



FST Steel and Stainless Steel Sliding Doors

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

T30 El₂30 T90 El₂90 RS Sm MZ

HÖRMANN





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

Brand-name quality from Hörmann for top safety and reliability



Lenwerk 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





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 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 all its multi-function doors 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.



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



Hörmann's Architects' Program

More than 9000 drawings for over 850 products



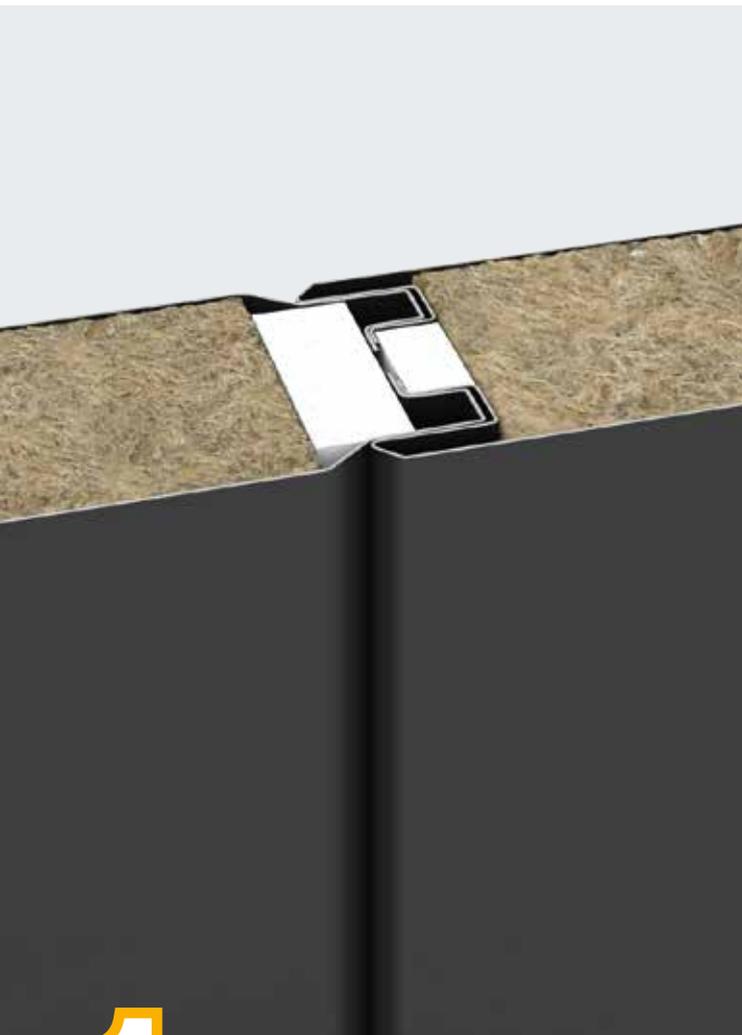
The Architects' Program

Planning with Hörmann products is now even easier thanks to a modern, user-friendly interface. A clear structure using 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) for over 850 Hörmann products. Photo-realistic presentations provide additional information on many products.

The Architects' Program 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 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.



Only from Hörmann



Only from Hörmann

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 operator allows for fast opening and closing in daily operation. 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 and a closing weight safely closes the door. The door is then reliably closed via weights. Optionally, the SupraMatic HT operator can be equipped with an external control 360 and additional features.

Quality in the details

High-quality door construction for demanding architecture





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

- Blends well with the door leaf
- Galvanized, RAL to choose or stainless steel
- Easy fitting with few screw fittings

3 Closing weights

- Easy fitting and maintenance
with screw-mountable 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
T30 / EI₂30 fire sliding doors

6 Integrated floor guide 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 Glazing in wicket door and door leaf

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

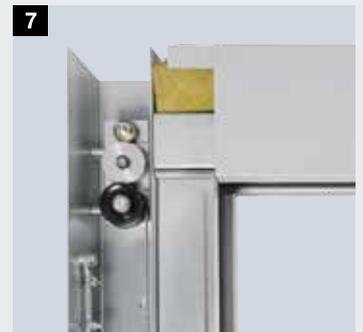
9 Grip and

10 recessed handles

- High-quality stainless steel version
as standard

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



Surface finishes and colours

Galvanized, colour-coated or stainless steel

Surface finishes



Only from Hörmann



Pearlgrain, galvanized



Smooth sheet steel, galvanized



Stainless steel V2 A, 1.4301, K 240



Galvanized, colour-coated

Pearlgrain version

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

Surface finishes and colours

For the door leaf you have a choice between the exclusive Pearlgrain (standard) or smooth steel sheet surfaces. The frame parts are smooth in both variations. The flush and fully bonded sliding doors are delivered galvanized as standard. Optionally, the doors are available in our 7 preferred colours or in RAL to choose, metallic colours or NCS-colours. The frame parts are also available with high-quality coating.

An inexpensive alternative is to order the powder-coated door leaf in the colour of your choice and the frame parts in the smooth galvanized version.

