NEW
Fully bonded composite construction
OD with permanently flush surface

DEVELOPED FOR THE EUROPEAN STANDARD
EN 16034
EN 14351

Multi-Function Doors
Fire-rated and smoke-tight doors, acoustic-rated doors,
security doors, multi-purpose doors
Brand-name quality from Hörmann 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.
Secure solutions with international approval

Hörmann provides you with all the doors you need from a single source. With a matching appearance and precisely the functions you require for your project – fire protection, smoke protection, acoustic insulation and burglar protection. Hörmann’s fire protection solutions are internationally approved. Several designs correspond to the “British Standard” and are thus approved for use in large parts of the Commonwealth. We also have approvals for China, where Hörmann manufactures fire-rated doors for the local market.

Established sales organisations are available within the corresponding countries for planning and implementation.

Fire testing at own fire test chamber

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 within our customer-oriented sales organisation accompany 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 construction project door programme
The right solution for any requirement
**Function doors**
From sturdy steel internal doors and secure apartment entrance doors to fully glazed office doors up to external doors with thermal break, Hörmann offers a large programme with diverse colour and equipment variants.

**Steel and stainless steel multi-function doors**
Steel multi-function doors offer crucial advantages for architects and building owners: Doors with different functional requirements that are fitted in the same storey match perfectly thanks to their identical look. STS / STU steel and stainless steel doors feature a flush-fitting, elegant appearance.

**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 or 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 also available for special requirements, i.e. in heat and acoustic insulation or radiation-proof versions, as well as in the fire-retarding F30 and fire-resistant F90 variants. Individual solutions can be implemented using rail divisions, recesses and angles.
Sustainable production for trend-setting construction

Sustainability documented and approved by the ift in Rosenheim

Hörmann has received confirmation of the sustainability of all its multi-function doors through an environmental product declaration (EPD) in accordance with ISO 140425 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 EN 14040 / 14044 for all doors.

Sustainably produced multi-function doors from Hörmann

- Environmentally friendly production e.g. solvent-free powder coating at the factory, which can be treated on-site with limited-VOC paints or primers.
- Regional raw materials The majority of applied raw materials are purchased from Germany and central Europe.
- Durable, low maintenance products Approved in a functional test with more than 200000 closing cycles.

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.

* For more information please visit our website at www.hoermann.co.uk
The new Architects’ Program

Planning with Hörmann products is now even easier thanks to a new, modern, user-friendly interface. Clearly structured navigation via drop-down menus and symbols, as well as a search function, give you faster access to tender specifications and drawings (in DWG and PDF format) of over 850 Hörmann products. Photo-realistic presentations provide additional information on many products. The Architects’ Program can be downloaded free-of-charge from the Hörmann Architects’ Forum.
You can extend the main functions of multi-function doors (e.g. fire protection) based on your individual requirements. Numerous additional functions are at your disposal. For example, you can optionally equip your fire-rated door with break-in-resistant RC 2 security equipment. See our table on page 25 for all the combination options.

Whether fire-rated or smoke-tight – Hörmann multi-function doors are convincing in every detail. Independent of their functions, all doors have a perfectly matched appearance. The result is a harmonious overall look in your building.
Hörmann automatic hinged doors enable barrier-free passage and are universally applicable. Our multi-function doors are equipped with the corresponding operator at the factory. You can operate the automatic door conveniently via a button, radar or movement detector or Hörmann operating elements with BiSecur radio technology, such as the convenient hand transmitter.

Corresponding to the new European product standards EN 16034 and EN 14351
Steel fire-rated doors H3 OD are designed in accordance with European fire protection requirements and are geared towards the product standard EN 16034 as well as tested according to DIN 4102 and EN 1634. Steel multi-function doors D65 OD are geared towards the product standard EN 14351 and are supplied with a CE mark. For you this means that, after they come into effect, these product standards will replace country-specific approvals. Only these European standards and any relevant country-specific requirements now apply for planning your fire-rated doors.
Multi-function door OD
Robust, high-quality door featuring excellent leaf strength

With fully bonded door leaf
The fully bonded composite construction 1 of the door leaf ensures particularly high stability and leaf strength. The door always closes securely and accurately with a satisfying noise.

Harmonious appearance
In double-leaf doors, the flush-fitting transition of the two door leaves forms a harmonious overall appearance.
Flush surface

Hörmann multi-function doors OD convince with their permanently flush surface. Your advantage: the risk of door leaf warping or unevenness is virtually eliminated.

Optimal frame solution

The Hörmann frame system guarantees a stable wall connection for optimal and long-lasting door functionality, making it the optimal frame solution for every wall type.
Rebate and door leaf on request
On request, Hörmann multi-function doors are available in a thin rebate (standard) or thick rebate version. For an especially harmonious door appearance, we also offer OD doors with a flush-closing door leaf.

Colour surface finish
For a high-quality appearance, we supply all door leaves and frames not only in galvanized and powder-coated versions in Grey white, but optionally in RAL to choose or with a decor surface (H3 OD, D65 OD). We recommend fitting with the Hörmann DryFix frame (more information on page 18).

Securely locked
Hörmann steel doors are equipped with a high-quality mortice lock with lever/knob and are prepared for a profile cylinder as standard. A robust rebate locking bolt or latch in rebate reliably secures the fixed leaf in double-leaf doors.

Quality down to the last detail
High-quality series equipment in all multi-function doors
4 Stylish, high-quality lever handles
The FS round lever handle set is both convenient and stable, and is fitted to your multi-function door in a black polypropylene version as standard. A short escutcheon, a securely fitted lever handle and a deadlock insert with a key complete the high-quality equipment. Break-in-resistant doors are supplied with a standard FS security handle set made of aluminium, tested in accordance with EN 1906/DIN 18257 class ES 1 – ES 3 (short escutcheon with cylinder cover and drill-proof profile cylinder).

5 Self-closing function as standard
The standard self-closing function makes a fire-rated or smoke-tight door a reassuring purchase. In single-leaf doors, the self-closing function is realised by a stable, robust spring hinge or Hörmann slide rail door closer HDC 35 (depending on equipment and size).

Double-leaf fire-rated and smoke-tight doors are equipped with a linkage door closer as standard (not shown). The mechanical door leaf selector ensures the correct locking sequence for both door leaves.

6 Maintenance-friendly hinges
Our multi-function doors are equipped with 2 robust hinge sets with ball bearing. Multi-function doors OD provide additional comfort: The maintenance-friendly rolling bearings on the door leaf can be easily and conveniently replaced.

7 Perfectly adjustable 3-way hinges
Use the optional and practical 3-way adjustable hinges to re-adjust your multi-function door. Even small deviations can easily be compensated for. The hinges are available in a galvanized powder-coated (standard for high-acoustic-rating and flush-closing doors) or a high-quality stainless steel version.

8 Sturdy security bolts
Safer is better: In fire-rated and smoke-tight doors, sturdy steel security bolts provide additional stability on the hinge side in the event of a fire. Break-in-resistant doors are protected against possible forced opening with up to 7 solid steel security bolts (depending on the resistance class).
Frame system
Flexible, versatile and quickly fitted

The Hörmann frame system guarantees a stable wall connection for optimal and long-lasting door functionality, providing the door leaf with the ideal framework: lasting quality, reliable stability and a high resistance. Individual frame solutions in genuine Hörmann quality are also available for your wall type:

Advantages at a glance:
- Sheet thickness 2 mm
- Floor recess 30 mm*, but can be shortened during fitting
- Moulded sealing groove
- As standard galvanized and with powder-coated primer in Grey white (similar to RAL 9002)
- Optional in RAL to choose
- Simple and fast fitting via diagonal fixing or fixing brackets including steel spacers

Frames with mineral wool backfill for solid walls
DryFix frame for quick, clean fitting (page 18)

Frames with mineral wool backfill for dry construction
For retrofitting with a double-shell profile frame with concealed bolting (page 20).

Frame with mortar for solid walls
Many frame variants for especially heavy wear (page 22)

Advance delivery
To allow flexible fitting, we can also deliver the frames for high-quality construction project doors including 3-way adjustable hinges in advance. This gives you even more freedom in planning the fitting:
- The frames, as well as the 3-way adjustable hinges, can already be fitted during construction.
- The door leaf is fitted after construction, helping to avoid damage and soiling.

* DryFix and dry construction frames for finished floors
**Flush-fitting cover caps**
In frames that are fitted in the reveal, flush-fitting cover caps ensure the attractive appearance of the frame. They can be painted over and thus completely hidden.

