Fire and Smoke-Tight Sliding Doors
Multi-Purpose Sliding Doors
Steel and stainless steel single-leaf, double-leaf and telescopic versions
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Brand-name quality for top safety and reliability

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.
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.

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, along with the flush-fitting 100% matching appearance of the T30 /EI 30, T90 / EI 90 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 fire and smoke protection elements
Hörmann’s aluminium and steel fire-rated/smoke-tight doors and glazings will convince you with certified safety, perfect function and a 100% matching appearance. 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 is 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.

Find out more about Hörmann’s environmental activities in the We think green brochure.

* For more information please visit our Internet site at www.hoermann.com/documentation
Application examples
Fire and smoke-tight sliding doors and multi-purpose sliding doors
Application examples
Fire and smoke-tight sliding doors and multi-purpose sliding doors

Sliding doors are available in 7 preferred colours and all RAL colours. For further information, please see page 17.
The galvanized Pearlgrain surface is particularly suitable for use in warehouses. For further information, please see pages 13 and 17.

Using recess flaps, the sliding doors are inconspicuously integrated into public areas. For further information, please see page 19.
Good reasons to try Hörmann
High-quality versions for the project sector; functional solutions for the industrial sector

1 High-quality overall appearance

2 Precise door leaf guide

High-quality overall appearance with the patented groove/spring element connection
Hörmann sliding doors offer a modern 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.

Precise door leaf guide with patented track
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.
Resistant Pearlgrain version
For special requirements a sliding door, including wicket door, can be produced with the Pearlgrain surface. This surface is resistant to mechanical damage during operation and fitting. The galvanized version is especially suited for use in warehouses and areas with frequent traffic. The track panel, weight box and profile all have smooth design. The Pearlgrain surface is optionally available in a RAL colour of your choice.

Wicket doors without threshold rails provide more convenience and safety
Hörmann is the only manufacturer with licensed trip-free wicket doors for smoke-tight sliding doors. Opening the wicket door in both directions is possible, depending on the rescue route planning. It can be variably fitted to either open into the reveal or away from it. Furthermore, two wicket doors per door leaf are possible, opening in opposite directions, as well as glazing in the door set.
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 and stainless steel
   - Easy fitting with few screw fittings

3. Closing weights
   - Easy fitting and maintenance with screw-mountable weights

4. Guiding profile / centring device
   - Centring device for precise door guidance in the guiding profile

5. Guidance damper
   - Galvanized and stainless steel V2 A versions
   - Integrated into door leaf for single-leaf T30/ EI30 fire sliding doors **NEW**

6. Integrated 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. 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 recessed handles
   - High-quality stainless steel version as standard **NEW**

10. Concealed wicket door / door leaf monitoring **NEW**
    - Concealed cable routing in door leaf
    - Concealed magnetic contact in the wicket door
    - No possibility of operational damage
    - Spiral cable and socket at the end of the door leaf

Approved and certified in accordance with EN 12605 class C5 (long-term function tests with 200,000 door cycles)
Surface finishes and colours
Galvanized, colour-coated or stainless steel

Door leaf design
1. Fire protection material
2. Fully bonded
3. Galvanized sheet steel or stainless steel V2 A
4. Powder-primer coating or powder coating in RAL to choose (optional)
Surface finishes and colours
For the door leaf you have a choice of Pearlgrain or smooth steel sheet surfaces. The track and profiles are smooth in both variations.

The flush and fully bonded sliding doors are delivered galvanized as standard. Optionally, you can also choose these surfaces primed in Grey white, RAL 9002, 6 further preferred colours and in all other RAL colours. Through the fast-track programme, Hörmann delivers the preferred colours to the construction site within 15 working days.

Stainless steel version
For special visual or construction requirements, doors in stainless steel V2 A with a 240 K grain size are suitable.

All colours based on RAL.
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 with the push of a button in the case of fire or automatically in a power failure. The radial damper for regulating the required timer speed (5 – 12 cm/s) is integrated in the compensator carriage. The compensator is not available for doors with wicket doors.

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.
The closing weights close the door.
The opening aid is maintenance-free and optionally available with a key switch.

Lockable door leaf and wicket door
For single- and double-leaf fire sliding doors, you can optionally chose hook catch 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 und 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). Optionally, the wireless smoke detector (ORS 145) is available with visual smoke detection. The radio transmission decreases the time required for installing a new systems, because no cables need to be laid. Special versions can also be installed in cold store areas.

Recess and ceiling flaps
The solution for architecturally demanding areas, in which sliding doors must be inconspicuously integrated.