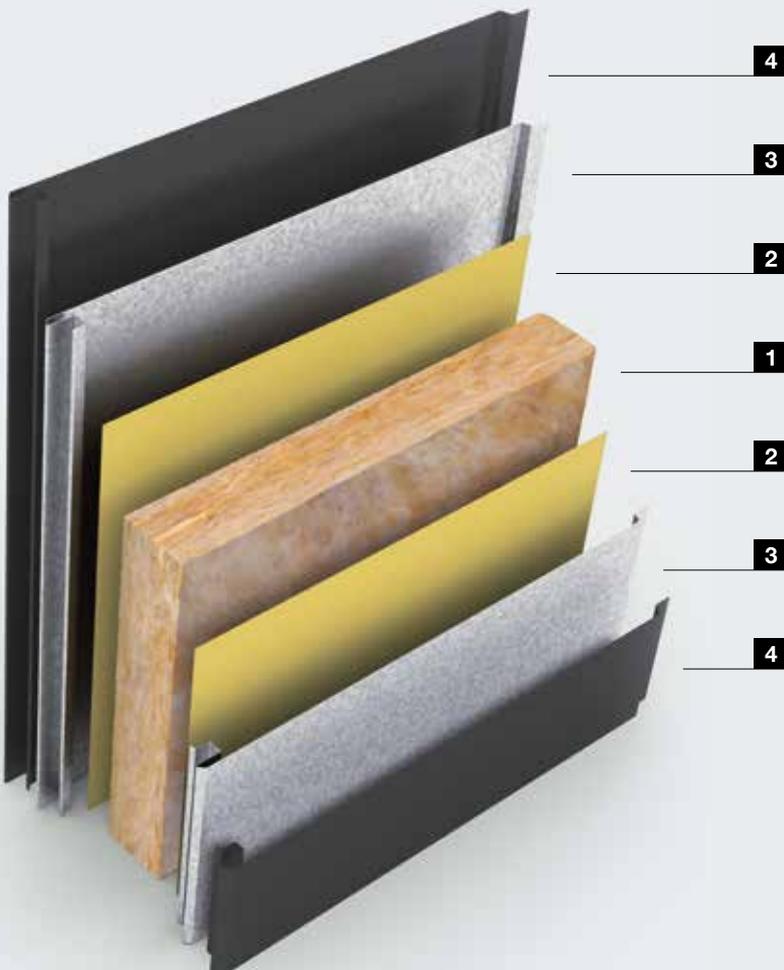
Stainless steel version

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

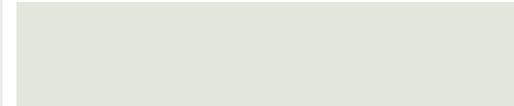
Additional versions on request

Door leaf design

- 1 Fire protection material
- 2 Fully bonded
- 3 Galvanized sheet steel or stainless steel V2 A, 1.4301
- 4 Powder-primer coating or powder coating in RAL to choose (optional)



Priming



Grey white

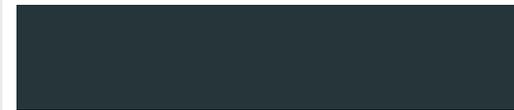
RAL 9002

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



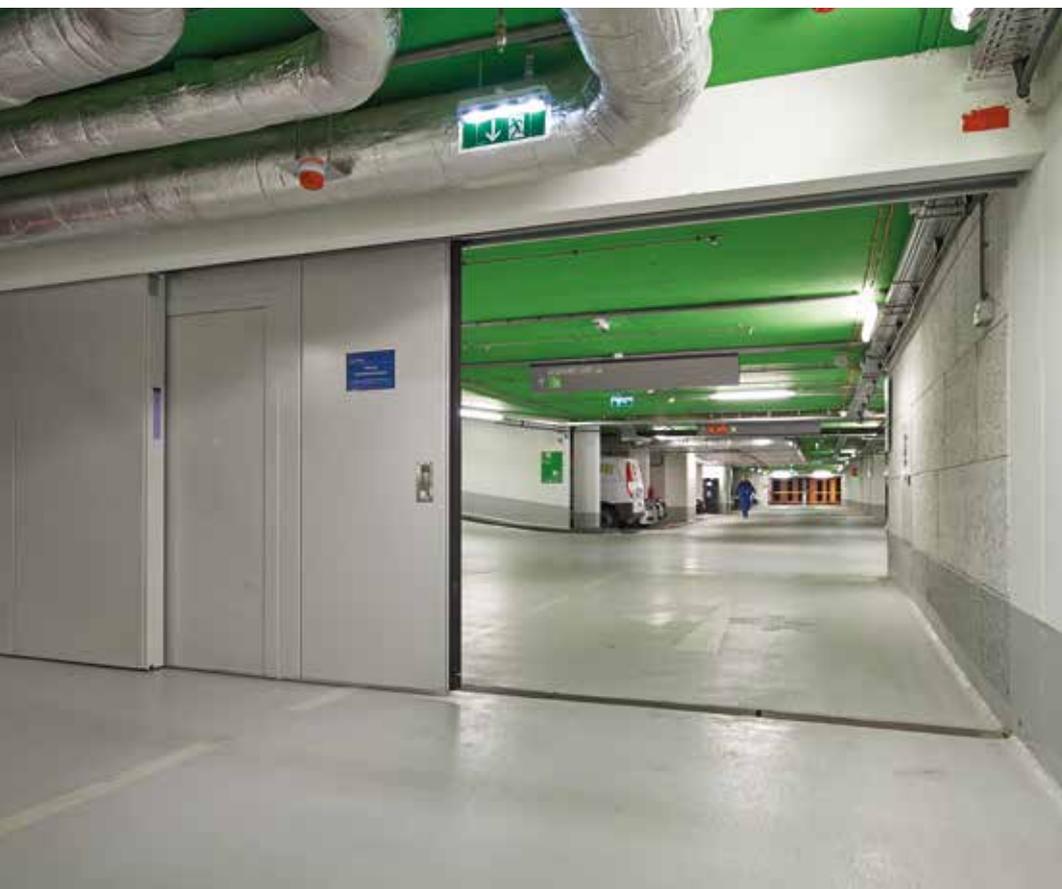
RAL to choose

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

All colours based on RAL.

T30 / T90 fire and smoke-tight sliding doors FST

Single-leaf, double-leaf and telescopic versions



T30

Fire-retarding

Single-leaf
Double-leaf
Telescopic, double, triple

EI₂30

T90

Fire-proof

Single-leaf
Double-leaf
Telescopic, double, triple

EI₂90

RS

Smoke-tight

Single-leaf
Double-leaf

Sm



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**

| 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 |
| T90 / EI₂90 fire-proof | | | |
| Width (mm) | 1000 – 8500 | 2000 – 8000 | 2000 – 8000 |
| Height (mm) | 2000 – 6000 | 2000 – 6000 | 2000 – 6000 |
| RS smoke-tight** | | | |
| Width (mm) | 1000 – 8500 | 2000 – 8000 | |
| Height (mm) | 2000 – 6000 | 2000 – 6000 | |
| 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 | | | |

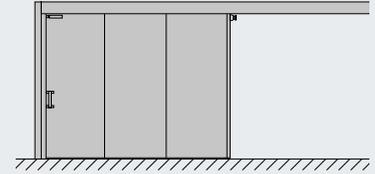
* Division in width left / right at least 1000 mm

** With wicket door, max. 20 m²

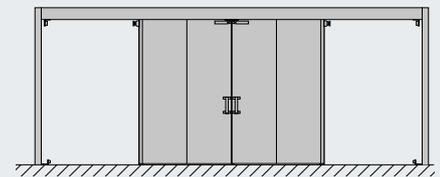
Important: Larger door heights and widths possible on request and with approval in isolated cases.
Max. door height 9000 mm manufactured from one piece.

| | 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 – 1000 |
| Height (mm) | 1750 – 2000 |

