Steel Fire-rated Doors and Multi-purpose Doors
A reliable partner for your safety
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Steel fire-rated door and multi-purpose door
A whole range of high-quality doors to meet your needs
Take advantage of our achievements gained through more than 50 years of experience. By using Hörmann fire resistant doors, you are guaranteed decades of quality, protection and safety. All Hörmann fire resistant doors meet Chinese Standards and are designed, produced, and serviced strictly adhering to ISO 9001 requirements. Install Hörmann steel fire-rated doors with complete confidence on safety.

In addition Hörmann doors offer an exquisite appearance. This is particularly important where it is necessary to fit doors with varying dimensions on the same floor of a building. Offering both aesthetics and optimum fire protection allows Hörmann to satisfy the needs of architects, developers, and authorities alike. Thus, Hörmann steel fire-rated doors are often the standard in the fire areas of industrial and public buildings, apartment compounds, hospitals and airports.

Hörmann steel multi-purpose doors are a hallmark for high reliability and long-term value in a wide range of internal and external applications. These construction elements offer long-term functional reliability from our usage of high quality materials and precision manufacturing. As steel doors, they can be used in all those areas where robust door solutions are required: in non-fire areas of industrial buildings, commercial enterprises, public buildings and agricultural sectors. Regardless of the scale of the construction project Hörmann is able to provide an individual solution to satisfy all your needs.

Steel fire-rated doors certified in accordance with Chinese Standard GB12955-2008, and gain the CCC authentication at first batch

According to the implementation rules of China’s “Mandatory Products Authentication for Fireproof Products”, all fire-rated doors produced and sold after September 1, 2015 must obtain CCC certification.

Hörmann Beijing Door Production Co., Ltd. is among the first steel fire-rated door manufacturers in China, having met or exceeded all relevant tests and inspections.

Once again Hörmann take the lead in quality and technology.

Hörmann steel multi-purpose doors are a hallmark for high reliability and long-term value in a wide range of internal and external applications. These construction elements offer long-term functional reliability from our usage of high quality materials and precision manufacturing. As steel doors, they can be used in all those areas where robust door solutions are required: in non-fire areas of industrial buildings, commercial enterprises, public buildings and agricultural sectors. Regardless of the scale of the construction project Hörmann is able to provide an individual solution to satisfy all your needs.
Steel fire-rated door HC 90 CCC
Fire and heat insulation time 90 minutes

Hörmann steel fire-rated doors are infilled with fireproof board providing better fire and heat insulation performance. The fireproof expansion strip at three sides of the door leaf effectively block the spread of smoke. Door leaf can be fitted with fireproof glazing and anti-panic functions when required, and is widely used in the fire areas of construction zones.
## Steel fire-rated door

### Class A

### Standard Fittings

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire and heat insulation time in hours</td>
<td>1.5</td>
</tr>
<tr>
<td>Leaf thickness</td>
<td>70 mm</td>
</tr>
<tr>
<td>Leaf steel thickness</td>
<td>0.8/1.0* mm</td>
</tr>
<tr>
<td>Frame steel thickness</td>
<td>1.5/2.0* mm</td>
</tr>
<tr>
<td>Frame thickness</td>
<td>114/150* mm</td>
</tr>
<tr>
<td>Infill</td>
<td>Fireproof board</td>
</tr>
<tr>
<td>Lock</td>
<td>Fireproof lock</td>
</tr>
<tr>
<td>Handle set</td>
<td>Satin stainless steel D-110</td>
</tr>
<tr>
<td>Hinge</td>
<td>3D-160 adjustable</td>
</tr>
</tbody>
</table>

### Locking bolts

<table>
<thead>
<tr>
<th>Door Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-leaf door</td>
<td>2</td>
</tr>
<tr>
<td>Double-leaf door</td>
<td>4</td>
</tr>
</tbody>
</table>

### Glazing

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fireproof glazing thickness</td>
<td>35 mm</td>
</tr>
<tr>
<td>Max. area</td>
<td>15% of the door area</td>
</tr>
<tr>
<td>Max. width</td>
<td>≤ 280 mm</td>
</tr>
<tr>
<td>Max. height</td>
<td>≤ 1000 mm</td>
</tr>
</tbody>
</table>

### Door size

<table>
<thead>
<tr>
<th>Door Type</th>
<th>W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-leaf</td>
<td></td>
</tr>
<tr>
<td>Double-leaf</td>
<td></td>
</tr>
</tbody>
</table>

### Ordering width (min. - max.)

- Single-leaf: 600 – 1200 mm
- Double-leaf: 1000 – 2500 mm

### Ordering height (min. - max.)

- Single-leaf: 900 – 2500 mm
- Double-leaf: 1000 – 3000 mm

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*If the structural opening of single leaf door > 1000 x 2300 mm, if the structural opening of double leaf door > 2100 x 2300 mm.

