
- Backset 250 mm, profile cylinder; for example, for recess flaps

Curved bolt lock

- Backset 120 mm, profile cylinder and KABA

For simple retrofitting of single and double-leaf doors, a retrofit lock is available.



Acoustic and visual/acoustic alarm system

In addition to the standard alarm system with only an acoustic signal, an optional variant is available with both a visual and acoustic signal in accordance with DIN EN 14600 (see illustration).

Smoke sensor

The smoke sensor is available with visual smoke detection (ORS 142) or thermal differential switch (TDS 247). Special versions can also be installed in cold store areas.





Anti-collision bollard and collision guard

Available as optional crash protection for galvanized or painted RAL 1021 (Rape yellow) sliding doors.

Anti-collision bollard (W x H)

- 1000 x 114 mm

Anti-collision bollard (W x H)

- 1250 x 400 mm, type 1
- 625 x 400 mm, type 2

Hinged Garage Doors DFT FST

Single-leaf up to 4000 mm x 4000 mm



MZ Multi-purpose
Single-leaf

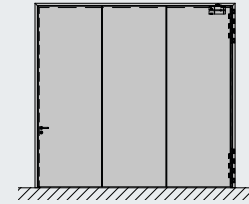
EI₂30 Fire-retarding
Single-leaf

Further Information
• Surface finishes / colours page 14

The ideal solution when fitting of sliding doors is not possible.

Door type	Single-leaf
MZ multi-purpose	
Width (mm)	1625 – 4000
Height (mm)	2000 – 4000
EI₂30 fire-retarding	
Width (mm)	1625 – 4000
Height (mm)	2000 – 4000