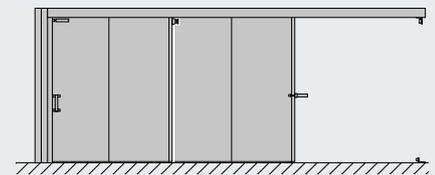
Single-leaf



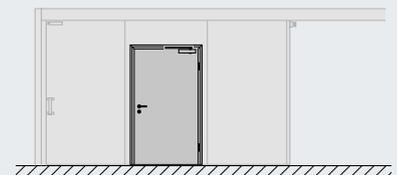
Double-leaf



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



Wicket door
Single-leaf
Double-leaf
Telescopic



Stainless steel
V2 A, 1.4301



Further Information

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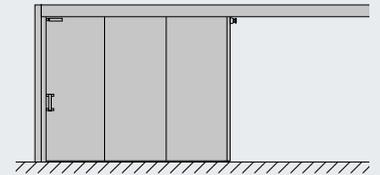
With track cover also suitable for exteriors

| 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 |
| Minimum door sizes with wicket door | | | |
| Width (mm) asymmetrical division of leaves | 1650 | 2750 | 3500 |
| Height (mm) asymmetrical division of leaves | 2100 | 2100 | 2100 |
| Width (mm) symmetrical division of leaves | 1650 | 3500 | |
| Height (mm) symmetrical division of leaves | 2100 | 2100 | |

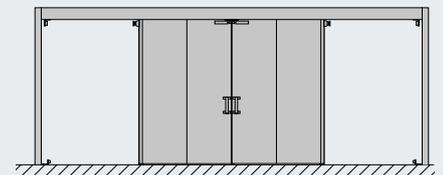
* Division in width left / right at least 1000 mm

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.

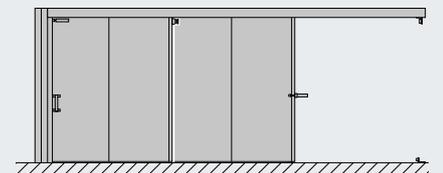
Single-leaf



Double-leaf

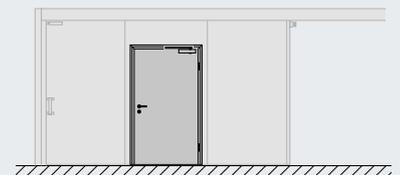


Telescopic sliding door



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

Wicket door



Wicket door without threshold rail

Also approved for smoke-tight sliding doors





Only from Hörmann

Approval also for smoke-tight sliding doors

Design features

- Rebated door construction without threshold rail
- Optional 22 mm threshold (e.g. for underground parking ramps)
- 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

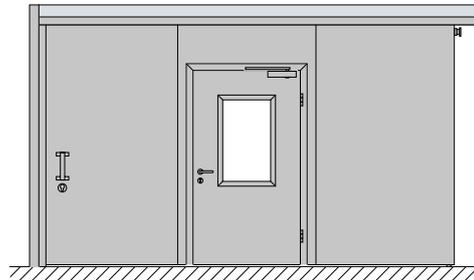
Lock Variants

- 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

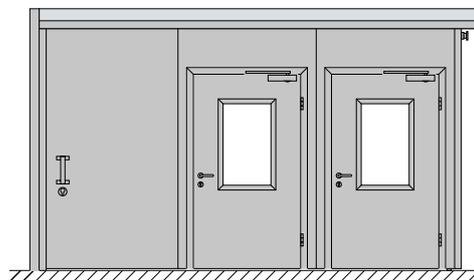
Clear passage

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

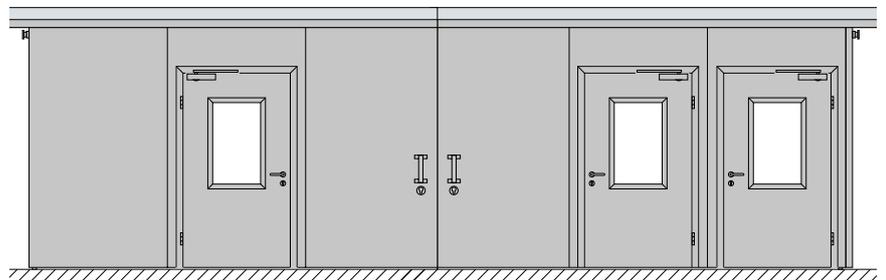
Approved variants of the wicket door



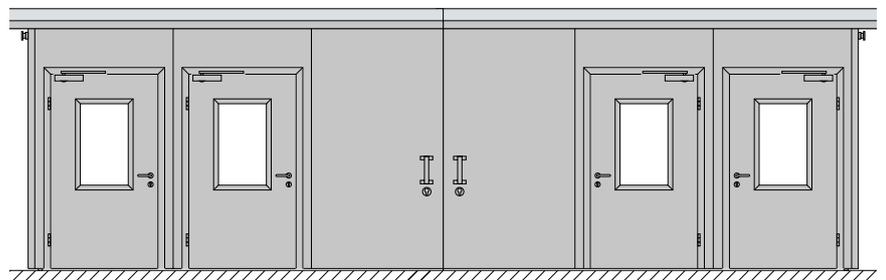
Single-leaf with wicket door



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

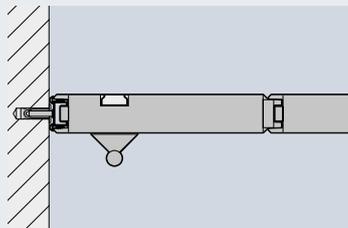
El₂30

Flush-stopping fire sliding door without guiding profile

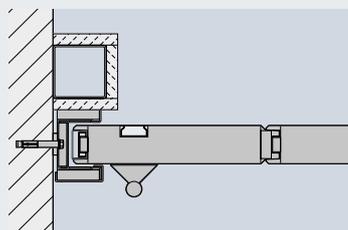
In this exclusive solution for construction projects, the door is flush with the wall thanks to a stainless steel fascia. The full clear passage remains available. There is no need for a guiding profile which would disturb the overall appearance.

Versions / functions

- T30 / El₂30 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. Optional available with stainless steel cladding frame for cladding with plaster, timber or tiles.

Operator solutions for sliding doors

Opening and closing during daily operation



SupraMatic HT operator



SupraMatic HT operator

Fire sliding doors that should be able to be opened and closed several times a day can be equipped with the convenient and fast SupraMatic HT operator. The operator is maintenance-free and particularly suited for high-traffic areas.