**Edge guard**
All doors that are not provided with lock plates at the factory are equipped with an edge guard made of high-quality plastic as standard. This effectively protects the priming or the on-site coating. In addition, the door closes more quietly.
Frames with mineral wool backfill for solid walls
Quicker, cleaner fitting with DryFix frame

Fitting made easy with the DryFix frame

The Hörmann DryFix frame is the ideal solution for simple, quick, clean fitting. The advantage: The frame is fully prepared at the factory and already backfilled with mineral wool or gypsum cardboard strips. This saves up to 50% of the required fitting time at the construction site. Diagonal fixing with only one 100 mm (160 mm for gas concrete) anchoring screw per fixing point ensures maximum frame stability. The concealed fastening holes in the frame rebate are covered with cover caps and are invisible when the door is closed. Fitting without mortar is optimal for unplastered brickwork, as the risk of soiling or damaging the frame or brickwork on the frame or the brickwork is minimised. The DryFix frame is particularly suitable for fitting to existing structures since it can easily be retrofitted.

See the fitting video at: http://www.hoermann.co.uk/videos
DryFix frame
Optimum for fitting to unplastered brickwork

DryFix frame with diagonal fixing
(Unplastered brickwork / concrete)

Double-shell profile frame with concealed plug-and-screw fitting and mineral wool backfill
(Brickwork / unplastered brickwork / concrete, also for plastered brickwork)

DryFix frame with diagonal fixing
(Plastered brickwork)

Block frame with flush-fitting cover caps as concealed plug-and-screw fitting
(Brickwork / concrete)

DryFix frame with diagonal fixing
(Gas concrete)

Block frame with flush-fitting cover caps as concealed plug-and-screw fitting in the opening
(Brickwork / concrete)

Double-shell block frame with increased frame depth and concealed plug-and-screw fitting
(Brickwork / concrete)

All dimensions in mm.
* Dependent on the door leaf thickness and rebate type
Frames with mineral wool backfill for dry construction
Quick, concealed fitting with DryFix corner frame and profile frame

Double-shell profile frame with concealed bolting
The double-shell profile system is particularly suitable for retrofitting. It is fastened to the partition wall via 8 fixing points (in single-leaf doors), one screw each. First, only corner frame profile 1 is mounted. After this step, the door leaf can be adjusted so that it is optimally fitted to the seal. This is particularly advantageous for doors featuring smoke protection, acoustic insulation or thermal insulation. Only then is counter frame profile 2 mounted. Next, the two frame profiles are fastened with screws concealed in the sealing groove. The screw is covered by the sealing. With a depth of 76 mm on the opposite hinge side, the frame can be filled with mineral wool on-site. You can optionally receive suitably shaped parts from the factory.
DryFix frame with diagonal fixing (F90 B timber partition walls)

Corner and counter frame with screw-fixing (Partition wall)

Double-shell profile frame with concealed plug-and-screw fitting and mineral wool backfill (Partition wall) F90 A and F90 B (shown: F90 A)

Profile frame with screw-fixing (Partition wall)

All dimensions in mm.

* Dependent on the door leaf thickness and rebate type
Frames with mortar for solid walls
Frame types for heavy wear

For more stability and strength

For particularly high demands on frame stability and strength, fitting with mortar backfill is ideal. It is primarily used in heavy doors and doors with heavy wear. Fitting is quick and easy with the supplied fixing systems including spacers. The plug lengths ranging from 80 to 100 mm make these frame types very installation-friendly.
Corner frame with fitting by welding (Gas concrete)

Corner and counter frame with plug-and-screw fitting (Brickwork / concrete)

Corner and counter frame with concealed plug-and-screw fitting and counter frame with fitting by welding (Unplastered brickwork / concrete)

Block frame with flush-fitting cover caps as concealed plug-and-screw fitting in front of the opening (Brickwork/max. T30 doors)

Profile frame with plug-and-screw fitting through the frame reveal (Unplastered brickwork / concrete)

Profile frame with fitting by welding (Gas concrete / unplastered brickwork)

Profile frame with diagonal fixing (Brickwork)

All dimensions in mm.

* Dependent on the door leaf thickness and rebate type
Always the perfect solution for your requirements
Fire-retarding, smoke-tight, acoustic-rated, break-in-resistant

Fire-rated and smoke-tight doors
Smoke and fire damage can have fatal, life-threatening consequences. This makes safe equipment with fire-rated and smoke-tight doors even more crucial. It’s a good thing that you can rely on tested, officially approved Hörmann fire-rated and smoke-tight doors.

Acoustic-rated doors
Noise not only reduces the ability to concentrate, but can also trigger stress and result in permanent illness. This is why it is important to best insulate noise at its point of origin. Hörmann acoustic-rated doors make a major contribution with acoustic values of up to 61 dB.

Security doors
Safety first! Hörmann break-in-resistant doors have been tested and certified in accordance with European standards DIN ENV 1627 to 1630 since 1999. Double-leaf security doors in resistance class RC 3 with anti-panic function according to EN 1125 reliably secure your emergency exits against break-in attempts.

Multi-purpose doors
For warehouse or office, interior or exterior use, with or without special equipment – the large range of Hörmann multi-purpose doors meets a wide variety of requirements.
**Needs-based combinations**
All possibilities at a glance

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■ Main function – as standard
● Additional function – with corresponding equipment
* Available from autumn 2015, until then delivery as fire-rated door H3
** Available from autumn 2015, until then delivery as fire-rated door H3 VM
*** Available from autumn 2015, until then delivery as security door E65
Hörmann products
- T30 steel fire-rated doors H3
- T90 steel fire-rated doors H16
- Steel smoke-tight doors RS 55
- Multi-purpose doors D65
- Multi-purpose doors D55
- T30 stainless steel fire-rated doors STS / STU

Tower 185, Frankfurt
Architect: Christoph Mäckler Architekten, Frankfurt am Main
T30 fire-rated door
H3D
Single-leaf

Main function
Fire-retarding

Optional extras

Glazings Page 46
Fixed top panels Page 48
Special equipment Page 51
Door Sizing Page 58

Thin rebate
Door leaf thickness
45 mm

Smoke-tight

Acoustic-rated
Acoustic values from
37 – 44 dB

Break-in-resistant

T30

Additional functions
(with corresponding equipment)

Additional functions / performance characteristics
Thermal insulation $U_D$
1.9 W/(m²·K)

Acoustic rating category
II III
With bottom profile with seal 41 dB -
With retractable bottom seal 37 dB -
With threshold rail with seal - 44 dB

Fire-rated door
H3D-1
Design
Welded design
Door leaf
45 mm
Sheet thickness
1.0 mm
Rebate type
Thin rebate

Fitting in
Brickwork $\geq 115$ mm
Concrete $\geq 100$ mm
Gas concrete blocks $\geq 150$ mm
Gas concrete slabs $\geq 150$ mm
Prefabricated walls according to DIN 4102-4, Tab. 48 $\geq 100$ mm

Addition Size range Width Height
Nominal size (ordering size) 625 – 1125 1750 – 2250

All dimensions in mm
27
Building “X” at Bielefeld University
Architect: Architektur- und Ingenieurbüro agn Niederberghaus & Partner, Ibbenbüren

Hörmann products
- Steel fire-rated doors H3
- Steel fire-rated doors H16
- Stainless steel fire-rated doors STS
- Fire sliding doors FST
**T30 fire-rated door**

**H3 OD**

Single and double-leaf

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**Optional extras**

- Glazings: Page 46
- Fixed top panels: Page 48
- Decor Surfaces: Page 50
- Special equipment: Page 51
- Door Sizing: Page 58

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**Main function**

- Fire-retarding

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**Additional functions**

- Smoke-tight

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**Break-in-resistant**

Not in combination with glazing and top panel

Available from autumn 2015, until then delivery as H3

Only H3-1 OD

Available from autumn 2015, until then delivery as H3-1

**Decor Surfaces**

As thick rebate

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**Thin rebate**

Door leaf thickness

- 65 mm

**Thick rebate**

Door leaf thickness

- 65 mm

**Flush**

Door leaf thickness

- 59 mm

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**Main function**

**Fire-retarding**

---

**T30**

---

**Acoustic-rated**

H3-1 OD: acoustic values from 37 – 40 dB, thin rebate/thick rebate

H3-2 OD: on request

---

**RC 2**

Not in combination with glazing and top panel

---

**RC 3**

---

**RC 4**

---

**Additional functions / performance characteristics**

**Thermal insulation** $U_D$

- 1.2 W/(m²·K)**

- 1.3 W/(m²·K)**

**Acoustic rating category**

- I (Standard)
- II (Optional)
- III (Optional)