Single-leaf



Flush, fully bonded groove/spring element with a door leaf thickness of 72 mm



Block frame 140 / 75 mm, 3-part with all-round lining groove on three sides



2-way adjustable, galvanized hinges



90° open position with magnet



Lever/knob mortice lock BKS 1206 with stainless steel lock cover and lock plate

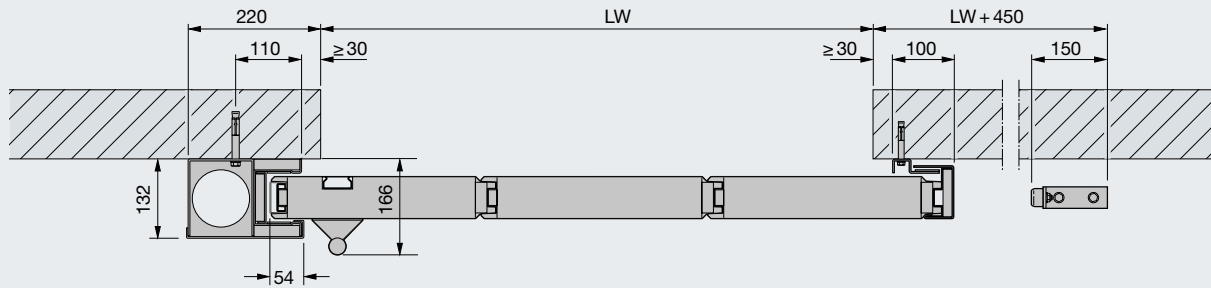


Overhead door closer TS 4000 for fire-retarding version

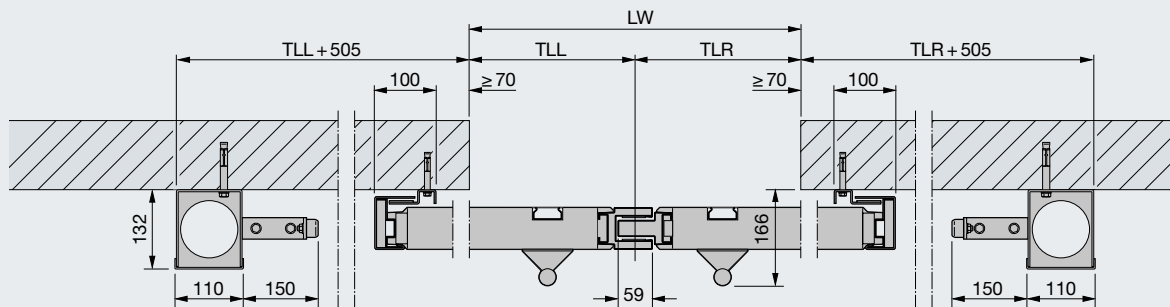
Horizontal Views

Single-leaf, double-leaf and telescopic versions

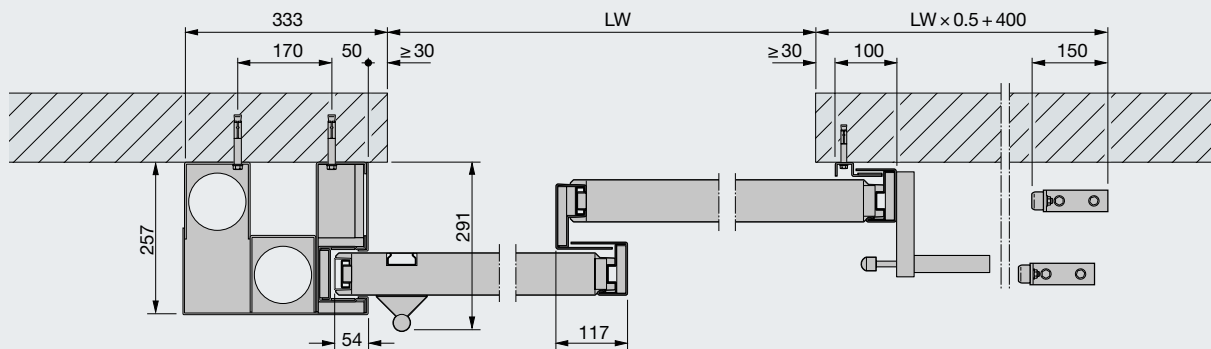
Single-leaf version



Double-leaf version



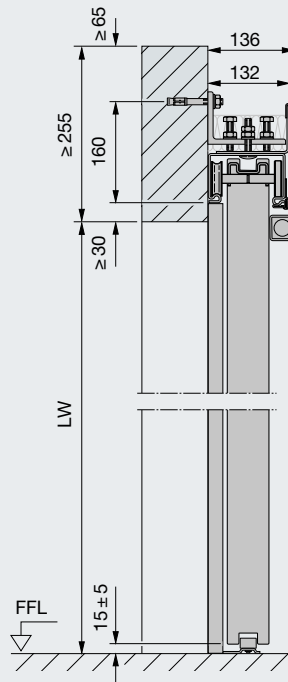
Double telescopic version



Vertical Views

Single-leaf, double-leaf and telescopic versions

Single and double-leaf version



Explanations

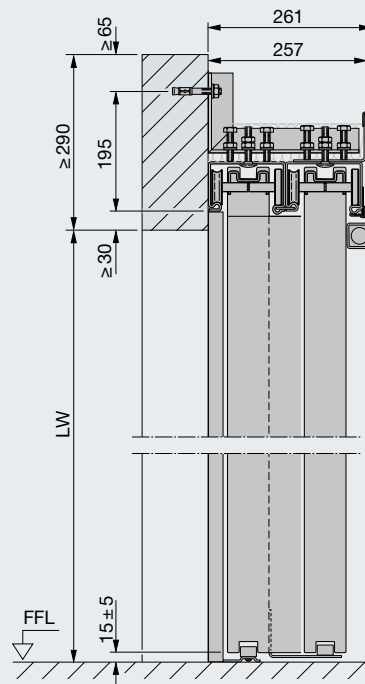
- LW Structural opening
- TLL Division left
- TLR Division right

The illustrated door views show versions with standard guiding, wall fitting, and without a smoke-tight function.