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**Threshold:**

Two versions of thresholds can be delivered on request. Furthermore, threshold improves sound insulation. And the values of sound and thermal insulation are tested when the door fitted with threshold with seal.
Steel fire-rated door HCA 60 / HCA 30

Fire and heat insulation time 60 / 30 minutes

Fireproof expansion strip  Frame heat seal  Fireproof board
Flush door leaf
Door leaf thickness
50mm

High fire-retardant
Class B

High fire-retardant
Class C

Sound insulation
33 dB

Steel fire-rated door
Class B
Class C

<table>
<thead>
<tr>
<th>Standard Fittings</th>
<th>Class B</th>
<th>Class C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire-insulation time in hours</td>
<td>1</td>
<td>0.5</td>
</tr>
<tr>
<td>Leaf thickness</td>
<td>50 mm</td>
<td>50 mm</td>
</tr>
<tr>
<td>Leaf steel thickness</td>
<td>0.8 mm</td>
<td>0.8 mm</td>
</tr>
<tr>
<td>Frame steel thickness</td>
<td>1.5 mm</td>
<td>1.5 mm</td>
</tr>
<tr>
<td>Frame thickness</td>
<td>114 mm</td>
<td>100 mm</td>
</tr>
<tr>
<td>Infill</td>
<td>Fireproof board</td>
<td>Fireproof board</td>
</tr>
<tr>
<td>Lock</td>
<td>Fireproof lock</td>
<td>Fireproof lock</td>
</tr>
<tr>
<td>Handle set</td>
<td>Satin stainless steel D-110</td>
<td>Satin stainless steel D-110</td>
</tr>
<tr>
<td>Hinge</td>
<td>Heavy duty hinge</td>
<td>Heavy duty hinge</td>
</tr>
</tbody>
</table>

Locking bolts
Single-leaf door
2
Double-leaf door
4

Glazing
Fireproof glazing thickness
28 mm
Max. area
15% of the door area
Max. width
≤ 280 mm
Max. height
≤ 1000 mm

Door size
Single-leaf
Double-leaf
Single-leaf
Double-leaf
Ordering width (min. - max.)
700 – 1000 mm
1000 – 2100 mm
600 – 1000 mm
1000 – 2100 mm
Ordering height (min. - max.)
900 – 2300 mm
1000 – 2300 mm
1000 – 2300 mm
2000 – 2300 mm

Thermal Insulation Value 1.9-2.4 W/(m²·K)

Threshold:
Two versions of thresholds can be delivered on request. Furthermore, threshold improves sound insulation. And the values of sound and thermal insulation are tested when the door fitted with threshold with seal.
Hörmann steel multi-purpose doors are sturdy and durable while also providing better thermal and sound insulation performance. Door leaf can be fitted with not only various glazing and louver, but also special hardware and cut-outs on request, providing better solution for doors as needed.
Flush door leaf
Door leaf thickness
50mm

Sound insulation
33 dB

Steel multi-purpose door
HMS

Standard Fittings

- Leaf thickness: 50 mm
- Leaf steel thickness: 0.8 mm
- Frame steel thickness: 1.5 mm
- Frame thickness: 114 mm
- Infill: Mineral wool
- Lock: Fireproof lock
- Handle set: Black nylon D-110
- Hinge: Heavy duty hinge

Locking bolts

- Single-leaf door: 2
- Double-leaf door: 4

Door size

<table>
<thead>
<tr>
<th></th>
<th>W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-leaf door (min.)</td>
<td>600 x 1000 mm</td>
</tr>
<tr>
<td>Single-leaf door (max.)</td>
<td>1500 x 3000 mm</td>
</tr>
<tr>
<td>Double-leaf door (min.)</td>
<td>1000 x 1000 mm</td>
</tr>
<tr>
<td>Double-leaf door (max.)</td>
<td>3000 x 3000 mm</td>
</tr>
</tbody>
</table>

Threshold:

Three versions of thresholds can be delivered on request. Furthermore, threshold improves sound insulation. And the values of sound and thermal insulation are tested when the door fitted with threshold with seal.

- Retractable bottom seal
- Threshold flat
- Threshold with seal

Thermal Insulation Value 1.9 W/(m²·K)
Surface
Various colours to suit all tastes
**Powder coating surface**
The smooth appearance of coating provided by the advanced powder coating line gives the steel doors a superb appearance. We offer a wide spectrum of colors to suit all tastes.

Standard colour RAL 9002

**Decograin surface**
Our top quality Decograin film is perfectly attached to the galvanized steel sheet of door leaf through an advanced heat pressed procedure. The foil-coated timber designs boast a natural-looking appearance, but also are of UV resistant, highly durable and easy to maintain.