**With bottom profile with seal**

- 33 dB
- 38 dB** / 40 dB***

**With retractable bottom seal**

- 32 dB
- 37 dB** / 39 dB***

**With threshold rail with seal**

- 33 dB
- 38 dB** / 40 dB***

**With all-round frame on 4 sides**

- 33 dB
- 38 dB** / 40 dB***

* With top panel

** For a door without glazing or top panel

*** Doors with 1.0 mm sheet thickness

**** Doors with 1.5 mm sheet thickness

---

**Size range**

<table>
<thead>
<tr>
<th></th>
<th>H3-1 OD</th>
<th>H3-2 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal size</strong> (ordering size)</td>
<td>Width</td>
<td>Height</td>
</tr>
<tr>
<td>500 – 1500</td>
<td>500 – 2500</td>
<td>1375 – 2500</td>
</tr>
<tr>
<td><strong>With fixed top panel</strong></td>
<td>– 3500</td>
<td>– 3500</td>
</tr>
<tr>
<td><strong>Traffic leaf width</strong></td>
<td>750 – 1250</td>
<td></td>
</tr>
<tr>
<td><strong>Fixed leaf width</strong></td>
<td>500 – 1250</td>
<td></td>
</tr>
</tbody>
</table>

All dimensions in mm
T30 fire-rated door
H3 G / H3 VM
Single and double-leaf

Main function
Fire-retarding

Additional functions (with corresponding equipment)
Smoke-tight

Fire-rated door
H3 G-1
Welded design
Design
Door leaf
65 mm
Sheet thickness
1.5 mm
Rebate type
Thin rebate

H3 VM-2
Welded design
Design
Door leaf
65 mm
Sheet thickness
1.5 mm
Rebate type
Thin/thick rebate

Fitting in
Brickwork
≥ 240 mm
≥ 175 mm
Concrete
≥ 140 mm
≥ 140 mm
Gas concrete blocks
≥ 175 mm
≥ 175 mm
Gas concrete slabs
≥ 175 mm
≥ 175 mm
Prefabricated walls according to DIN 4102-4, Tab. 48
≥ 100 mm
≥ 100 mm

Additional functions / performance characteristics
Thermal insulation $U_D$
2.0 W/(m²·K)
1.5 W/(m²·K)

Size range
<table>
<thead>
<tr>
<th>H3 G-1</th>
<th>H3 VM-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>Height</td>
</tr>
<tr>
<td>875 – 1500</td>
<td>2500 – 3250</td>
</tr>
</tbody>
</table>

Optional extras
- Glazings: Page 46
- Fixed top panels: Page 48
- Special equipment: Page 51
- Door Sizing: Page 58

All dimensions in mm
T30 fire-rated door
H3 KT
Single-leaf

Main function
T30
Fire-retarding

Use in exterior walls
With national technical approval

Additional functions
(with corresponding equipment)

Acoustic-rated
Acoustic values from 38 – 45 dB

Break-in-resistant
WK 2
RC 2

Thick rebate
Door leaf thickness 55 mm, sheet thickness 1.5 mm

Fire-rated door
H3 KT

Design
Welded design

Door leaf
55 mm

Sheet thickness
1.5 mm

Rebate type
Thick rebate

Fitting in
Brickwork ≥ 115 mm
Concrete ≥ 100 mm
Gas concrete blocks ≥ 150 mm
Gas concrete slabs ≥ 150 mm

Additional functions / performance characteristics

Thermal insulation $U_d$ 1.9 W/(m²·K)
Acoustic insulation 38 – 45 dB
Security RC 2
Wind load Class C5
Water tightness under heavy rain
Class 1A (opening inwards)
Class 2A (opening outwards)
Air permeability Class 3
Operating forces
Class 1 (opening inwards)
Class 2 (opening outwards)
Mechanical strength Class 4
Differential climate behaviour Class 2(d) / 2(e)

The listed values depend on the door features and fitting situation.

Optional extras
Glazings Page 46
Fixed top panels Page 48
Special equipment Page 51
Door Sizing Page 58

Size range

<table>
<thead>
<tr>
<th>H3 KT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
</tr>
<tr>
<td>625 – 1125</td>
</tr>
</tbody>
</table>

All dimensions in mm
ESO European Southern Observatory, Garching near Munich
Architect: Auer Weber, Munich

Hörmann products
- Steel fire-rated doors H3
- Steel multi-purpose doors D45 / D55
- Fire sliding doors FST
- Steel fire-rated doors STS
# T60 fire-rated door
## H6
### Single and double-leaf

**Main function**
High fire resistance

**Thin rebate**
Door leaf thickness 65 mm

**Thick rebate**
Door leaf thickness 65 mm

**Optional extras**
- Glazings: Page 46
- Fixed top panels: Page 48
- Special equipment: Page 51
- Door Sizing: Page 58

**Additional functions**
(with corresponding equipment)

**Smoke-tight**

**Acoustic-rated**
Acoustic values from 37 – 45 dB

**Break-in-resistant**
Up to 2500 × 2500 mm

---

### Fire-rated door

<table>
<thead>
<tr>
<th>Design</th>
<th>H6-1</th>
<th>H6-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door leaf</td>
<td>Welded design</td>
<td>Welded design</td>
</tr>
<tr>
<td>Sheet thickness</td>
<td>1.0 / 1.5 mm</td>
<td>1.0 / 1.5 mm</td>
</tr>
<tr>
<td>Rebate type</td>
<td>Thin / thick rebate</td>
<td>Thin rebate</td>
</tr>
</tbody>
</table>

**Fitting in**

<table>
<thead>
<tr>
<th>Material</th>
<th>Thin rebate</th>
<th>Thick rebate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brickwork</td>
<td>≥ 115° / 175 mm</td>
<td>≥ 175 mm</td>
</tr>
<tr>
<td>Concrete</td>
<td>≥ 100° / 140 mm</td>
<td>≥ 140 mm</td>
</tr>
<tr>
<td>Gas concrete blocks</td>
<td>≥ 175° / 200 mm</td>
<td>≥ 200 mm</td>
</tr>
<tr>
<td>Gas concrete slabs</td>
<td>≥ 175° / 200 mm</td>
<td>≥ 200 mm</td>
</tr>
<tr>
<td>Partition walls</td>
<td>≥ 125 mm</td>
<td>≥ 125 mm</td>
</tr>
</tbody>
</table>

* Up to BRB 625 mm and BRH 750 mm

---

**Additional functions / performance characteristics**

<table>
<thead>
<tr>
<th>Thermal insulation $U_0$</th>
<th>1.8 W/(m²·K)</th>
<th>1.8 W/(m²·K)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Acoustic rating category</th>
<th>II</th>
<th>III</th>
<th>II</th>
<th>III</th>
</tr>
</thead>
<tbody>
<tr>
<td>With bottom profile with seal</td>
<td>40 dB</td>
<td>-</td>
<td>-</td>
<td>42 dB</td>
</tr>
<tr>
<td>With retractable bottom seal</td>
<td>38 dB</td>
<td>-</td>
<td>37 dB</td>
<td>-</td>
</tr>
<tr>
<td>With threshold rail with seal</td>
<td>-</td>
<td>43 dB</td>
<td>-</td>
<td>45 dB</td>
</tr>
<tr>
<td>With all-round frame on 4 sides</td>
<td>-</td>
<td>43 dB</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Break-in-resistant**
Up to 2500 × 2500 mm

---

<table>
<thead>
<tr>
<th>Size range</th>
<th>H6-1</th>
<th>H6-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>625 – 1250</td>
<td>1375 – 2500</td>
</tr>
<tr>
<td>Height</td>
<td>1750 – 2500</td>
<td>1750 – 2500</td>
</tr>
</tbody>
</table>

**Nominal size (ordering size)**

<table>
<thead>
<tr>
<th>With fixed top panel</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>625 – 1250</td>
<td>1375 – 2500</td>
</tr>
<tr>
<td></td>
<td>- 3500</td>
<td>- 3500</td>
</tr>
</tbody>
</table>