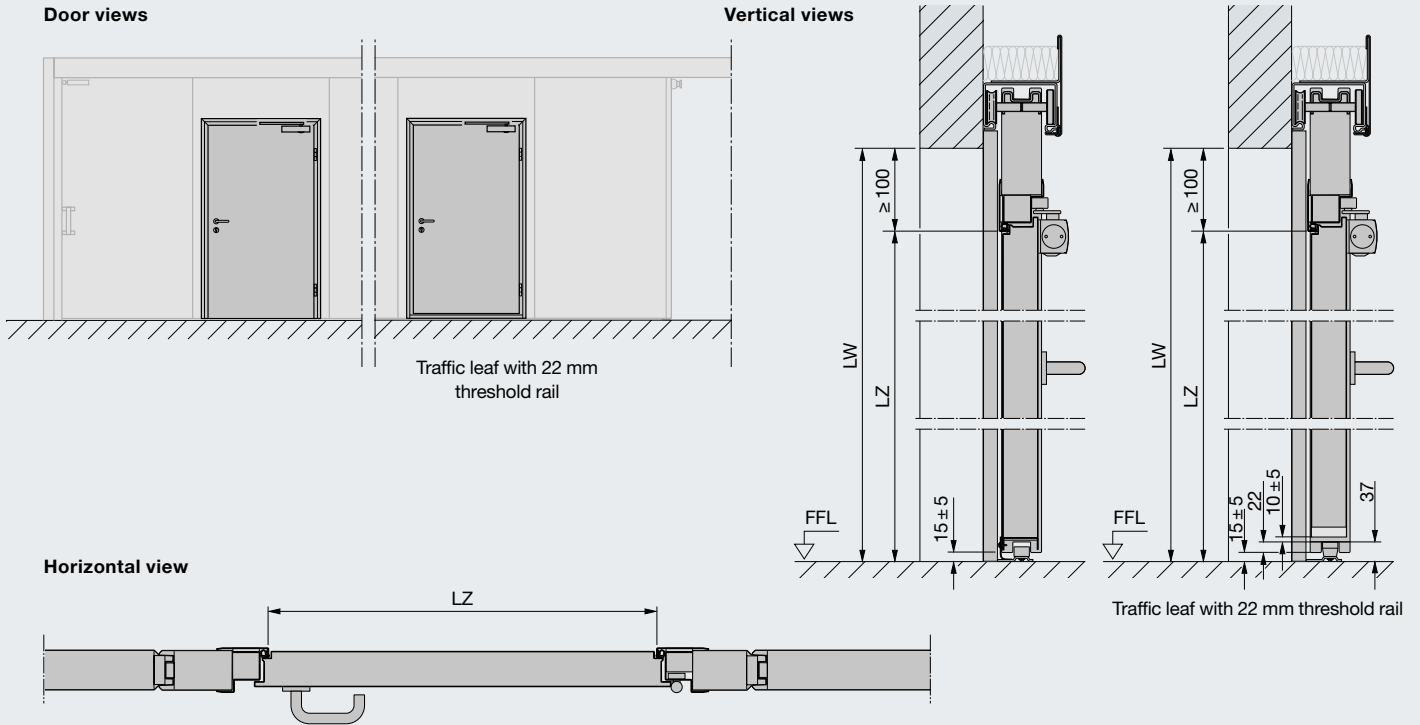
Note

The construction tolerances to be complied with depend on the requirements provided in the official approval of the fire-rated and smoke-tight sliding doors.

