Industrial Steel Sliding Doors

Exceptionally Robust and Extremely Efficient
Hörmann Manually Operated Steel Sliding Doors for Hall Openings up to 8 Metres Wide

Types of fitting
Sliding doors can be fitted externally or internally. But fitting the doors to an external wall as opposed to an internal wall has one distinct advantage: there is no loss of usable space on the inside wall of the building. Further benefits of sliding doors: minimum headroom is required and no additional load is placed on the roof.

Efficient in use
Hörmann steel sliding doors are designed for tough everyday operation and are therefore the ideal choice for builders’ yards, sports aircraft hangars, industrial facilities, vehicle depots, maintenance halls and agricultural buildings. The doors are built with very few individual components and wearing parts, are highly reliable and require virtually no maintenance.

Certified safety
Hörmann steel sliding doors are manufactured according to the Quality Management System EN ISO 9001 as well as to stringent safety requirements.

Despite the fact that many production processes today are computer-controlled, at Hörmann a highly qualified and responsible workforce still forms the basis for the high quality standard of its products - throughout production and in carrying out quality-assurance checks.

A wide range of different types and appearances
Hörmann steel sliding doors can be supplied single and double-skinned in an overall width up to 8000 mm, with solid sheet steel infill panels or with areas of glazing.

For double-skinned doors five different glazing shapes are available: rectangular, square, circular, triangular or rhomboid.

Single-skinned sliding doors are offered with sheet steel infills in a ribbed, smooth or raised panel design or, for example, fitted with ventilation louvers. Site-fitted timber boarding is also possible. Extremely practical is an integral wicket door or a matching side door to provide a separate access for pedestrian traffic.
Hörmann steel sliding doors are incredibly robust, impact-resistant and offer effective protection against corrosion. Because the doors incorporate very few wearing parts, they hardly ever need repairing and are straightforward to maintain.

Competent advice
Experienced specialists within our customer-oriented sales organization accompany you from the planning stage, through technical clarification up to the final building inspection. Complete working documentation is not only available in print but is also continually updated on the Internet at www.hoermann.com

Efficient service
Our extensive service network means that we are never far away. This is a major advantage in terms of inspections, maintenance and repairs.

It goes without saying that spare parts for doors, operators and controls are original Hörmann parts that come with a guaranteed availability of 10 years.

Safe transport and site protection thanks to special palletization.
The Double-skinned Sliding Door with U Sections

The double-skinned door leaf is highly rigid
The high stability of the 42 mm thick door leaf is achieved by the strong insulating core made of 100% CFC-free polyurethane rigid foam to which the steel outer skins (125 mm distance between ribs) are evenly bonded.

Material/surface
The hot galvanized material and the adhering polyester primer coating offer optimum protection against the adverse effects of the environment. The stucco embossing on both sides of the door leaf makes the surface resistant to scratches. Colour: door leaf, track and rain canopy in grey-white (similar to RAL 9002). RAL to choice on request.

Designed for manual operation and a smooth, safe door action
The high-grade tubular track section comprises a galvanized steel track, two pairs of twin rollers on ball bearings, end stops and track supports which are anchored to the lintel. At the bottom the door is reliably guided on both sides via plastic rollers (as shown on bottom left). On the outside the door features a surface-mounted handle, on the inside a recessed handle.
The standard closing device (see below) and the shoot bolt (available on request) are prepared for a site padlock.
Robust and Good Value
Particularly Suitable for Buildings in Agriculture

**Door versions (examples)**

On request with compound windows type A. Window size 635 x 245 mm
Black plastic frame with 33 mm clear perspex double panes.