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 are 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.
Fire and smoke-tight sliding doors
Multi-purpose sliding doors
Single-leaf, double-leaf, telescopic versions

Numerous equipment options
- Smooth steel, galvanized
- Pearlgrain, galvanized
- RAL to choose
- Stainless steel
- Wicket door without threshold rail
- Glazing in wicket door / door set
- Lockable door leaf and wicket door
- Opening aid
- Ceiling/recess flap
- Compensator (cannot be combined with a wicket door)
### Multi-purpose NEW

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<th>Telescope</th>
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<td><strong>FST MZ--1-T2</strong></td>
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### T30/El,30 fire-retarding

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### T90/El,90 fire-proof

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### RS smoke-tight *

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<td><strong>FST 30-2-RS</strong></td>
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* With wicket door, max. 20 m²  ** Division left/right min. 1000 mm

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### Minimum door sizes with wicket door

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<tr>
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<th>With asymmetric division of leaves</th>
<th>With symmetric division of leaves</th>
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<tr>
<td>Width</td>
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<td><strong>Width</strong></td>
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<td><strong>Height</strong></td>
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### Wicket door

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<td><strong>Standard size</strong></td>
<td>1000</td>
<td>2000</td>
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<tr>
<td><strong>T30/El,30 fire-retarding</strong></td>
<td>625 – 1200*</td>
<td>1750 – 2000</td>
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<tr>
<td><strong>T90/El,90 fire-proof</strong></td>
<td>625 – 1050</td>
<td>1750 – 2000</td>
<td></td>
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<tr>
<td><strong>RS smoke-tight</strong></td>
<td>625 – 1000</td>
<td>1750 – 2000</td>
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* possible with case-by-case approval
Wicket door without threshold rail
Also approved for smoke-tight sliding doors
Design features
- Rebated door construction without threshold rail
- Optional: construction with 22 mm threshold rail (e.g. for exit ramps 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 mm × 815 mm, special size max. 500 × 1000 mm

Wicket door monitoring
- Concealed magnetic contact with concealed wiring (connection via connection box and spiral cable)
- Optional latch switching contact, electric strike

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, 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 / El,30: up to 1000 × 2000 mm (standard)
- T30 / El,30: up to 1200* × 2000 mm (according to the requirements of the high-rise policy HHRL M-V)
- T90 / El,90: up to 1000 × 2000 mm

* possible with case-by-case approval
Horizontal views
Single-leaf, double-leaf and telescopic versions

Single-leaf version

Double-leaf version

Telescopic version

Dimensions in mm
Vertical views
Single-leaf, double-leaf and telescopic versions

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.
Sliding doors with wicket doors

Horizontal view

Vertical view

Single-leaf fire sliding door

Double-leaf fire sliding door, asymmetrical division

Double-leaf fire sliding door, symmetrical division

Telescope door

Handle part
T30 / EI,30, T90 / EI,90 available with wicket door

Wall piece
T30 / EI,30 available with wicket door

Dimensions in mm
Recess and ceiling flaps

Recess flaps for the wall area
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.

**Abbreviations**

- **EK**: Inlet flap
- **AK**: Outlet flap
- **DK**: Ceiling flap
- **KB**: Flap width
- **NB**: Recess width

Dimensions in mm

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

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

Minimum wall thicknesses
Brickwork walls according to DIN 1053-1, 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 4165 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.
**Hörmann product range**

Everything from a single source for your construction project

1. **Sectional doors**
   These space-saving door systems can be adapted to different industrial facilities using various track applications. Hörmann offers you tailored solutions for every application.

2. **Rolling shutters and rolling grilles**
   Thanks to a simple construction with just a few components, rolling shutters are both economical and sturdy. Hörmann supplies rolling shutters in widths and heights of up to 11.75 m and 9 m respectively, or as special doors which are even larger.

3. **High-speed doors**
   Hörmann high-speed doors are used both inside and as exterior doors to optimise the flow of traffic, improve room conditions and save energy. The Hörmann programme includes vertically and horizontally opening transparent doors with flexible curtains.

4. **Loading technology**
   Hörmann offers you complete loading systems for the logistics sector. The advantages: reliable planning, dependable execution of construction work and high functionality thanks to precisely matched components.

5. **Fire sliding doors**
   Hörmann can provide you with single or double-leaf sliding door solutions suitable for all areas and required fire protection classes.

6. **Multi-function doors and reinforced internal doors**
   Hörmann multi-function doors and reinforced internal doors are suitable for indoor and outdoor use. Our single and double-leaf doors can be used wherever robust door elements are required. With numerous additional functions, such as fire and smoke protection, acoustic insulation or burglar protection.

7. **Box frame parts**
   For areas in which appearance is important, such as administrative buildings, Hörmann offers you fire and smoke protection doors as well as steel and aluminium fixed glazing and automatic sliding doors, also suited for special fire protection requirements.

8. **Visibility windows**
   Hörmann visibility glazings are used as windows or room-high elements to provide more light and better visibility.
Quick service with testing, maintenance and repairs

Our extensive service network means that we are always nearby and at your service around the clock.
Hörmann: Quality without Compromise

Hörmann is the only manufacturer worldwide that offers you a complete range of all major building products from one source. We manufacture in highly-specialised factories using the latest production technologies. The close-meshed network of sales and service companies throughout Europe, and activities in the USA and China, make Hörmann your strong partner for first-class building products, offering “Quality without Compromise”.

GARAGE DOORS
OPERATORS
INDUSTRIAL DOORS
LOADING EQUIPMENT
HINGED DOORS
DOOR FRAMES