**Traffic leaf width**

<table>
<thead>
<tr>
<th>Width</th>
<th>750 – 1250</th>
</tr>
</thead>
</table>

**Fixed leaf width**

<table>
<thead>
<tr>
<th>Width</th>
<th>500 – 1250</th>
</tr>
</thead>
</table>

---

All dimensions in mm
RAMADA Hotel & Conference Center Munich
Architect: Katrin Hootz Architektengesellschaft, Munich

Hörmann products
- T30 steel fire-rated doors H3
- T30 aluminium fire-rated doors HE 321
- Automatic sliding doors AD 100
- T30 steel fire-rated door H3
- T90 steel fire-rated door H16
- T30 steel hollow profiled section door HL 310 / 320
- T90 steel hollow profiled section door HL 921
T90 fire-rated door
H16 OD
Single and double-leaf

Thin rebate
Door leaf thickness 65 mm

Thick rebate
Door leaf thickness 65 mm

Main function
Fire-proof

Additional functions
Smoke-tight

Acoustic-rated
Acoustic values from 34 – 44 dB, thin rebate / thick rebate

Break-in-resistant
Only H16-1 OD: Not in combination with glazing and top panel
From 625 × 1750 mm
Up to 1250 × 2500 mm

Fire-rated door
H16-1 OD
H16-2 OD

Design
Fully bonded composite construction
Fully bonded composite construction

Door leaf
65 mm
65 mm

Sheet thickness
1.0 / 1.5 mm
1.0

Rebate type
Thin / thick rebate
Thin / thick rebate

Fitting in
Brickwork
≥ 175 mm
≥ 175 mm

Concrete
≥ 140 mm
≥ 140 mm

Gas concrete blocks
≥ 200 mm
≥ 200 mm

Gas concrete slabs
≥ 200 mm
≥ 200 mm

Prefabricated walls according to DIN 4102-4, Tab. 48
≥ 125 mm
≥ 125 mm

Prefabricated walls according to DIN 4102-4, Tab. 49
≥ 125 mm
≥ 125 mm

Additional functions / performance characteristics

Thermal insulation $U_0$
1.2 W/(m²·K)*
1.3 W/(m²·K)*

Acoustic rating category
I (Standard) II (Optional) III (Optional)
I (Standard) II (Optional) III (Optional)

With bottom profile with seal
35 dB 43 dB
35 dB 43 dB

With retractable bottom seal
34 dB 39 dB 42 dB**
34 dB 38 dB 44 dB**

With threshold rail with seal
35 dB 44 dB
35 dB 42 dB

With all-round frame on 4 sides
35 dB 44 dB
35 dB 42 dB

All values refer to a door with 1.0 mm sheet thickness
* For a door without glazing or top panel
** With double retractable bottom seal

Optional extras
Glazings Page 46
Fixed top panels Page 48
Special equipment Page 51
Door Sizing Page 58

Size range
H16-1 OD H16-2 OD

<table>
<thead>
<tr>
<th>Size range</th>
<th>Width</th>
<th>Height</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal size (ordering size)</td>
<td>500 – 1250</td>
<td>500 – 2500</td>
<td>1375 – 2500</td>
<td>1750 – 2500</td>
</tr>
<tr>
<td>Traffic leaf width</td>
<td>750 – 1250</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed leaf width</td>
<td>500 – 1250</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All dimensions in mm
T90 fire-rated door
H16 / H16 G
Single-leaf

**Main function**
Fire-proof

**Thin rebate**
Door leaf thickness
65 / 78 mm

**Thick rebate**
Door leaf thickness
65 mm

**Optional extras**
Glazings Page 46
Fixed top panels Page 48
Special equipment Page 51
Door Sizing Page 58

**Fire-proof**

**Main function**
Fire-proof

**Additional functions**
(with corresponding equipment)

**Smoke-tight**

**Acoustic-rated**
H16-1: Acoustic values from 38 – 43 dB

**Break-in-resistant**
Up to 1250 × 2500 mm

**Additional functions / performance characteristics**

<table>
<thead>
<tr>
<th>Acoustic insulation $U_{w}$</th>
<th>H16-1</th>
<th>H16 G-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal insulation $U_{w}$</td>
<td>1.8 W/(m²·K)</td>
<td>1.8 W/(m²·K)</td>
</tr>
<tr>
<td>Acoustic rating category</td>
<td>II</td>
<td>III</td>
</tr>
<tr>
<td>With bottom profile with seal</td>
<td>40 dB</td>
<td>-</td>
</tr>
<tr>
<td>With retractable bottom seal</td>
<td>38 dB</td>
<td>-</td>
</tr>
<tr>
<td>With threshold rail with seal</td>
<td>-</td>
<td>43 dB</td>
</tr>
<tr>
<td>With all-round frame on 4 sides</td>
<td>-</td>
<td>43 dB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size range</th>
<th>H16-1</th>
<th>H16 G-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>500 – 1250</td>
<td>875 – 1500</td>
</tr>
<tr>
<td>Height</td>
<td>500 – 2500</td>
<td>2000 – 3250</td>
</tr>
</tbody>
</table>

All dimensions in mm
**T90 fire-rated door**  
**H16 / H16 G**  
**Double-leaf**

### Main function
- **Fire-proof**
- **Smoke-tight**
- **Acoustic-rated**
- **Break-in-resistant**

### Additional functions
- Thin rebate
- Door leaf thickness: 65 / 78 mm

### Design
- **H16-2**
  - Welded design
  - Door leaf: 65 mm
  - Sheet thickness: 1.0 / 1.5 mm
  - Rebate type: Thin rebate

- **H16 G-2**
  - Welded design
  - Door leaf: 78 mm
  - Sheet thickness: 1.5 mm
  - Rebate type: Thin rebate

### Fitting in
- **Brickwork**: ≥ 175 mm / ≥ 240 mm
- **Concrete**: ≥ 140 mm / ≥ 200 mm
- **Gas concrete blocks**: ≥ 150 mm
- **Gas concrete slabs**: ≥ 150 mm
- **Prefabricated walls according to DIN 4102-4, Tab. 48**: ≥ 125 mm
- **Prefabricated walls according to DIN 4102-4, Tab. 49**: ≥ 125 mm

### Additional functions / performance characteristics
- **Thermal insulation** $U_o$: 1.7 W/(m²·K)
- **Acoustic rating category**
  - **II**
  - **III**
  - With bottom profile with seal: 42 dB
  - With retractable bottom seal: 37 dB
  - With threshold rail with seal: 45 dB

### Size range

<table>
<thead>
<tr>
<th></th>
<th>H16-2</th>
<th>H16 G-2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Width</strong></td>
<td>1375 – 2500</td>
<td>1500 – 3000</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>1750 – 2500</td>
<td>2000 – 3250</td>
</tr>
</tbody>
</table>

---

All dimensions in mm
Jänschwalde power station works fire brigade, Peitz
Architect: Planungsgruppe Prof. Sommer, Cottbus

Hörmann products
- T30 steel fire-rated doors H3
- T30 aluminium fire-rated door HE 321
- Industrial sectional doors APU F42
Smoke-tight door
RS55
Single and double-leaf

**Main function**
Smoke-tight
With bottom door seal type 1 or 2

**Additional functions**
(with corresponding equipment)

**Smoke-tight door**

<table>
<thead>
<tr>
<th>Design</th>
<th>RS55-1</th>
<th>RS55-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door leaf</td>
<td>55 mm</td>
<td>55 mm</td>
</tr>
<tr>
<td>Sheet thickness</td>
<td>1.0 / 1.5 mm</td>
<td>1.0 / 1.5 mm</td>
</tr>
<tr>
<td>Rebate type</td>
<td>Thin / thick rebate</td>
<td>Thin / thick rebate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fitting in</th>
<th>RS55-1</th>
<th>RS55-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brickwork</td>
<td>≥ 115 mm</td>
<td>≥ 115 mm</td>
</tr>
<tr>
<td>Concrete</td>
<td>≥ 100 mm</td>
<td>≥ 100 mm</td>
</tr>
<tr>
<td>Gas concrete blocks</td>
<td>≥ 150 mm</td>
<td>≥ 150 mm</td>
</tr>
<tr>
<td>Gas concrete slabs</td>
<td>≥ 150 mm</td>
<td>≥ 175 mm</td>
</tr>
<tr>
<td>Prefabricated walls according to DIN 4102-4, Tab. 48</td>
<td>≥ 100 mm</td>
<td>≥ 100 mm</td>
</tr>
</tbody>
</table>