- Quick opening and closing during daily operation
- Convenient operation with push button, key switch or hand transmitter
- 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
- External control 360 with functions such as automatic timer, second opening width ½ / Open and the use of warning lights can be optionally connected



External control 360



4-button hand transmitter
HS 4 BS



Key switch STUP 30



Push button DT 02



Opening aid

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



High-speed multi-purpose automatic sliding door for interior use

Versions / functions

- Clear passage dimension, single-leaf 800 – 2800 mm
- Clear passage dimension, double-leaf 1500 – 2850 mm
- Opening speed 40 – 100 cm/s
- Closing speed 4 – 80 cm/s
- Main and secondary closing edges safeguarded by an active infrared sensor

Options

- Safeguarding based on light travel time measurement
- Operation via control panel

Special equipment

For special requirements

Compensator

The compensator allows for free positioning of the door leaf. This means the door can be easily opened, even, for example, only halfway, making the door ideal for a fire sliding door that is operated many 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 in 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 a 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 just an acoustic signal, an optional variant is available with 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

Collision guard (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



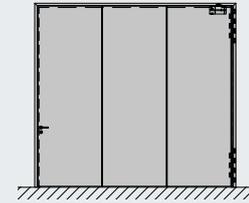
Further Information
• Surface finishes / colours page 14



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

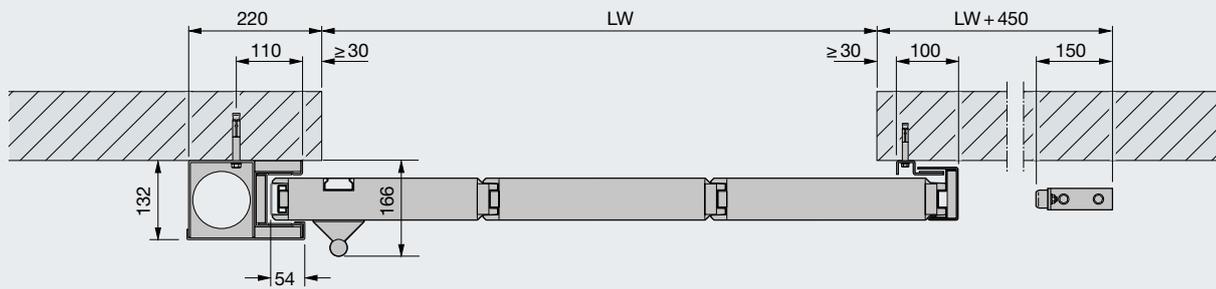


Overhead door closer TS 4000 for fire-retarding version

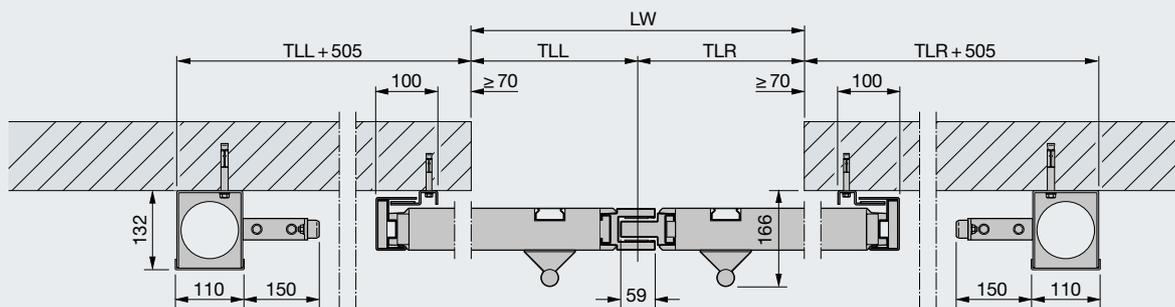
Horizontal views

Single-leaf, double-leaf and telescopic versions

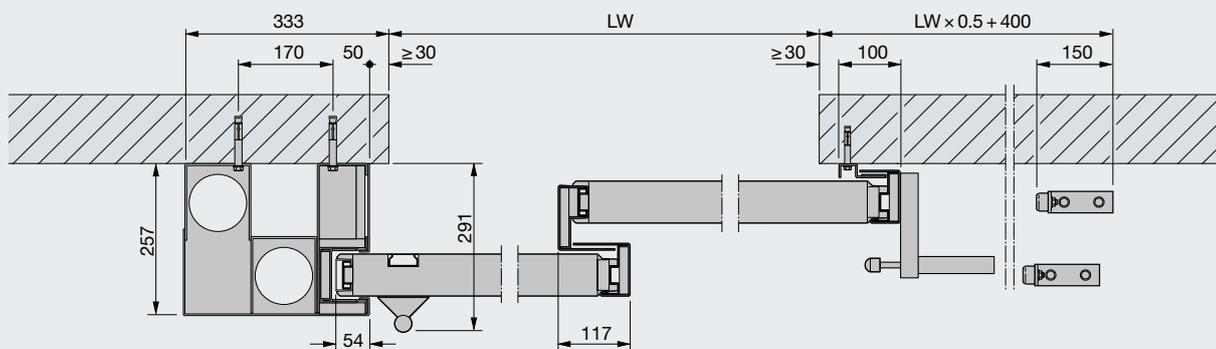
Single-leaf version



Double-leaf version



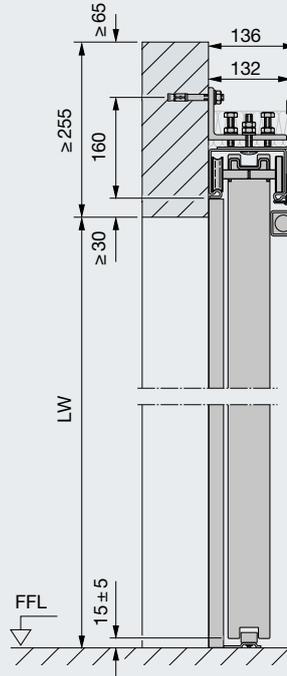
Double telescopic version



Vertical views

Single-leaf, double-leaf and telescopic versions

Single- and double-leaf version



Explanations

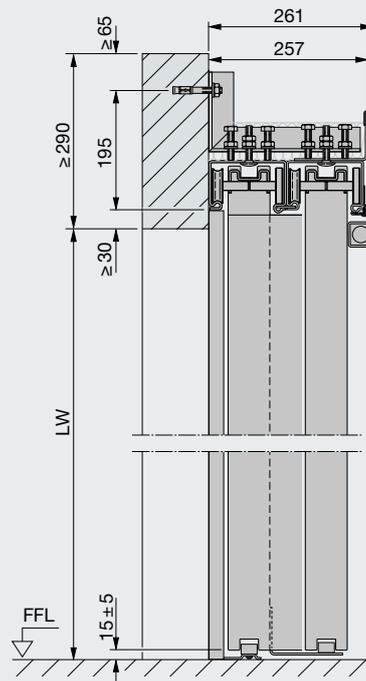
- LW Structural opening
- TLL Division left
- TLR Division right