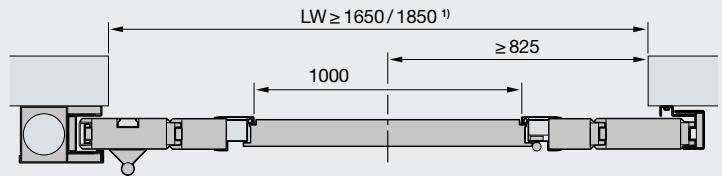
Double telescopic version



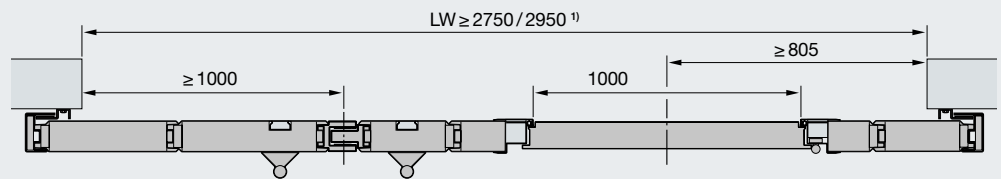
Sliding Doors with Wicket Door



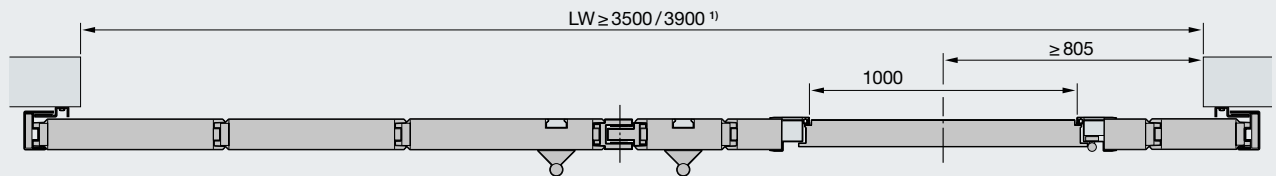
Single-leaf fire sliding door



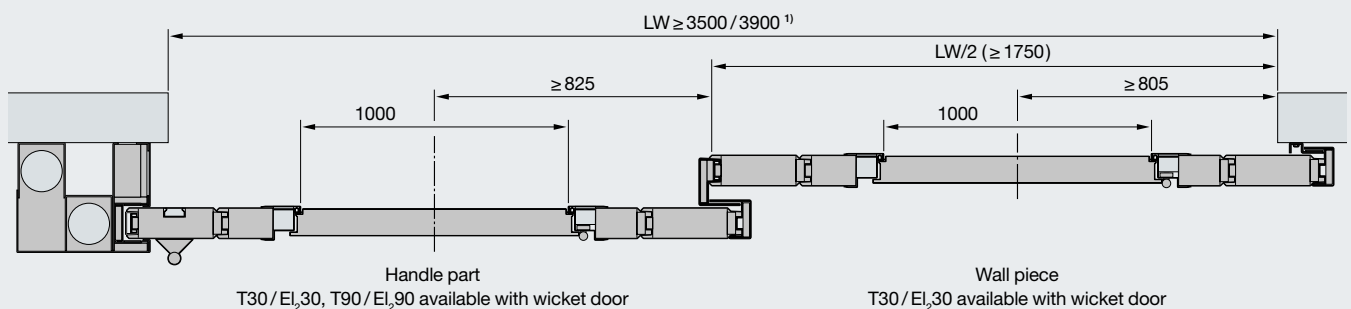
Double-leaf fire sliding door, asymmetrical division



Double-leaf fire sliding door, symmetrical division



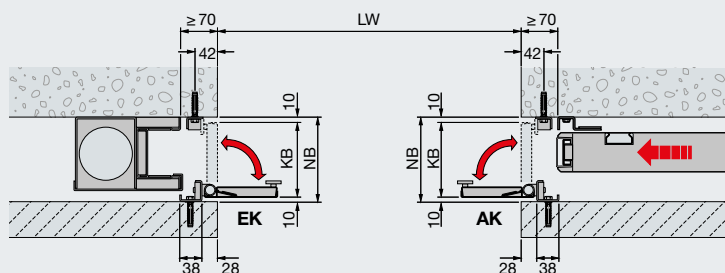
Double telescopic door



Recess and Ceiling Flaps

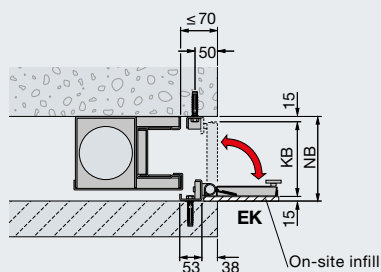
Recess flaps for the wall area

Horizontal view, single and double-leaf sliding door



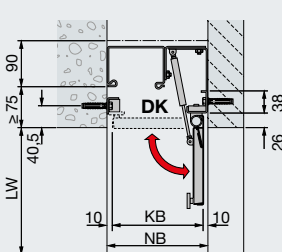
Recess flaps for on-site infill

Horizontal view, single and double-leaf sliding door



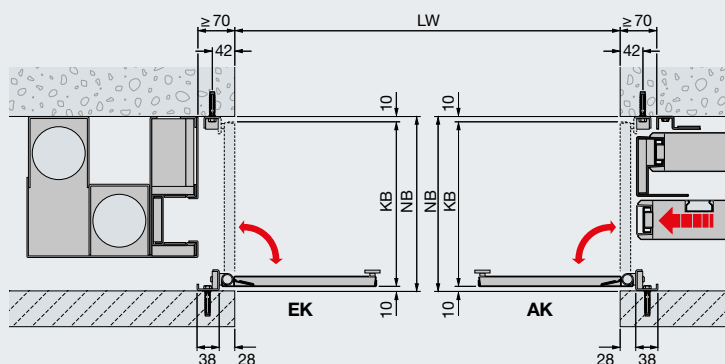
Ceiling flaps for the lintel area

Vertical view, single and double-leaf sliding door



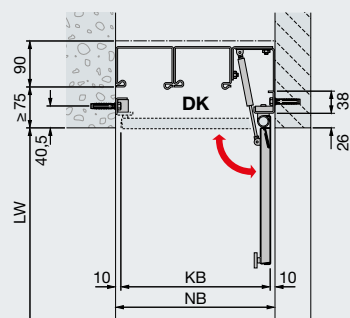
Recess flaps for the wall area

Horizontal view, telescopic sliding door



Ceiling flaps for the lintel area

Vertical view, telescopic sliding door



Explanations

- LW Structural opening
- LZ Clear frame dimension
- EK Inlet flap
- AK Outlet flap
- DK Ceiling flap
- KB Flap width
- NB Recess width

The illustrated door views show versions with standard guiding, wall fitting, and without a smoke-tight function.

Note

For a recess width ≤ 340 mm a door leaf with recessed handle on both sides (vertically offset) is required. For doors with fitted traffic leaf, recessed lever handles and Dorma ITS 96 are required. Retrofitting of recess flaps in existing door systems is not possible, due to the required larger door overlap.