**Additional functions / performance characteristics**

<table>
<thead>
<tr>
<th>Thermal insulation $U_0$</th>
<th>1.9 W/(m²·K)</th>
<th>2.0 W/(m²·K)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acoustic rating category</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>With bottom profile with seal</td>
<td>41 dB</td>
<td>40 dB</td>
</tr>
<tr>
<td>With retractable bottom seal</td>
<td>38 dB</td>
<td>38 dB</td>
</tr>
</tbody>
</table>

**Door bottom seals**

- **Type 1**
  - Aluminium bottom profile with seal, frame with stepped threshold
- **Type 2**
  - Bottom seal, retractable

**Optional extras**

<table>
<thead>
<tr>
<th>Glazings</th>
<th>Page 46</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed top panels</td>
<td>Page 48</td>
</tr>
<tr>
<td>Special equipment</td>
<td>Page 51</td>
</tr>
<tr>
<td>Door Sizing</td>
<td>Page 58</td>
</tr>
</tbody>
</table>

**Size range**

<table>
<thead>
<tr>
<th>RS55-1</th>
<th>RS55-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width Height</td>
<td>Width Height</td>
</tr>
<tr>
<td>Nominal size (ordering size)</td>
<td>625 – 1250</td>
</tr>
<tr>
<td>With fixed top panel</td>
<td>– 3500</td>
</tr>
<tr>
<td>Traffic leaf width</td>
<td>750 – 1250</td>
</tr>
<tr>
<td>Fixed leaf width</td>
<td>500 – 1250</td>
</tr>
</tbody>
</table>

All dimensions in mm
25hours Hotel Hamburg Hafencity
Architect: Böge Lindner 2K Architekten, Hamburg

Hörmann products
- T30 steel fire-rated door H3
- T30 steel fire-rated door HL 321
- T30 steel system wall
### Acoustic-rated door
**HS75 / H16 S**
**Single-leaf**

**Main function**
**High acoustic rating**
Acoustic values from 50 – 61 dB

**Addition functions**
(with corresponding equipment)

**Fire-proof**
H16 S

**Smoke-tight**

**Break-in-resistant**

**Optional extras**
- Glazings Page 46
- Fixed top panels Page 48
- Special equipment Page 51
- Door Sizing Page 58

---

#### Additional functions / performance characteristics

<table>
<thead>
<tr>
<th>Door bottom seals</th>
<th>HS75-1</th>
<th>H16 S-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threshold rail with seal and 2 retractable bottom seals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 retractable bottom seals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stepped threshold with seal</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Acoustic Insulation door
**HS75-1**
**Welded design**

**Design**
- Door leaf 75 mm
- Sheet thickness 1.0 mm
- Rebate type Thick rebate

**Fitting in**
- Brickwork ≥ 115 mm
- Concrete ≥ 100 mm

<table>
<thead>
<tr>
<th>Additional functions / performance characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thermal insulation</strong> $U_d$</td>
</tr>
<tr>
<td><strong>Acoustic rating category</strong></td>
</tr>
<tr>
<td>With threshold rail with seal and 2 retractable bottom seals</td>
</tr>
<tr>
<td>With 2 retractable bottom seals</td>
</tr>
<tr>
<td>With threshold rail with seal</td>
</tr>
</tbody>
</table>

**For increased requirements, acoustic rating category VI**
- With 2 retractable bottom seals 59 dB
- With 2 aluminium bottom profiles with seal and stepped threshold 59 dB
- With threshold rail with seal 61 dB

<table>
<thead>
<tr>
<th>Size range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal size (ordering size)</strong></td>
</tr>
<tr>
<td>HS75-1</td>
</tr>
<tr>
<td>H16 S-1</td>
</tr>
</tbody>
</table>

All dimensions in mm
Office building at Rödingsmarkt, Hamburg
Architect: Bothe Richter Teherani, Hamburg

Hörmann products
- T30 steel fire-rated doors H3
- T90 steel fire-rated doors H16
- T30 steel fire-rated doors STS
- T30 aluminium fire-rated doors HE 311
Multi-function door
D65 OD
Single and double-leaf

Optional extras
- Glazings Page 46
- Fixed top panels Page 48
- Decor Surfaces Page 50
- Special equipment Page 51
- Door Sizing Page 58

Main function
Multi-purpose door

Additional functions
- Acoustic-rated
  Acoustic values from 37 – 40 dB
- Break-in-resistant
  Not in combination with glazing and top panel
  From 625 × 1750 mm
  Up to 1250 × 2500 mm

RC 2
Availble from autumn 2015, until then delivery as E65

RC 3
Available from autumn 2015, until then delivery as E65

RC 4
Use in exterior walls
Labelled according to DIN EN 14351-1

Decor Surfaces
As thick rebate

Multi-function door
D65-1 OD
D65-2 OD

Design
Fully bonded composite construction
Fully bonded composite construction

Door leaf
65 / 59 mm
65 / 59 mm

Sheet thickness
1.0 / 1.5 mm
1.0 / 1.5 mm

Rebate type
Thin / thick rebate / flush
Thin / thick rebate / flush

Fitting in

Brickwork
≥ 115 mm
≥ 115 mm

Concrete
≥ 100 mm
≥ 100 mm

Gas concrete blocks
≥ 150 mm
≥ 175 mm

Gas concrete slabs
≥ 150 mm
≥ 175 mm

Prefabricated walls according to DIN 4102-4, Tab. 48
≥ 100 mm
≥ 100 mm

Prefabricated walls according to DIN 4102-4, Tab. 49
≥ 130 mm
≥ 130 mm

Additional functions / performance characteristics

Thermal insulation \( U_d \)
1.2 W/(m²·K)*
1.3 W/(m²·K)*

Acoustic rating category
I (Standard)
II (Optional)
I (Standard)
III (Optional)

With bottom profile with seal
33 dB
38 dB** / 40 dB***
33 dB
- 

With retractable bottom seal
32 dB
37 dB** / 39 dB***
32 dB
44 dB**

With threshold rail with seal
33 dB
38 dB** / 40 dB***
33 dB
43 dB **

With all-round frame on 4 sides
33 dB
38 dB** / 40 dB***
33 dB
43 dB **

* For a door without glazing or top panel
** Doors with 1.0 mm sheet thickness
*** Doors with 1.5 mm sheet thickness

Use in exterior walls
Labelled according to DIN EN 14351-1

EN 14351
DEVELOPED FOR THE EUROPEAN STANDARD

All dimensions in mm
Wittenstein Innovationsfabrik, Igersheim-Harthausen
Architect: HENN Architekten, Munich

Hörmann products
- Steel fire-rated doors H3
- Fire sliding doors FST
- Steel fire-rated doors STS
- High-speed doors V 501S SEL
- Industrial sectional doors SPU F42
Steel door
D65
Single and double-leaf

Main function
Multi-purpose door

Additional function
(with corresponding equipment)

Acoustic-rated
Acoustic values from 38 – 45 dB

Use in exterior walls
Labelled according to DIN EN 14351-1

Steel door

<table>
<thead>
<tr>
<th>Design</th>
<th>D65-1</th>
<th>D65-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door leaf</td>
<td>Welded design</td>
<td>Welded design</td>
</tr>
<tr>
<td>Sheet thickness</td>
<td>65 mm</td>
<td>65 mm</td>
</tr>
<tr>
<td>Rebate type</td>
<td>Thin rebate</td>
<td>Thin rebate</td>
</tr>
</tbody>
</table>

Fitting in

- Brickwork
- Concrete
- Gas concrete blocks
- Gas concrete slabs
- Partition walls

Additional functions / performance characteristics

<table>
<thead>
<tr>
<th>Thermal insulation $U_d$</th>
<th>1.8 W/(m²·K)</th>
<th>1.7 W/(m²·K)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acoustic rating category</td>
<td>II</td>
<td>III</td>
</tr>
<tr>
<td>With bottom profile with seal</td>
<td>40 dB</td>
<td>-</td>
</tr>
<tr>
<td>With retractable bottom seal</td>
<td>38 dB</td>
<td>-</td>
</tr>
<tr>
<td>With threshold rail with seal</td>
<td>-</td>
<td>45 dB</td>
</tr>
</tbody>
</table>

- Wind load
  - Class C5
  - Class C2

- Water tightness under heavy rain
  - Class 1A – 7A
  - Class 4A

- Air permeability
  - Class 3 – 4
  - Class 2

- Operating forces
  - Class 2 – 4

- Mechanical strength
  - Class 4

- Differential climate behaviour
  - Class 2(d) – 3(e)
  - Class 1

The listed values depend on the door features and fitting situation

Optional extras

- Glazings                Page 46
- Fixed top panels        Page 48
- Special equipment       Page 51
- Door Sizing             Page 58