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

Note

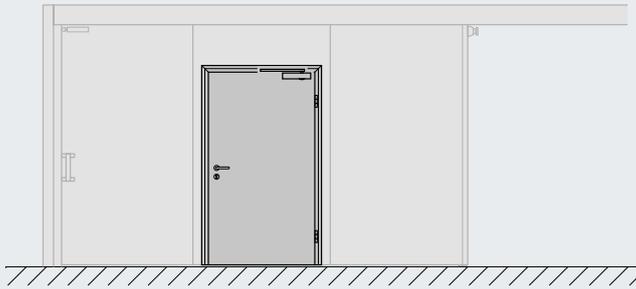
The construction tolerances to be complied with depend on the requirements provided in the official approval of the fire and smoke-tight sliding doors.

Double telescopic version

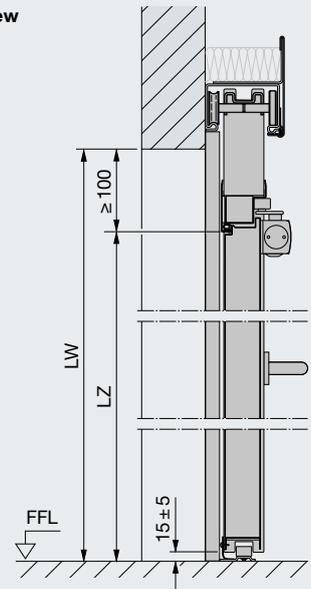


Sliding doors with wicket doors

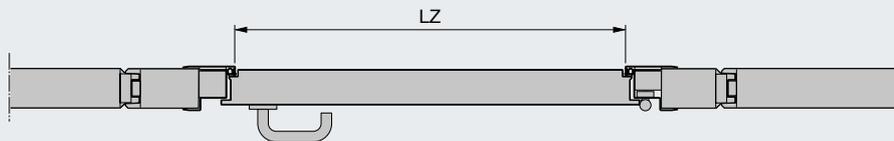
Door view



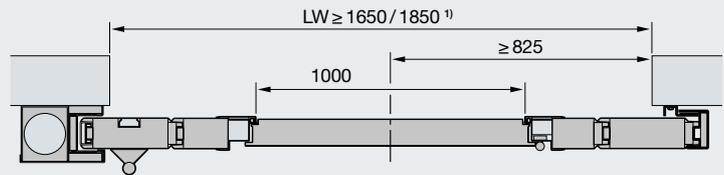
Vertical view



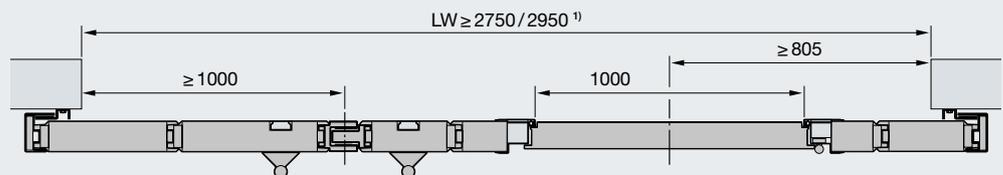
Horizontal view



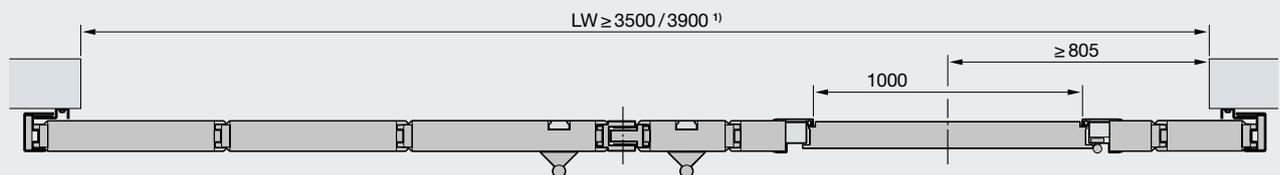
Single-leaf fire sliding door



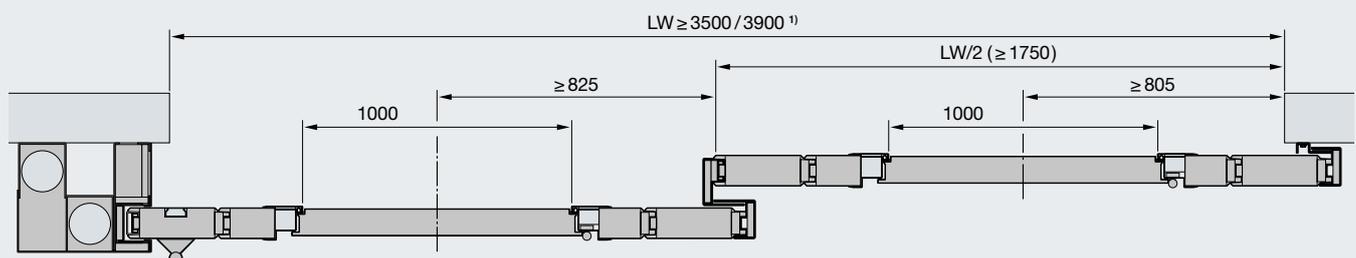
Double-leaf fire sliding door, asymmetrical division



Double-leaf fire sliding door, symmetrical division



Double telescopic door



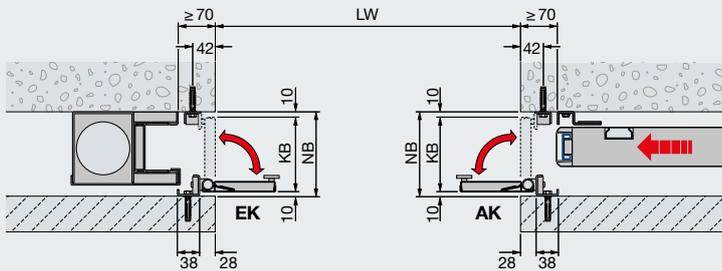
Handle part
T30/EI₂30, T90/EI₂90 available with wicket door