The construction tolerances to be complied with depend on the requirements provided in the official approval of the fire-rated and smoke-tight sliding doors.

Cladded recess flaps

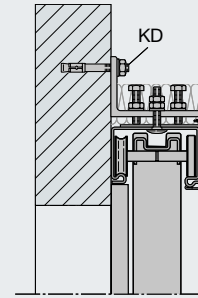
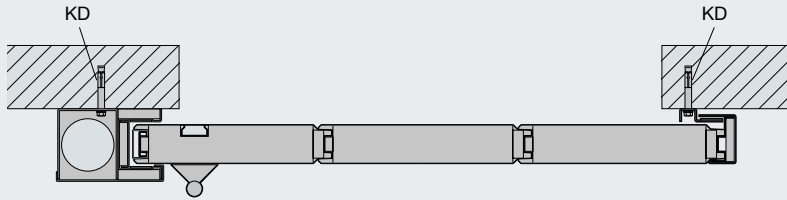
Cladding on a stainless steel cladding frame with timber, gypsum and tiles is possible up to a thickness of 10 mm. Max. cladding weight: 25 kg/m²

Space requirements and edge gaps deviate from the values for the standard flaps.

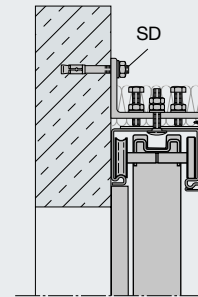
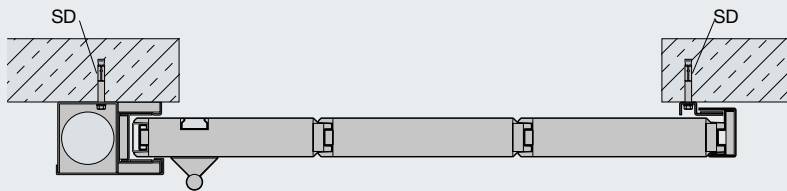
¹⁾ Wicket doors with a clear passage width > 1000 mm

Fitting Data

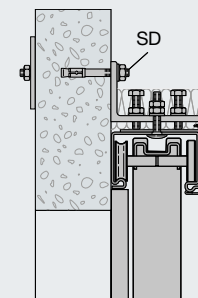
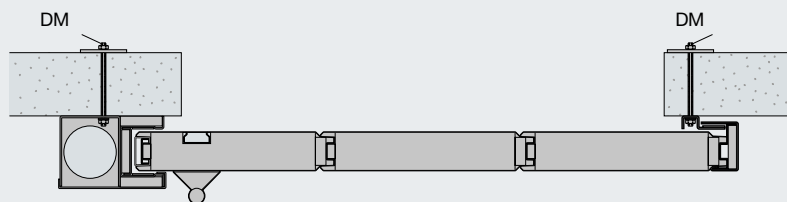
Brickwork walls



Concrete walls

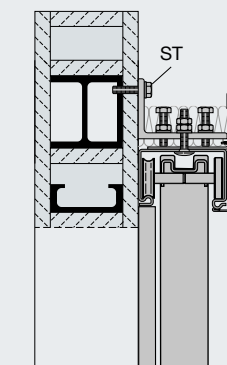
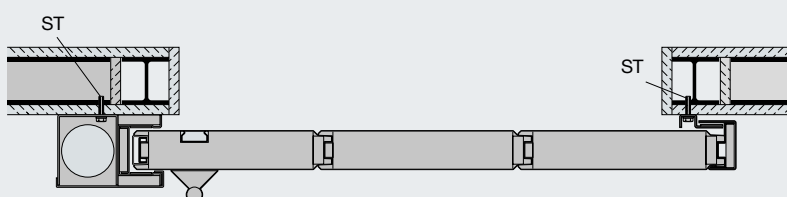


Gas concrete walls



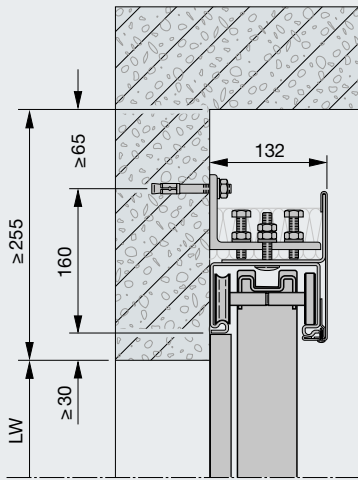
Only in combination with a steel concrete lintel according to the static proof. The lintel must extend beyond the door opening area in line with the door track length.