Size range

<table>
<thead>
<tr>
<th></th>
<th>D65-1</th>
<th>D65-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size range</td>
<td>Width</td>
<td>Height</td>
</tr>
<tr>
<td>Nominal size (ordering size)</td>
<td>625 – 1500</td>
<td>2500 – 3500</td>
</tr>
<tr>
<td>With fixed top panel</td>
<td>– 3500</td>
<td>– 3500</td>
</tr>
<tr>
<td>Traffic leaf width</td>
<td>750 – 1500</td>
<td></td>
</tr>
<tr>
<td>Fixed leaf width</td>
<td>500 – 1500</td>
<td></td>
</tr>
</tbody>
</table>

All dimensions in mm
More design options provided by glazings

**Aluminium or steel glazing frame**
As standard, glazing profiles are supplied in galvanized steel, with powder-coated primer in Grey white (similar to RAL 9002). On request, the profiles are also available in brushed stainless steel and rectangular glazing with aluminium cover profiles anodized with a natural-finish (F1).
Glazing is supplied in a standard size that matches the door size proportionally and provides for an attractive look and uniform appearance with its slim profiles. Lever handles do not disturb the line of sight through the glass.

Glazing view 0  Glazing view 1  Glazing view 2

Glazing view 3  Round glazing  Diamond-shaped glazing

<table>
<thead>
<tr>
<th></th>
<th>H3D</th>
<th>H3 VM</th>
<th>H3 OD</th>
<th>H3G</th>
<th>H3 OD RC 2</th>
<th>H6</th>
<th>H6 RC 2</th>
<th>H16</th>
<th>H16 OD</th>
<th>H16 G Single-leaf</th>
<th>H16 RC 2</th>
<th>RS 55</th>
<th>D65</th>
<th>D65 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>View 0</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
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<td>○</td>
<td></td>
<td></td>
</tr>
<tr>
<td>View 1</td>
<td>●</td>
<td></td>
<td>●</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
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<td>●</td>
<td>●</td>
</tr>
<tr>
<td>View 2</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
</tr>
<tr>
<td>View 3</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
</tr>
<tr>
<td>Round glazing</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
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<td>●</td>
</tr>
<tr>
<td>Diamond-shaped glazing</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
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<td>●</td>
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<tr>
<td>Glazing to choose</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
</tr>
</tbody>
</table>

Special glazing available on request
Besides the glazing referred to above we also supply special single or multi-pane glazing in various forms and arrangements within the permitted distances to the sides, bottom section heights and glazing size ranges.

Glazing to choose

Minimum distance to side  A – distance to side  B – bottom section height from FFL  C – distance to side, top

<table>
<thead>
<tr>
<th>Minimum distance to side</th>
<th>A – distance to side</th>
<th>B – bottom section height from FFL</th>
<th>C – distance to side, top</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3D</td>
<td>215</td>
<td>440</td>
<td>215</td>
</tr>
<tr>
<td>H3-1 OD</td>
<td>215</td>
<td>225</td>
<td>215</td>
</tr>
<tr>
<td>H3-2 OD</td>
<td>241</td>
<td>231</td>
<td>241</td>
</tr>
<tr>
<td>H3 G</td>
<td>215</td>
<td>965</td>
<td>215</td>
</tr>
<tr>
<td>H3 OD RC 2</td>
<td>215</td>
<td>965</td>
<td>215</td>
</tr>
<tr>
<td>H6</td>
<td>215</td>
<td>270</td>
<td>215</td>
</tr>
<tr>
<td>H6 RC 2</td>
<td>215</td>
<td>965</td>
<td>215</td>
</tr>
<tr>
<td>H16</td>
<td>215</td>
<td>270</td>
<td>215</td>
</tr>
<tr>
<td>H16 G-1</td>
<td>215</td>
<td>965</td>
<td>215</td>
</tr>
<tr>
<td>H16 RC 2</td>
<td>215</td>
<td>965</td>
<td>215</td>
</tr>
<tr>
<td>STS / STU</td>
<td>215*</td>
<td>215*</td>
<td>215*</td>
</tr>
<tr>
<td>RS 55</td>
<td>215</td>
<td>225</td>
<td>215</td>
</tr>
<tr>
<td>H16 OD</td>
<td>265</td>
<td>500</td>
<td>470</td>
</tr>
<tr>
<td>D65, D65 OD</td>
<td>215</td>
<td>225</td>
<td>215</td>
</tr>
<tr>
<td>RC 2, RC 3, D65 OD</td>
<td>215</td>
<td>965</td>
<td>512</td>
</tr>
</tbody>
</table>

* Minimum distance to side of 160 mm also possible on request
The fixed top panel allows you to individually design room-high doors for your facility. They offer a harmonious look thanks to the surrounding vertical frame profiles.

All ventilation grilles consist of safety sheet metal with an internal perforated steel sheet. They are supplied galvanized and with powder-coated primer in Grey white (similar to RAL 9002).
### Overview of Glazings, Ventilation Grilles and Fixed Top Panels

<table>
<thead>
<tr>
<th>Glazing variations (see page 46 – 47)</th>
<th>H3D</th>
<th>H3 OD</th>
<th>H6</th>
<th>H16 OD</th>
<th>H16</th>
<th>H6S75</th>
<th>H16S</th>
<th>RS55</th>
<th>D65 OD</th>
<th>D65 OD</th>
<th>D65 OD</th>
<th>D65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rectangular glazing view 0</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rectangular glazing view 1</td>
<td>● (1)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Rectangular glazing view 2</td>
<td>● (1)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Rectangular glazing view 3</td>
<td>● (1)</td>
<td>● (1)</td>
<td>● (1)</td>
<td>● (1)</td>
<td>● (1)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Round glazing</td>
<td>● (1)</td>
<td>● (1)</td>
<td>● (1)</td>
<td>● (1)</td>
<td>● (1)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Diamond-shaped glazing</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glazing to choose</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Please note the maximum measurements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>○ ○ ○ ○</td>
<td>○ ○ ○ ○</td>
<td>○ ○ ○ ○</td>
<td></td>
</tr>
<tr>
<td>on page 47</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>○ ○ ○ ○</td>
<td>○ ○ ○ ○</td>
<td>○ ○ ○ ○</td>
<td></td>
</tr>
</tbody>
</table>

### Ventilation grille (see page 48)

<table>
<thead>
<tr>
<th>Standard</th>
<th>D65 OD</th>
<th>D65 OD</th>
<th>D65 OD</th>
<th>D65</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Fixed top panel (see page 48)

<table>
<thead>
<tr>
<th>Steel panel/fire protection panel</th>
<th>D65 OD</th>
<th>D65 OD</th>
<th>D65 OD</th>
<th>D65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glazing</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Types of glass

<table>
<thead>
<tr>
<th>Promaglass 30 clear, 17 mm (5)</th>
<th>D65 OD</th>
<th>D65 OD</th>
<th>D65 OD</th>
<th>D65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Promaglass 30 clear P4A, 21 mm (WK 2 / RC 2)(2)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Promaglass 60 clear, 21 mm (1)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Promaglass 90 clear, 37 mm (1)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>P6B safety glass, 18 mm (WK 2 / RC 2)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>P7B safety glass, 28 mm (WK 3 / RC 3)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Wired glass 6 mm*</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Insulated wired glass / laminated safety glass 20 mm*</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Laminated safety glass VSG 6 mm</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Single-pane safety glass ESG 6 mm</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Wired plate glass 7 mm*</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Wired compound security glass 6 mm*</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Prepared for on-site glass (6 mm or 20 mm)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### H3D | H3 OD | H6 | H16 OD | H16 | H6S75 | H16S | RS55 | D65 OD | D65 OD | D65 OD | D65 |

- ● Standard
- ○ Optional by glazing to choose
- (1) Not for break-in resistant doors
- (2) Up to WK 2 / RC 2
- (3) Only single-leaf
- (4) Up to WK 3 / RC 3
- (5) Not suitable for use outside or in direct sunlight

Glazings, ventilation grilles or fixed top panels are not available for break-in resistant doors with WK 4 / RC 4.
Fire-rated doors with glazings must be equipped with a door closer.
A fixed top panel is not possible with DryFix frames or corner and profile frames with diagonal fixing, as well as double-shell profile frames!
Thermal insulation values do not apply to doors with glazing or fixed top panels.