![Decograin Surface Samples]

Granada Maple  Kings Oak  Malaga Cherry
Golden Oak  Hungary Ash Cognac  Wallis Plum Natural
Meran Apple  Mahogany  Dark Mahogany
Dark Sandalwood  Horizontal Gray Oak  Horizontal Dark Oak

Colours and surface finishes illustrated above are subject to the limitations of the printing process.
Glazing and top element
Unlimited choices, unlimited possibilities
Glazing for steel fire-rated doors

Fig. 1  Fig. 2  Fig. 3  Round glazing  Glazing to choose

Glazing for steel multi-purpose doors

Fig. 1  Fig. 4  Fig. 5  Fig. 6  Round glazing

<table>
<thead>
<tr>
<th>Height of door ≤ 2100 mm</th>
<th>Height of door &gt; 2100 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>a = 200 mm</td>
<td>= H - 1900 mm</td>
</tr>
<tr>
<td>b ≥ 200 mm</td>
<td>≥ 200 mm</td>
</tr>
<tr>
<td>c ≥ 400 mm</td>
<td>≥ 400 mm</td>
</tr>
</tbody>
</table>

Round Glazing Diameter Ø = 300 mm

Top light / panel / louver for steel multi-purpose doors *

Steel louver for steel multi-purpose doors

Please note critical dimensions below when ordering.

a ≥ 150 mm
b ≥ 150 mm
c ≥ 200 mm

* Mullion will be applied if the structural opening width ≥ 2500 mm or the area of top light /top louver ≥ 2 m².
Stainless steel handle
(D-110, D-310, D-410)
Stainless steel handle sets have the same design as the plastic and aluminium handle sets.

Aluminium handle*
(D-110, D-310, D-410)
All aluminium handle sets are anodised in a natural finish.

Nylon handle*
(D-110)
Nylon handle sets can be supplied in black, red, or white.

Emergency exit locks and bars
Regardless of whether single- or double-leaf doors are involved, a variety of emergency exit locks and bars are available, ensuring the safety of emergency exits.

Door closer with arm
For fitting to flush and rebated door leaves with hold-open device**, fitted at opposite hinge side.

Door closer with sliding rail
For fitting to flush and rebated door leaves with hold-open device**, fitted at opposite hinge side.

Concealed door closer*
For fitting to flush door leaves with hold-open device**.

* Not available for steel fire-rated doors.
** In accordance with fire regulations, steel fire-rated doors can not fitted with door closer with hold-open function.
**Electric strike**
Electric strike is fitted into the strike plate to realize the access control function. It can be easily controlled by push button, card or keypad.

**Cable transfer**
Cable transfer can be chosen when the door is fitted with electric hardware. It is installed between door leaf and frame to protect the cable.

**Door selector for double-leaf doors**
Door selectors are installed for double-leaf doors to ensure that the two door leaves are closing in the right sequence.

**Magnetic door stopper**

**Door stopper**

**Electric door opener**
High-quality, imported from Germany, Door opens and closes smoothly with push button or key card.

**Master key system**
In a master key system, the main key opens all the locks in the system although each lock has its own unique key. The size of the master key system can be supplied on request.
Frame types and fitting situations

Frame versions

<table>
<thead>
<tr>
<th>Frame Type</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC 90 CCC</td>
<td>73 x 30 x 1.14 m</td>
</tr>
<tr>
<td>HCA 60</td>
<td>55 x 40 x 1.14 m</td>
</tr>
<tr>
<td>HCA 30</td>
<td>55 x 40 x 1.30 m</td>
</tr>
<tr>
<td>HMS</td>
<td>55 x 40 x 0.90 m</td>
</tr>
</tbody>
</table>

* If the structural opening of single leaf door > 1000 x 2300 mm, if the structural opening of double leaf door > 2100 x 2300 mm.

Types of fixing
concrete block/brick walls

- **Central hole in frame** (Type A)
- **Tie plate external to frame** (Type B)
- **Double hole internal tie plate** (Type C)
- **Welded on anchor plate** (Type D1)
- **Welded with plug/screw fitting** (Type D2)

Corner frame connection
- Opposite side corner frame connecting

Enclosed wall frame connection
- Installation onto the gypsum board of steel grid (Type E)
- Installation onto the gypsum board of steel grid (Type F)

Spacing of anchors

Note:

1. When installing preinserts in light walls, dimensions must be calculated from the final floor level, after which the installer should first fix the preinserts (iron angle, wood block keel, or concrete block).
2. Please consult technician for the position of preinserts if top/side elements are applied.
Hörmann— a Reliable Partner for Home and Industry

1. Industrial sectional doors
2. Rolling shutters
3. Flexible high-speed doors
4. High-speed sectional doors
5. Loading technology
6. Partition walls
7. Steel multi-purpose doors
8. Steel fire-rated doors
9. Steel interior doors
Hörmann is the only manufacturer worldwide that offers you a complete range of all major building products from one source. We manufacture in highly-specialized factories using the latest production technologies. The comprehensive manufacturing, sales and service network in Europe, Asia and America makes Hörmann your strong international partner for the high-quality construction. “Quality without Compromise”.

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