Cladded steel components

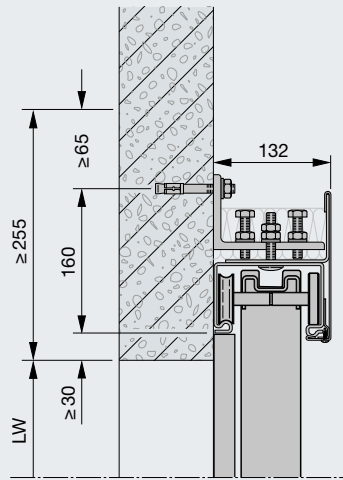


Cladded steel supports and/or girders, minimum fire-resistance class F90, short designation F90-A according to DIN 4102-4.

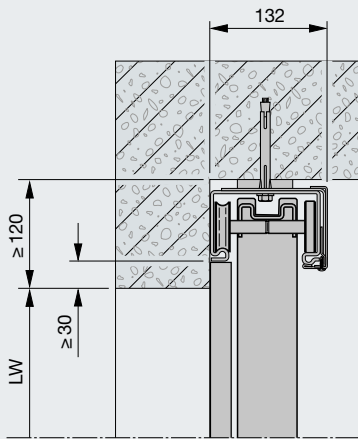
Wall fitting to the lintel



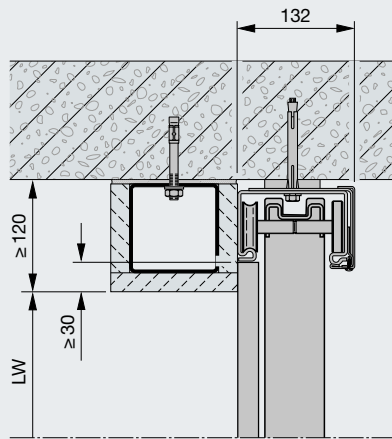
Fitting to the wall



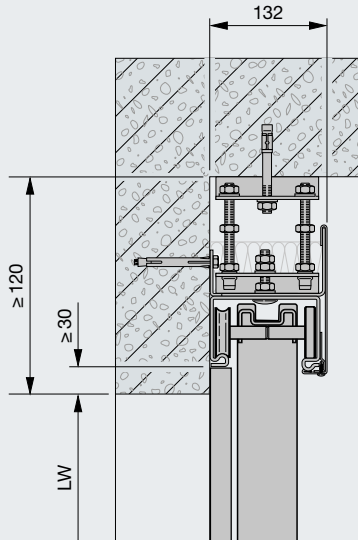
Direct fitting to the ceiling



Direct fitting to the ceiling with a false lintel



Suspended ceiling fitting (only for parking area)



Explanations

- LW Structural opening
- DM Through-bolt fixing with threaded rod M10 nut, pane and counterplate 80 × 80 × 5 mm
- SD Steel expansion dowels Ø 10 (M6) × ≥ 80
- ST M8 steel screw
- KD Plastic dowel 10 × 120 mm

Minimum wall thicknesses

Brickwork walls according to DIN 1053-1², strength class min. 12, normal mortar ≥ II: 175 mm
 Concrete walls according to DIN 1045-1, strength class min. C 12/15: 140 mm
 Walls made of gas concrete, stone slabs or concrete precision blocks according to DIN 4165⁴ part 3, strength class 4: 240 mm
 Walls made of reinforced gas concrete slabs, laid flat or standing, provided general official approval is available; strength class 4.4: 200 mm

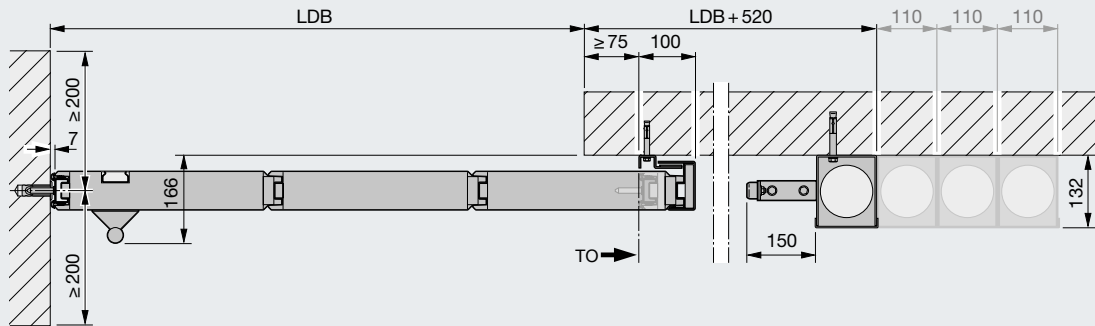
Note

The construction tolerances to be complied with depend on the requirements provided in the official approval of the fire-rated and smoke-tight sliding doors.