* Please note that the use of wired glass is not permitted as per workplace regulations and accident prevention regulations, depending on the building use.
Decor surfaces
For H3 OD and D65 OD

The UV-resistant film coating gives the door an authentic, natural timber look. The frame can optionally be powder-coated in the basic colour of the timber.
Special equipment
For barrier-free construction, an exclusive appearance and increased comfort
Hörmann automatic hinged doors with operator HDO 200 can be used in universal applications. Thanks to their quiet operation, they are particularly suitable for hospitals and offices. In addition, the automatic doors feature convenient opening, allowing for barrier-free passage. Speed control ensures a uniform opening and closing speed. An integrated programme switch allows for custom settings. You can conveniently operate the automatic door via a button, radar/movement detector or operating elements with BiSecur radio technology.

- Convenient opening for barrier-free passages
- Quiet operation, therefore suitable for many applications, e.g. in offices or hospitals
- Speed control ensures a uniform opening and closing speed
- Operating modes: “automatic”, “permanently open”, “night”, “closing time”
- Integrated programme switch for “off”, “automatic” and “permanently open”
- Operation via buttons, radar/motion detector, etc.
- Optionally with BiSecur radio technology that can be operated via all Hörmann hand transmitters, radio control elements, radio internal push buttons or BiSecur app

Door and operator from a single source
The door and operator are supplied as a perfectly matched all-in-one system. We supply the door and operator, including the required fitting material, from a single source. This simplifies and accelerates door fitting and commissioning.
Locks
In addition to the normal use of a door, the facility frequently requires special lock functions or additional locks. Optional special and additional locks:

- Anti-panic locks with different functions
- Double cylinder lock (locked with 2 different cylinders)
- Bolt lock, additionally prepared for profile cylinder
- Block lock
- Motor lock
- Anti-panic lock, self-locking

Electrical equipment
In the facility, door systems are often equipped with alarm, escape-route security or access control systems. Various components are available according to your needs:

- Latch contact
- Reed contact
- Electric door strikes
- Escape door opener
- Alarm wire mesh
- Motor lock
- Door lock
- Electronic alarm contact elements
- Concealed electro duct

Emergency exit locks
Panic door locks
Specific hardware and lock fittings are stipulated for escape doors according to DIN EN 179 and DIN EN 1125. Hörmann offers you a wide range of different equipment for your respective needs.

Emergency exit locks according to DIN EN 179
- Fittings in the form of anti-panic or lever/knob handle sets with short or rose escutcheon with matching handles
- Anti-panic lock DIN EN 179
- Self-locking or motorised anti-panic lock

Panic locks according to DIN EN 1125
- Fittings with a push bar or a touch bar combined with a variety of lever handle sets tested acc. to DIN EN 1125
- Anti-panic lock DIN EN 1125 with different functions
- Up to RC 3 (double-leaf) or RC 4 (single-leaf)
With compensator function, smoke sensor control or electromechanical hold-open device – Hörmann offers the right overhead door closer with the corresponding equipment for every door situation. The products convince not only when it comes to quality, but also comfort and design.

**HDC 35**
Standard slide rail door closer for single-leaf doors

**TS 4000**
Linkage door closer with restrained opening

**TS 5000**
Slide rail door closer

**TS 5000 EC-Line**
Slide rail door closer with optimum passage convenience and a high closing force

**TS 5000 ISM**
Slide rail door closer with integrated door leaf selector for double-leaf doors

**TS 5000 E**
Slide rail door closer with electromechanical hold-open device

**TS 5000 E-FS**
Slide rail door closer with compensator function

**TS 5000 R**
Slide rail door closer with electromagnetic hold-open device and smoke sensor control

**TS 5000 R-FS**
Slide rail door closer with compensator function and smoke sensor control

**TS 5000 E-ISM**
Slide rail door closer with electromechanical hold-open device and integrated door leaf selector for double-leaf doors

**TS 5000 R-ISM**
Slide rail door closer with electromagnetic hold-open device and smoke sensor control and integrated door leaf selector for double-leaf doors
TS 83
Linkage door closer

TS 93
Slide rail door closer

TS 93 GSR
Slide rail door closer with door leaf selector and continuous slide rail

TS 93 EMF / EMR
Slide rail door closer with electromagnetic hold-open device and smoke sensor control

TS 93 GSR EMF2
Slide rail door closer with door leaf selector and electromechanical hold-open device in both leaves

TS 93 GSR EMR2
Slide rail door closer with door leaf selector, electromagnetic hold-open device in both leaves and integrated smoke switch control unit

ITS 96
Integrated slide rail door closer

ITS 96 GSR
Integrated slide rail door closer with door leaf selector

ITS 96 EMF
Integrated slide rail door closer with electromechanical hold-open device

TS 99 FL
Slide rail door closer with door leaf selector, electromechanical hold-open device in the fixed leaf and additional compensator function in the traffic leaf

TS 99 FLR
Slide rail door closer with door leaf selector, electromechanical hold-open device in the fixed leaf and additional compensator function in the traffic leaf and smoke switch control unit
Hörmann multi-function doors are available as standard with a black plastic handle with short escutcheon, prepared for profile cylinder and deadlock key (not shown). Optionally, we supply our multi-function doors with high-quality object lever handle sets made of aluminium or stainless steel from the factory.

**FS lever handle set D-110**
With object sliding bearing in aluminium or stainless steel
With object ball bearing in stainless steel

**FS lever handle set D-190**
With object sliding bearing in stainless steel

**FS lever handle set D-210**
With object sliding bearing in aluminium or stainless steel

**FS lever handle set D-310**
With object sliding bearing in aluminium or stainless steel
With object ball bearing in stainless steel

**FS lever handle set D-330**
With object sliding bearing in aluminium or stainless steel
With object ball bearing in stainless steel

**FS lever handle set D-410**
With object sliding bearing in aluminium or stainless steel
With object ball bearing in stainless steel

**FS lever handle set D-490**
With object ball bearing in stainless steel

**FS lever handle set D-510**
With object sliding bearing in aluminium or stainless steel
With object ball bearing in stainless steel
Hörmann push bar
- The largely offset lever arm for use in electronic locking cylinders and for short distances between PC
- Very stable bar handle
- Surfaces: stainless steel, coated with silver aluminium F1, coated black/red (based on EPN 900 IV Alu)
- Tested in accordance with EN 1125, EN 1634, EN 1191

Hörmann touch bar
- Can be used as a locking system acc. to EN 1125
- Surface finish: stainless steel, aluminium F1, coated
- Tested in accordance with EN 1125, EN 1634

Floor door stop BS
Stainless steel
- Door stop BS 55
- Door stop BS 44
- Door stop BS 45
- Door stop BS 65

Wall door stop WS
Stainless steel
- Door stop WS 46
- Door stop WS 96
- Door stop WS 76
- Door stop WS 82
### Door Sizing

**3-sided all-round frame (doors / hatches)**

<table>
<thead>
<tr>
<th>BR width</th>
<th>BR height</th>
</tr>
</thead>
<tbody>
<tr>
<td>-82</td>
<td>-42</td>
</tr>
</tbody>
</table>

**4-sided all-round frame (door)**

<table>
<thead>
<tr>
<th>BR width</th>
<th>BR height</th>
</tr>
</thead>
<tbody>
<tr>
<td>-82</td>
<td>-70</td>
</tr>
</tbody>
</table>

**4-sided all-round frame (hatch)**

<table>
<thead>
<tr>
<th>BR width</th>
<th>BR height</th>
</tr>
</thead>
<tbody>
<tr>
<td>-82</td>
<td>-82</td>
</tr>
</tbody>
</table>

**Doors / hatches with corner frame / DryFix frame / corner with counter frame / 1-part profile frame**

<table>
<thead>
<tr>
<th>Clear frame dimension</th>
<th>Overall frame dimension</th>
<th>Structural opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>-90</td>
<td>+64</td>
<td>+0 to 20</td>
</tr>
</tbody>
</table>

**Doors / hatches with double-shell profile frame**

<table>
<thead>
<tr>
<th>Clear frame dimension</th>
<th>Overall frame dimension</th>
<th>Structural opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>-146</td>
<td>+64</td>
<td>+0 to 20</td>
</tr>
</tbody>
</table>

Doors and hatches with profile frames for partition walls: Nominal size = structural opening

All dimensions in mm.