Wall piece
T30/EI₂30 available with wicket door

Recess and ceiling flaps

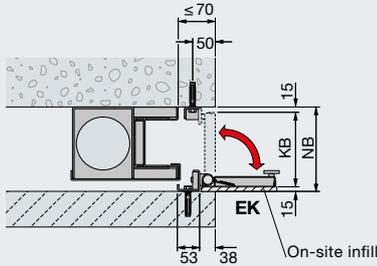
Recess flaps for the wall area

Horizontal view, single- and double-leaf sliding door



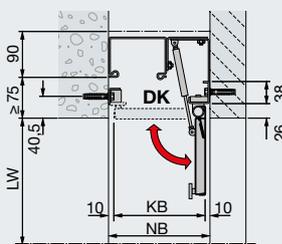
Recess flap for on-site infill

Horizontal view, single- and double-leaf sliding door



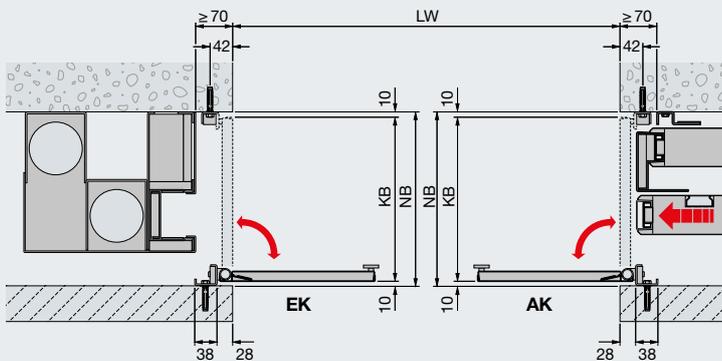
Ceiling flaps for the lintel area

Vertical view, single- and double-leaf sliding door



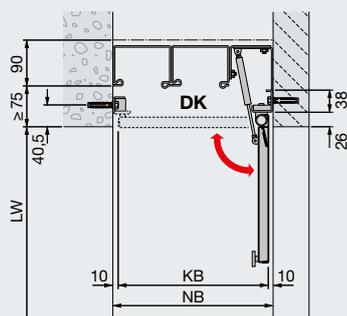
Recess flaps for the wall area

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 flap 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 a 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 and smoke-tight sliding doors.

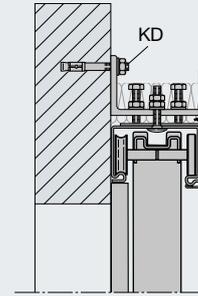
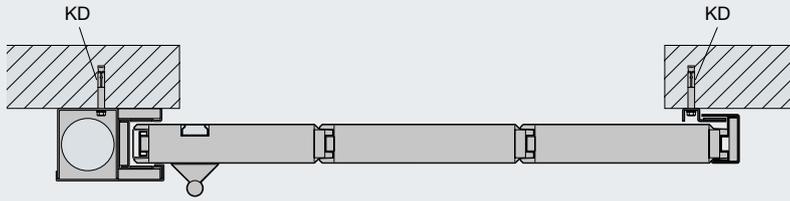
Cladded recess flaps

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

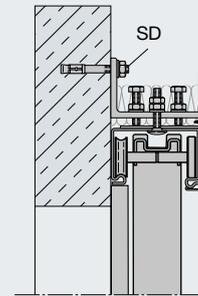
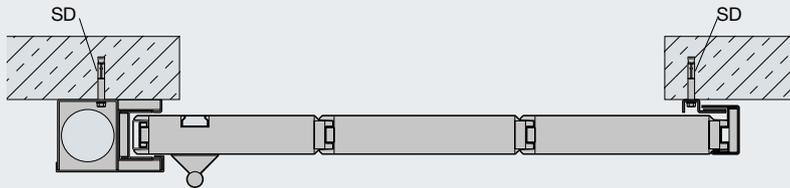
Space requirements and edge gaps deviate from the values for the standard flaps.

Fitting data

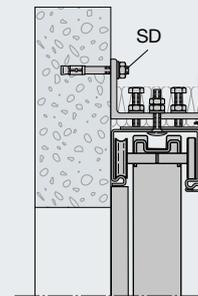
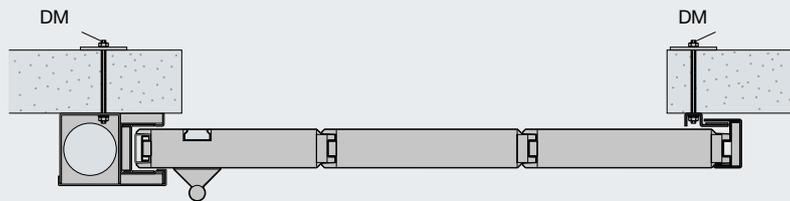
Brickwork walls



Concrete walls

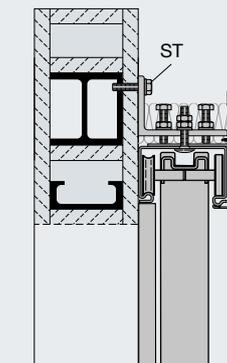
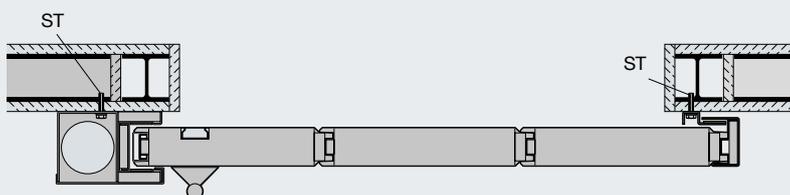


Gas concrete walls



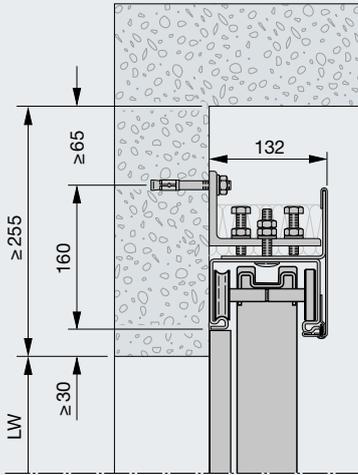
Only in combination with a steel concrete lintel according to the static proof.
The lintel must extend beyond the door opening area in line with the door track length.