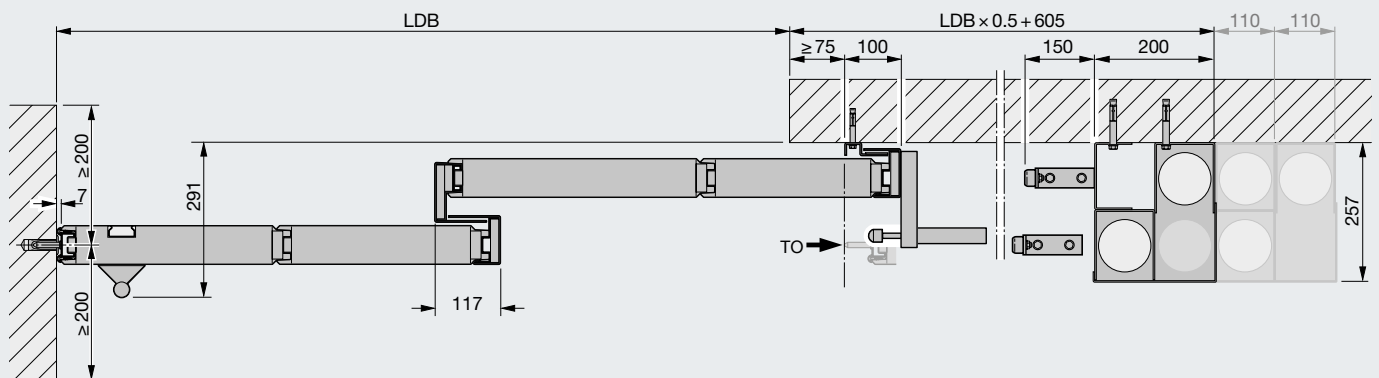
Flush-Stopping Sliding Door

Without guiding profile

Flush-stopping single-leaf sliding door



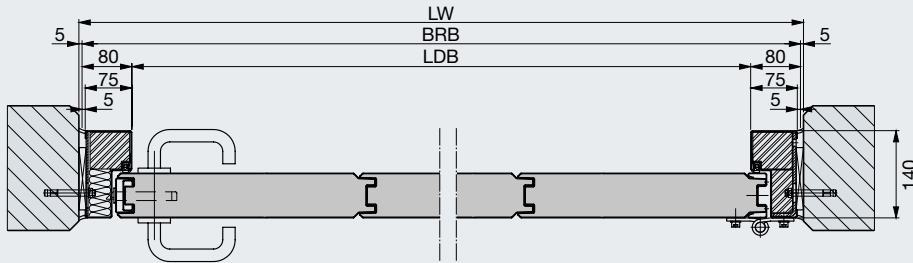
Flush-stopping telescopic sliding door



Technical Data

Hinged garage doors DFT FST

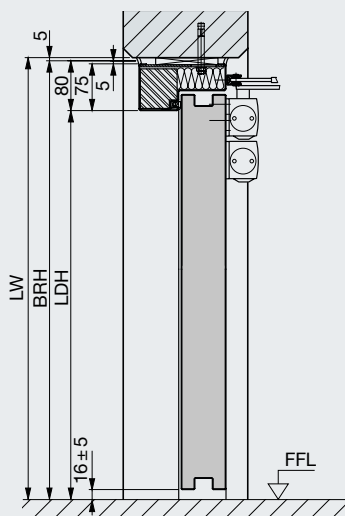
Horizontal view



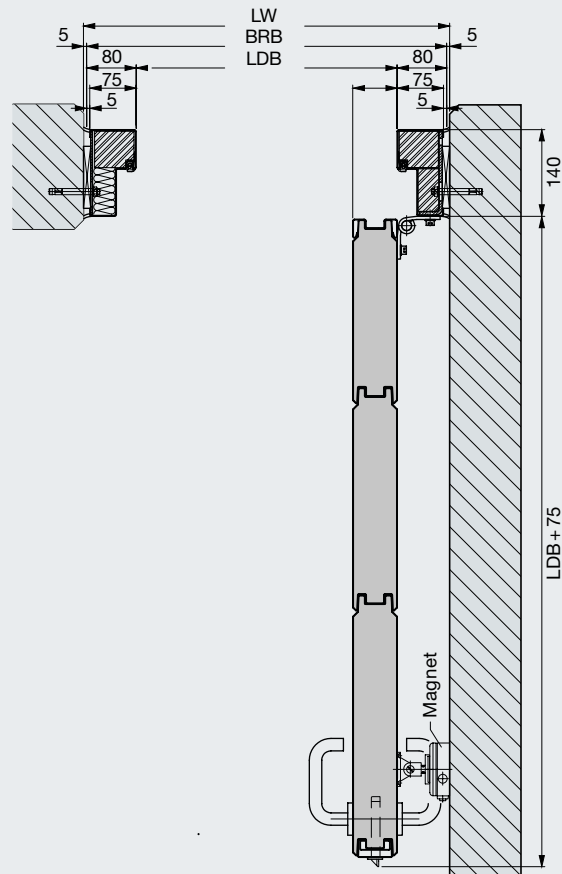