**Specifications:**

- **Floor buffer stops**
  - Minimum width 500 mm
  - Maximum width 5000 mm

- **FFL**
  - Minimum height 500 mm
  - Maximum height 5000 mm

**Size range**

- **Single-leaf doors:**
  - Width up to 5000 mm
  - Height up to 5000 mm

- **Double-leaf doors:**
  - Width up to 7000 mm
  - Height up to 5000 mm

**Types of fitting**

- Externally in front of the external wall
- Internally (internal or external wall)

**Headroom**

- For internal fitting:
  - 235-260 mm without rain canopy
- For external fitting:
  - At least 300 mm, with rain canopy as standard feature

**Wind pressure EN 12424**

- Class 2

**Behaviour in fire DIN 4102**

- Door leaf building materials class B2
  (normal flammability)

**Own weight of door leaf**

- 14 kg/m²

The door is fitted internally or externally at a distance of 35 mm to the wall without sealing and overlaps the structural opening on 3 sides by 50 mm.
The Double-skinned Doors with Two Types of Insulation

**KSP door type:**
*With PUR rigid foam core, thermally insulating*
The outer skins are bonded together with the 100% CFC-free rigid foam core, so there is no risk of delamination. This material composite produces an extremely rigid component offering a high resistance to distortion and outstanding durability. The insulating core also gives the door leaf good thermal insulation properties.

**Material/surface**
The hot galvanized material and adhering primer coating (2-component PUR) protect the door against the adverse effects of the environment. As standard with stucco-embossed surface on both sides, on request with smooth finish both sides. Colour: inside and outside in grey-white (similar to RAL 9002).

**KSM door type:**
*wth mineral wool insulation to reduce noise levels*
The welded shell construction of 1.5 mm thick sheet steel, the inner reinforcement and the mineral wool insulation make the flush-fitting door leaves highly robust. With a door leaf weight of 35 kg/m² this heavy door version is not only a tough contender but also helps to reduce noise levels.

**Material/surface**
Hot galvanized material with adhering primer coating (2-component PUR) as the optimum protection against the adverse effects of the environment. With smooth surface on both sides. Inside and outside in grey-white (similar to RAL 9002). RAL to choice on request.
With Attractive Windows as Light-transmitting Design Elements

**Door versions (examples)**

- **Door version with wicket door**
- **Door version with triangular glazing**
- **Door version with rectangular glazing**
- **Door version with square glazing**
- **Door version with rhomboid glazing**
- **Door version with circular glazing Ø 500 mm**
- **Door version with wicket door**
- **Door version with rectangular glazing**
- **Door version with square glazing**
- **Door version with rhomboid glazing**
- **Door version with wicket door**
- **Door version with rectangular glazing**
- **Door version with square glazing**
- **Door version with rhomboid glazing**

**Size range**

- Single and double-leaf doors
  - Width up to 7000 mm
  - Height up to 5000 mm

**Types of fitting**

- Externally in front of the external wall
- Internally (internal or external wall)

**Headroom**

- Depending on door size 260-380 mm

**Wind pressure EN 12424**

- Class 2

**Behaviour in fire DIN 4102**

- KSP door leaf: building materials class B2 (normal flammability)
- KSM door leaf: building materials class A2 (non-flammable)

**Own weight of door leaf**

- KSP: 25 kg/m²
- KSM: 35 kg/m²

**Ventilation:**

- All door versions on request with ventilation slots or sliding covers.

**Specifications:** www.hoermann.com

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The KSM door type is also available with maximum glazing.
The Single-skinned Sliding Door
Outstanding Stability and No Distortion

The inexpensive solution
for unheated buildings
Hörmann single-skinned steel sliding
doors present a sound economic
investment when robustness is the
priority and heating is not a factor. As
is the case, for example, in utility sheds,
vehicle depots, factory yards and at
beverage wholesalers.

Material/surface
The doors in a galvanized material with
a high-grade powder coating are well
protected against the adverse effects
of the environment. Surface inside
and outside: traffic white (similar to
RAL 9016).
RAL to choice on request.

Sturdily built for a long service life
The sliding door leaf consists of vertically
arranged, welded tubular frame elements
which are additionally reinforced by
horizontal rails. This affords the entire
door leaf a high degree of stability and
resistance to distortion. The integral
profile rebate to all four sides ensures
secure retention of the various infills.
Overall thickness 55 mm, profile view
70 mm.