### 3-sided all-round frame (doors / hatches) vs. 4-sided all-round frame (doors / hatches)

<table>
<thead>
<tr>
<th>3-sided all-round frame (doors / hatches)</th>
<th>4-sided all-round frame (doors / hatches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZAM width</td>
<td>ZAM height</td>
</tr>
<tr>
<td>-146</td>
<td>-73</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3-sided all-round frame (doors / hatches)</th>
<th>4-sided all-round frame (doors / hatches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZAM width</td>
<td>ZAM height</td>
</tr>
<tr>
<td>+10 to 20</td>
<td>+20</td>
</tr>
</tbody>
</table>

Doors / hatches with block frame (fitting in the opening)

<table>
<thead>
<tr>
<th>Clear frame dimension</th>
<th>Structural opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>-146</td>
<td>+10 to 20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clear frame dimension</th>
<th>Structural opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10 to 20</td>
<td>+20</td>
</tr>
</tbody>
</table>

All dimensions in mm.
### Clear passage widths

At an opening angle of 90°, without fittings

#### Single-leaf door

![Diagram of a single-leaf door with clear passage and BRM width]

#### Double-leaf door

![Diagram of a double-leaf door with clear passage and BRM width]

#### Door leaf thickness

<table>
<thead>
<tr>
<th>Door leaf thickness</th>
<th>Single-leaf door</th>
<th>Double-leaf door</th>
<th>Double-leaf door, traffic leaf</th>
</tr>
</thead>
<tbody>
<tr>
<td>45 mm, thin rebate</td>
<td>BRB – 93</td>
<td>BRB – 104</td>
<td>BRB – 95</td>
</tr>
<tr>
<td>55 mm, thick rebate</td>
<td>BRB – 93</td>
<td>BRB – 104</td>
<td>BRB – 95</td>
</tr>
<tr>
<td>55 mm, thin rebate</td>
<td>BRB – 103</td>
<td>BRB – 124</td>
<td>BRB – 109</td>
</tr>
<tr>
<td>65 mm, thick rebate</td>
<td>BRB – 103</td>
<td>BRB – 124</td>
<td>BRB – 109</td>
</tr>
<tr>
<td>65 mm, thin rebate</td>
<td>BRB – 113</td>
<td>BRB – 144</td>
<td>BRB – 109</td>
</tr>
<tr>
<td>65 mm, flush</td>
<td>BRB – 107</td>
<td>BRB – 132</td>
<td>BRB – 103</td>
</tr>
<tr>
<td>75 mm, thick rebate</td>
<td>BRB – 105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>78 mm, thin rebate</td>
<td>BRB – 170</td>
<td>BRB – 170</td>
<td>BRB – 122</td>
</tr>
</tbody>
</table>

All dimensions in mm
## Technical details

### Main function

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
</table>

**Standard**
- T30 fire-retarding

**Standard additional function**
- **Thermal insulation** $U_q = \text{W/(m²·K)}$:
  - H3D: 1.9
  - H3 OD: 1.2
  - H3 G: 1.2
  - H3 VM: 1.3
  - H3 KT: 2.0
  - H6: 2.0
  - H16 OD: 1.9

**Additional functions with corresponding equipment**

#### Smoke protection

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
</table>

#### Acoustic rating (dB)

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
</table>

#### Break-in-resistant (WK 2/RC 2)

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>●●●●●</td>
<td>●●●●</td>
<td>●●●●</td>
<td>●●●●</td>
<td>●●●●</td>
<td>●●●●</td>
<td>●●●●</td>
</tr>
</tbody>
</table>

#### Break-in-resistant (WK 3/RC 3)

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>●●●</td>
<td>●●●</td>
<td>●●●</td>
<td>●●●</td>
<td>●●●</td>
<td>●●●</td>
<td>●●●</td>
</tr>
</tbody>
</table>

#### Break-in-resistant (WK 4/RC 4)

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
</tr>
</tbody>
</table>

### Door leaf

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf thickness</td>
<td>45</td>
<td>65/59</td>
<td>65/59</td>
<td>65/59</td>
<td>65</td>
<td>65/59</td>
</tr>
<tr>
<td>Sheet thickness</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0/1.5</td>
<td>1.0/1.5</td>
<td>1.5</td>
<td>1.0/1.5</td>
</tr>
</tbody>
</table>

#### Rebate type

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thin rebate</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Thick rebate</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Flush</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
</tbody>
</table>

#### Frame variants

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corner frame</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Counter frame</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>DryFix frame</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Profile frame (double-shell)</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Profile frame</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Block frame for fitting in the opening</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
</tbody>
</table>

### Approved for fitting to:

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brickwork</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Concrete</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Gas concrete, stone slabs or concrete precision blocks</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Gas concrete slabs, reinforced, horizontal or vertical</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Prefabricated walls made of gypsum boards</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
<td>● ● ●</td>
</tr>
</tbody>
</table>

### Nominal size

#### Width

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>625</td>
<td>625</td>
<td>500</td>
<td>625</td>
<td>1375</td>
<td>625</td>
<td>500</td>
</tr>
<tr>
<td>1125</td>
<td>1250</td>
<td>1500</td>
<td>2500</td>
<td>1500</td>
<td>2500</td>
<td>1125</td>
</tr>
</tbody>
</table>

#### Height

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1750</td>
<td>1750</td>
<td>1750</td>
<td>1750</td>
<td>2500</td>
<td>2500</td>
<td>1750</td>
</tr>
<tr>
<td>2250</td>
<td>1749</td>
<td>2500</td>
<td>2500</td>
<td>3250</td>
<td>2500</td>
<td>2250</td>
</tr>
</tbody>
</table>

### Door set with fixed top panel

<table>
<thead>
<tr>
<th>H3D</th>
<th>H3 OD</th>
<th>H3 G</th>
<th>H3 VM</th>
<th>H3 KT</th>
<th>H6</th>
<th>H16 OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum door set height BR</td>
<td>3500</td>
<td>3500</td>
<td>3500</td>
<td>3500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum door leaf height</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**All dimensions in mm**
<table>
<thead>
<tr>
<th>H16 OD</th>
<th>H16</th>
<th>H16 G</th>
<th>HS 75</th>
<th>H16 S</th>
<th>RS55</th>
<th>D65 OD</th>
<th>D65</th>
</tr>
</thead>
<tbody>
<tr>
<td>T90 fire-proof</td>
<td>T90 fire-proof</td>
<td>T90 fire-proof</td>
<td>High acoustic rating</td>
<td>High acoustic rating</td>
<td>Smoke-tight</td>
<td>Break-in-resistant</td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>1.3</td>
<td>1.8</td>
<td>1.7</td>
<td>1.8</td>
<td>2.1</td>
<td>2.1</td>
<td>1.9</td>
</tr>
<tr>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>65</td>
<td>65</td>
<td>65</td>
<td>65</td>
<td>78</td>
<td>75</td>
<td>75</td>
<td>55</td>
</tr>
<tr>
<td>1.0 / 1.5</td>
<td>1.0</td>
<td>1.0 / 1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0 / 1.5</td>
</tr>
<tr>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>625</td>
<td>1375</td>
<td>625</td>
<td>1375</td>
<td>875</td>
<td>1500</td>
<td>625</td>
<td>1375</td>
</tr>
<tr>
<td>–</td>
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<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1250</td>
<td>2500</td>
<td>1250</td>
<td>2500</td>
<td>1500</td>
<td>3000</td>
<td>1250</td>
<td>2500</td>
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<td>1750</td>
<td>1750</td>
<td>1750</td>
<td>1750</td>
<td>2000</td>
<td>2000</td>
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<td>–</td>
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<td>–</td>
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</tr>
<tr>
<td>2500</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
<td>3250</td>
<td>3250</td>
<td>2250</td>
<td>2250</td>
</tr>
<tr>
<td>3500</td>
<td>3500</td>
<td>3500</td>
<td>3500</td>
<td>3500</td>
<td>3500</td>
<td>3500</td>
<td>3500</td>
</tr>
</tbody>
</table>

All dimensions in mm
Hörmann product range
Everything from a single source for your construction project
Quick service with testing, maintenance and repairs
Our extensive service network means that we are always nearby and at your service around the clock.

1. Sectional doors
2. Rolling shutters and rolling grilles
3. High-speed doors
4. Loading technology
5. Steel and stainless steel sliding doors
6. Steel and aluminium multi-function doors
7. Steel and stainless steel doors
8. Steel frames with high-quality timber function doors from Schörghuber
9. Fully glazed tubular frame parts
10. Automatic sliding doors
11. Visibility window
12. Collective garage 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-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