Explanations

- LW Structural opening
- BRB Nominal size width
- LDB Clear passage width
- BRH Nominal size height
- LDH Clear passage height

Vertical view



90° open position



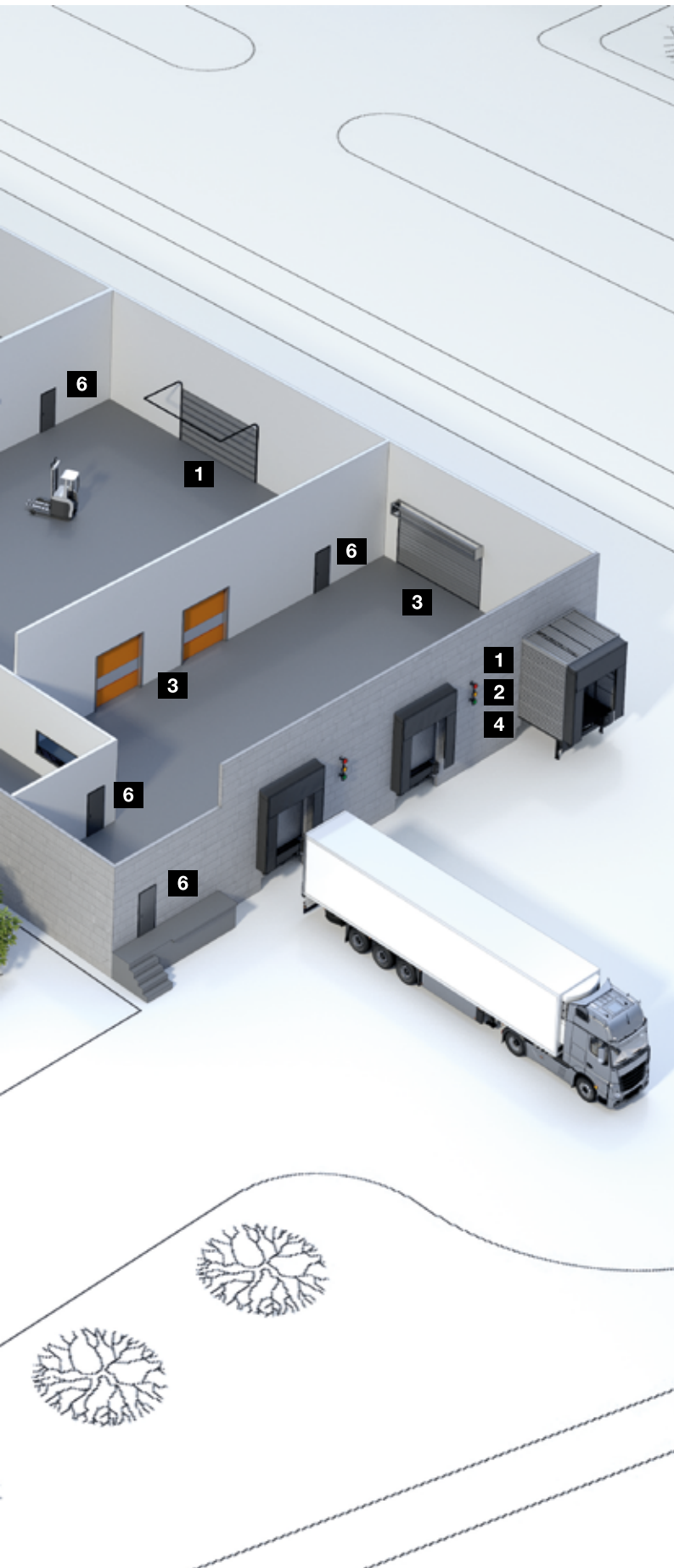
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Automatic sliding doors



Visibility window



Collective garage doors



Perimeter Protection Systems