Choose the infill to characterize the
appearance of your door
On the right you can get an idea of what
your sliding door could look like. Further
infills and arrangements are possible over
and above the examples shown here.
With Numerous Infill Options
We Accommodate Your Requirements

Door versions (examples)

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Description</th>
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<tbody>
<tr>
<td><img src="image1.png" alt="Diagram 1" /></td>
<td>Ribbed sheet steel infill with wicket door</td>
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<td><img src="image2.png" alt="Diagram 2" /></td>
<td>Ribbed sheet steel infill with rectangular partial glazing</td>
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<td><img src="image3.png" alt="Diagram 3" /></td>
<td>Raised panel sheet steel infill Sheet thickness 1.5 mm</td>
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<td><img src="image4.png" alt="Diagram 4" /></td>
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<td><img src="image5.png" alt="Diagram 5" /></td>
<td>Prepared for site infill (max. 16 kg/m²) resting within the frame</td>
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<tr>
<td><img src="image6.png" alt="Diagram 6" /></td>
<td>Frame in terra brown (RAL 8028)</td>
</tr>
</tbody>
</table>

Size range

- Single and double-leaf doors
- Width: up to 7000 mm
- Height: up to 5500 mm
- Height: up to 6000 mm (with ribbed sheet steel infill)

Types of fitting

- Externally in front of the external wall
- Internally (internal or external wall)

Headroom

- Depending on door size 260 - 380 mm

Wind pressure EN 12424

- Class 2

Behaviour in fire DIN 4102

- Door leaf building materials class A2 (non-flammable)

Own weight of door leaf

- 25 kg/m² (door leaf with ribbed sheet steel infill)

Ventilation:

Door versions on request with ventilation slots, with double-skinned bottom section with sliding covers.

Specifications: [www.hoermann.com](http://www.hoermann.com)

Good value for unheated buildings

www.samsondoors.co.uk
(0800) 328 6250
For KSP and KSM

Rectangular glazing

For KSP and KSM
Plastic or metal glazing frame, graphite black (based on RAL 9011) with EPDM seal on both sides.
Fastened with screws from the inside to resist intruders.
Window size depends on leaf width:
Standard sizes
473/523/573 x 773 mm (W x H)
Special sizes
Width depends on leaf width
Max. height up to 1250 mm

Distance between pane and edge of leaf/height between rows of windows for KSP and KSM:
Distance between pane and edge of leaf at sides at least 180 mm,
Height between rows of windows:
KSP = 208 mm
KSP = 108 mm

In choosing the pane types, you determine whether you want more light or less, good visual contact and increased security.

Square glazing

for KSP and KSM
Glazing frame as for rectangular window.
Window size depending on leaf width from approx. 350 x 350 mm to 850 x 850 mm.

Circular glazing

For KSP and KSM
Retained within an EPDM clamping profile, graphite black (based on RAL 9011) or paintable aluminium ring, Ø 500 mm:
with 6 mm clear perspex panes or with 18 mm clear perspex double panes.
Site glazing (provided by the customer) is not possible.

On-site glazing (provided by the customer)
On request also prepared for on-site glazing: KSP and KSM types pane up to 18 mm thick, KSE type pane up to 20 mm thick.
Depending on the requirement profile or your individual needs, Hörmann steel sliding doors can be equipped with the glazing types shown.

### Rhomboid glazing
**for KSP and KSM**
Plastic or metal glazing frame, graphite black (based on RAL 9011) with EPDM seal on both sides.
Fastened with screws from the inside to resist intruders.
Window size depending on leaf width from approx. 300 x 300 mm to 650 x 650 mm.

### Triangular glazing
**for KSP and KSM**
Retained within an EPDM clamping profile, graphite black (based on RAL 9011).
Standard size (window size):
- 350 x 600 mm vertical
- 600 x 350 mm horizontal
Special size (window size):
- 625 x 1250 mm vertical
- 850 x 625 mm horizontal

### Prepared for glazing
**for KSE**
Panes retained by:
- aluminium glazing bars, paintable, with rebate for putty (view 17 mm) for single panes thick or in aluminium frame, paintable, for double panes up to 20 mm thick.
- Height of the individual apertures for glazing max. 1250 mm.
- Width of the glazing depends on the leaf width. Height between rows of windows:
  - Single pane: 79 mm thick, double pane: 127 mm thick.