Cladded steel components

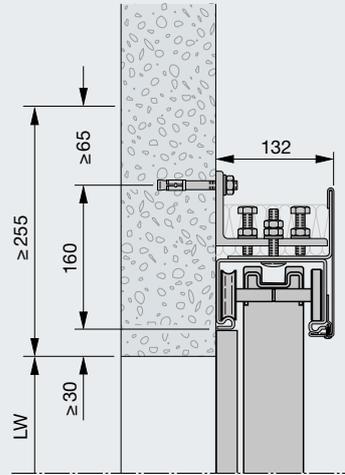


Clad steel supports and / or girders, minimum fire-resistance class F90,
short designation F 90-A according to DIN 4102-4

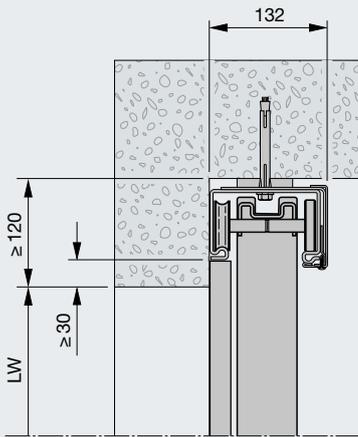
Wall fitting to the lintel



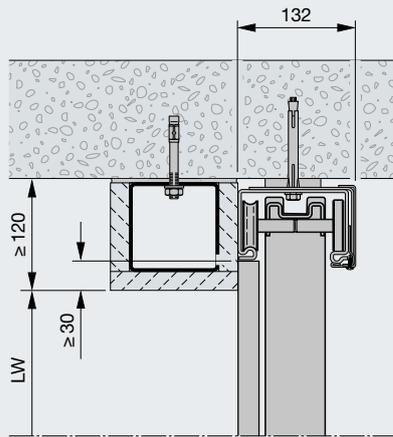
Fitting to the wall



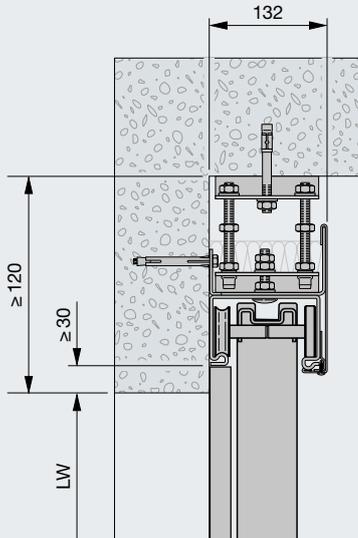
Direct fitting to the ceiling



Direct fitting to the ceiling with a false lintel



Ceiling suspension 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 plug 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, having general official approval, strength class 4.4: 200 mm