Panels depending on the requirement profile or your individual needs, Hörmann steel sliding doors can be equipped with the glazing types shown.
KSP/KSM double-skinned door types
The insulating core of the double-skinned structural components and the continuous dovetail profile, via which the door leaves are interconnected, afford these door constructions a high degree of stability and resistance to distortion.

Overall thickness 55 mm, flush-fitting

Hörmann Steel Sliding Doors

Top door guidance
The top track section ensures a safe, smooth door action at all times. It comprises a track, two pairs of twin rollers on ball bearings, end stops and track supports which are anchored to the lintel.

Lintel attachment
The door assembly is attached to the lintel via a U-shaped profile extending across the entire width.

Wall attachment on the opening side
The door assembly is attached to the wall on the opening side via an angular profile spanning the entire door height.

Firmly anchored to the building structure
The door is firmly anchored via sturdy connecting profiles on all three sides. The profiles can be plugged into masonry or welded onto steel.
Solidly Built for Safe, Reliable Operation

KSE single-skinned door type
The door leaf comprises elements of continually welded rectangular hollow sections with integral rebate which afford it a high degree of stability and resistance to distortion.

Rectangular hollow section 70 x 55 mm

Wall attachment on the closing side
On the closing side the door runs into a U-shaped profile (on the KSE door type the leaf rebate closes against a rectangular hollow section). On the opposite side the door is equipped with a surface-mounted floor bolt to hold the door securely in place.

Hooked mortise lock
On the closing side: Hooked mortise lock with lever/knob function, prepared for profile cylinder, backset 65 mm (KSP/KSM types), backset 40 mm (KSE type).
Profile cylinder flush on the outside, can be fitted at the factory or on site.
Cylinder length: 35.5 + 35.5 (71) mm

Lever handle on the wall side
Aluminium flat-style lever handle stained in natural colour (E6/EV1) and fitted black plastic recessed handle.

Lever handle on the fitted side
Aluminium half lever handle stained in natural colour (E6/EV1) and surface-mounted black plastic handle.

The bottom row of illustrations shows the technical details of the double-skinned door type.
## Overview of Door Types

### Technical Details

**Design and quality features**  
* ● = standard, ○ = on request

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<th>KSM</th>
<th>KSE</th>
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<td><strong>Distance back</strong></td>
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<td>Opening width+100 mm (LSP+270 mm)</td>
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<td><strong>Headroom</strong></td>
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<td>see Technical Manual; min., mm</td>
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<tr>
<td><strong>Number of door leaves</strong></td>
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<td><strong>Door opening</strong></td>
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<td>to left, to right, both sides</td>
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<td><strong>Frame profile</strong></td>
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<td>60 x 60 mm and U-frame as run-in</td>
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<td><strong>Overall thickness</strong></td>
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<td>mm</td>
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<td><strong>Type of fitting</strong></td>
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<td>Sideroom on the wall(see Technical Manual)</td>
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<td>Fitted in the opening (see Technical Manual)</td>
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<td>EN 12424</td>
<td>Class 2</td>
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<td>DIN 4102</td>
<td>Building materials class A2 (non-flammable)</td>
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<td>Wet-coated with a 2-component PUR primer</td>
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<td><strong>Own weight of door leaf</strong></td>
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<td>kg/m²</td>
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<td><strong>Wicket door</strong></td>
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<td>Perspex panes / single / insulated</td>
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<td>Sliding cover on the inside</td>
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<td>Aluminium glazing bars / Aluminium glazing frame</td>
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<td>Square</td>
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<td>Rhomboid</td>
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<td>Triangular</td>
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<td>Concrete, steel, masonry</td>
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</tbody>
</table>
Hörmann can provide you with single or double-leaf sliding door solutions suitable for all areas and required fire protection classes.