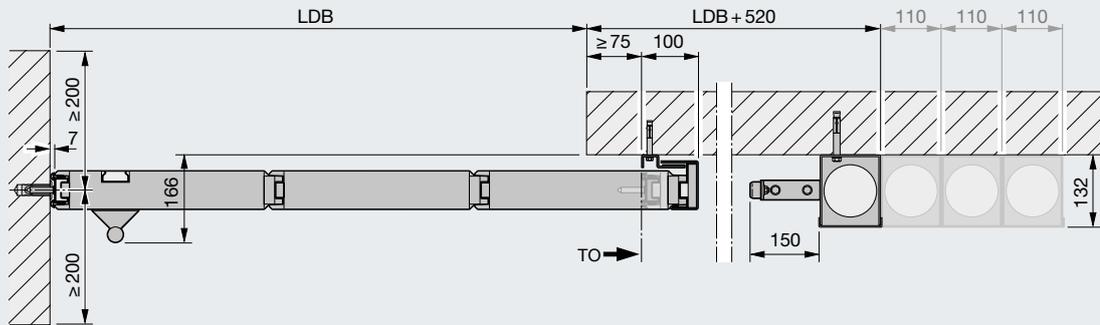
Note

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

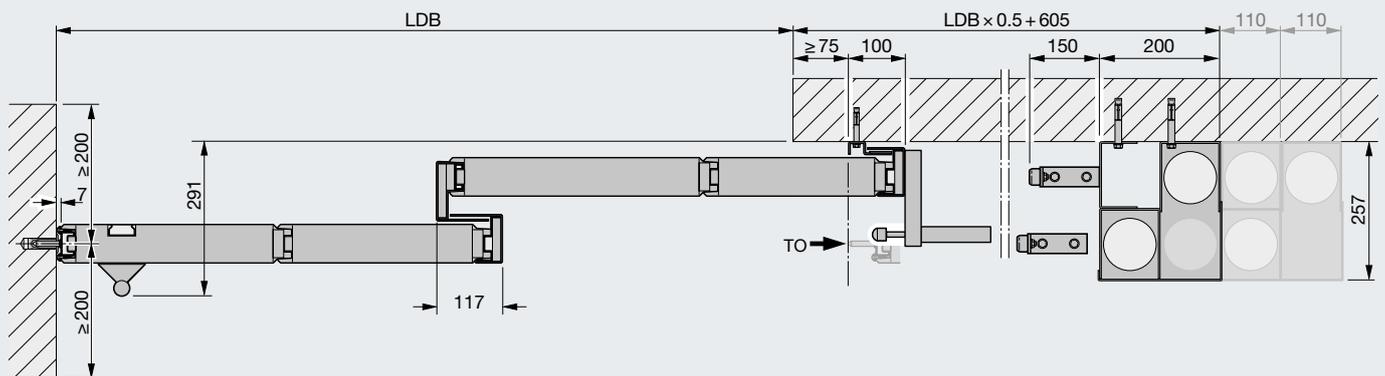
Flush-stopping sliding door

Without guiding profile

Flush-stopping single-leaf sliding door



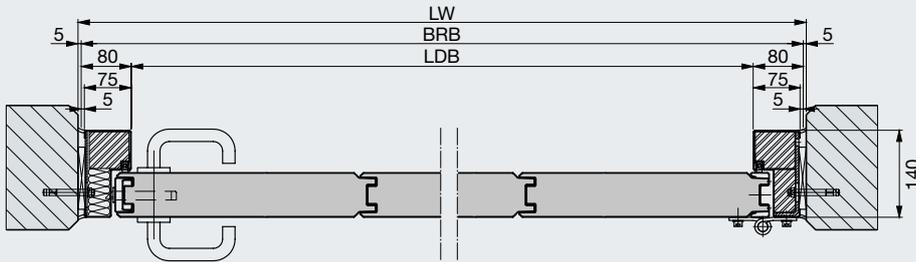
Flush-stopping telescopic sliding door



Technical data

Hinged garage doors DFT FST

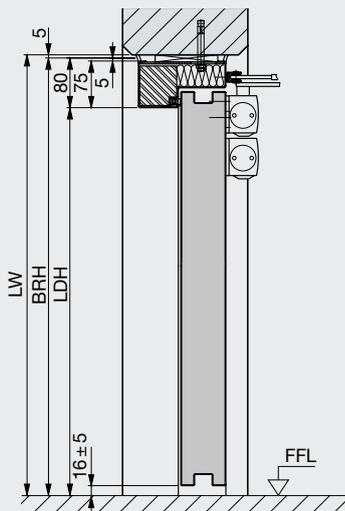
Horizontal view



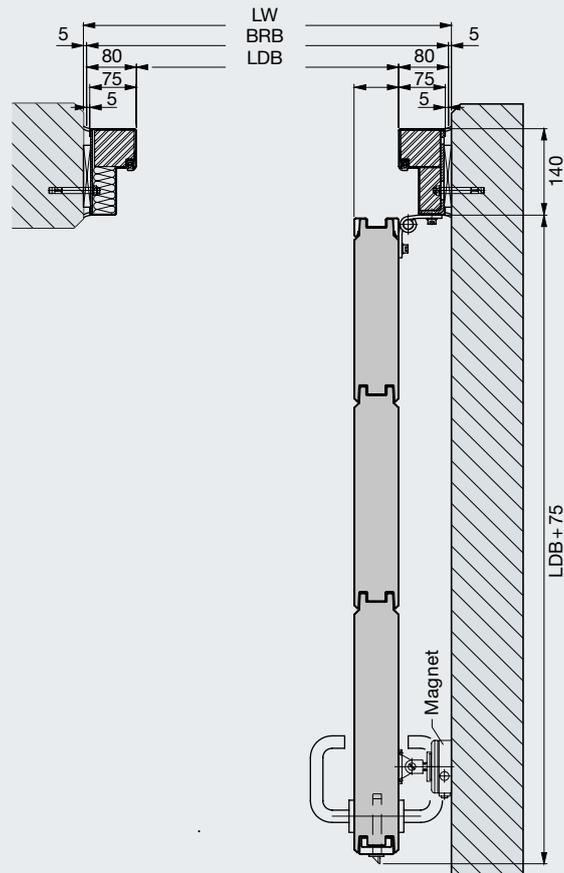
Explanations

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

Vertical view



90° open position



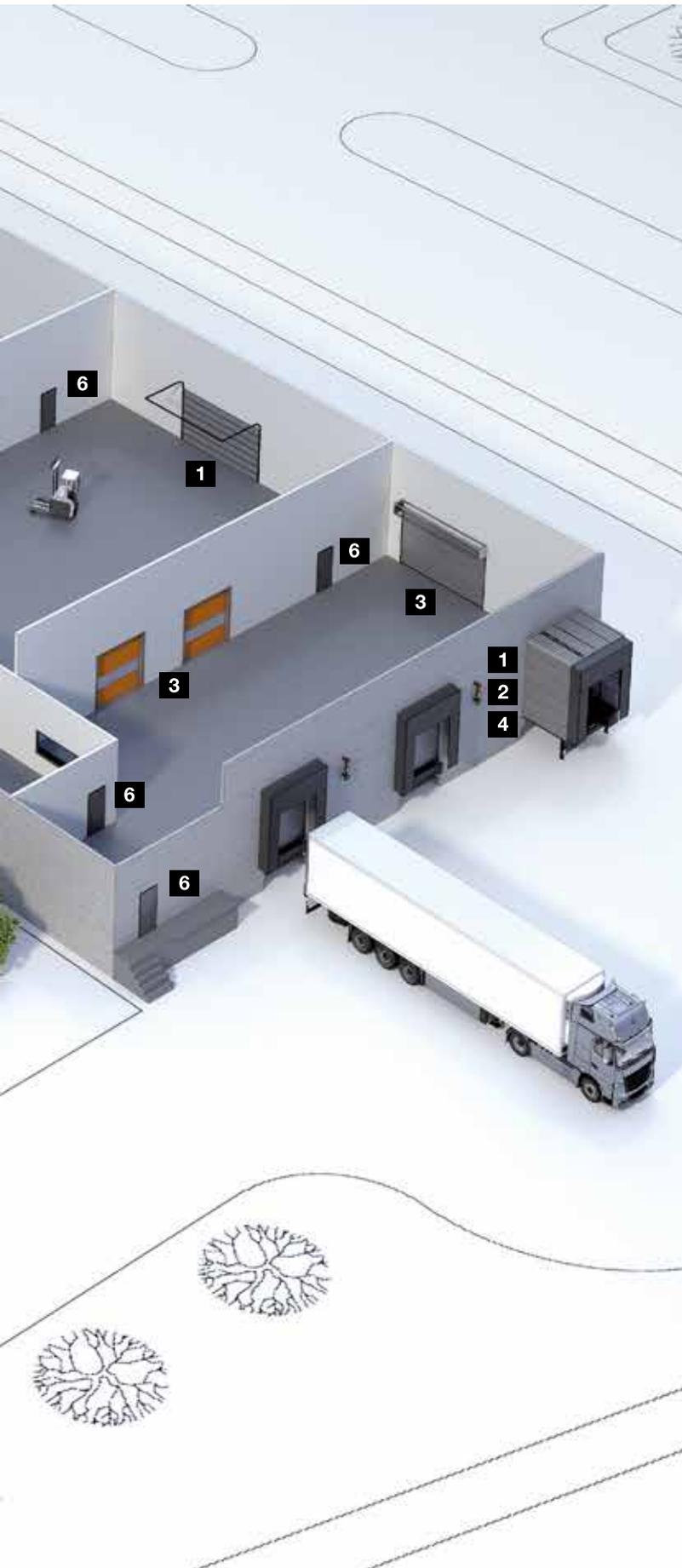
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Our extensive service network means that we are always nearby and at your service around the clock.



Sectional doors



Rolling shutters and rolling grilles



High-speed doors



Loading technology



Steel and stainless steel sliding doors



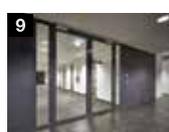
Steel and aluminium multi-function doors



Steel and stainless steel doors



Steel frames with high-quality timber function doors from Schörghuber



Fully glazed tubular frame parts



Automatic sliding doors



Visibility window



Collective garage doors

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Hörmann KG Eckelhausen, Germany



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Hörmann KG Ichttershausen, Germany



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GARAGE DOORS
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INDUSTRIAL DOORS
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HINGED DOORS
DOOR FRAMES