NEW
Steel fire-rated door H3 KT for use in exterior walls

Steel fire-rated door H3 KT
ALLGEMEINE BAUAUFSICHTLICHE ZULASSUNG
DIBt

Steel Multi-Function Doors

Fire-rated and smoke-tight doors

Acoustic-rated doors

Security doors

Multi-purpose doors

HÖRMANN

T30 T60 T90 RS dB WK RC MZ

Image on left:
Löhne fire station with T30 fire-rated doors H3

Brand-name quality for top safety and reliability

ThyssenKrupp Quartier in Essen with Hörmann products

In-house product development

Growing and constantly changing functional and safety requirements necessitate continuous new construction and 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

Hörmann relies 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 in the fire protection classes T30, T60, T90. Smoke protection, acoustic insulation and burglar proofing in the resistance classes WK 2, 3 and 4. Hörmann's expertise in fire-protection is not just restricted to Germany. Several designs correspond to the "British Standard" and are thus approved for use in large parts of the Commonwealth. Hörmann also has obtained approvals for countries like France, Italy, Austria, Switzerland, Russia, Poland, Hungary and Slovenia. 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. Please contact us if you would like to find out more.

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 product door program

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

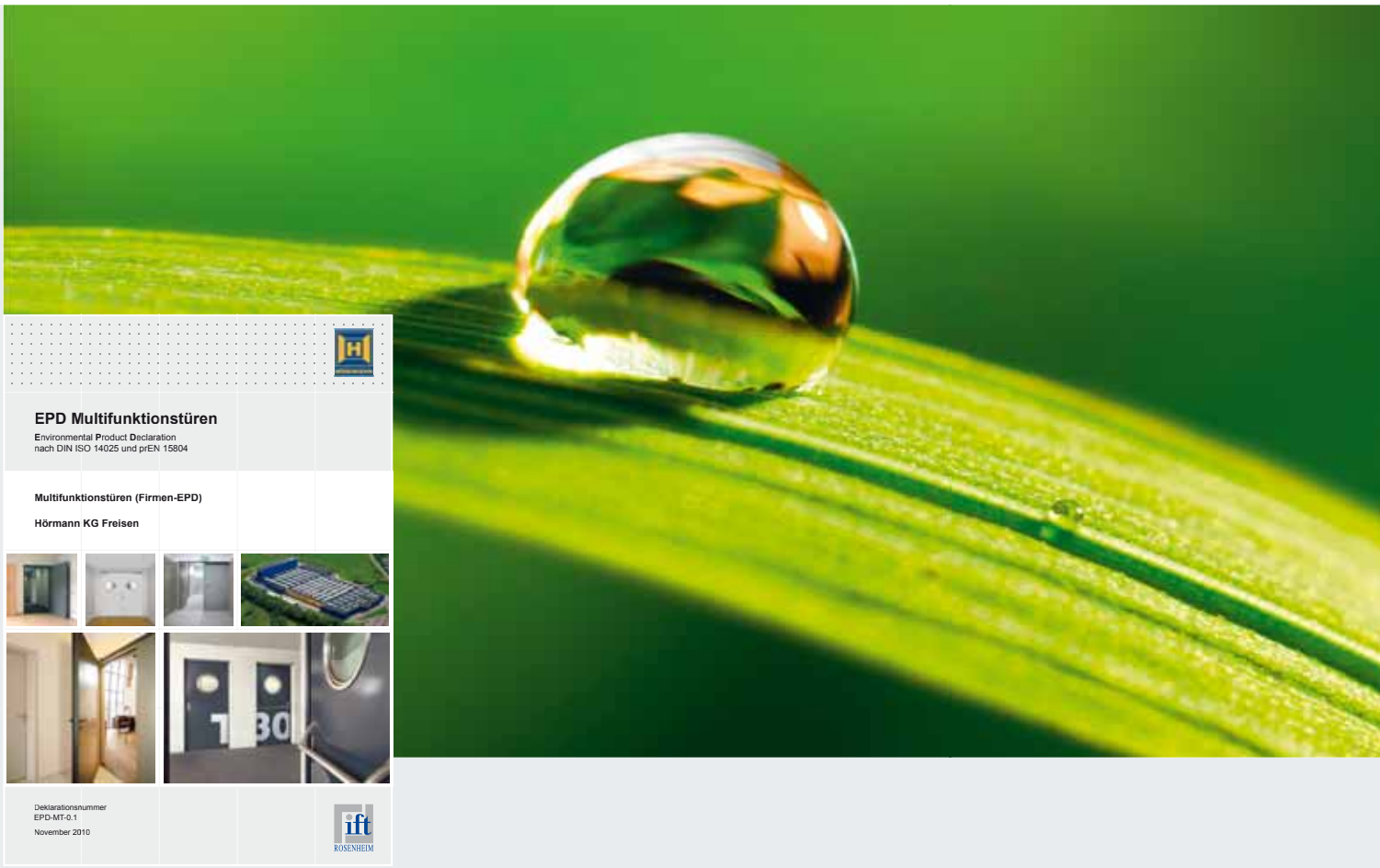
Hörmann's aluminium and steel fire-rated / smoke-tight doors and glazings in the T30, T60 and T90 models will convince you with certified safety, perfect function and a 100 % matching appearance. With Hörmann automatic sliding doors, you are combining the transparency of tubular frame parts with the 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.

Image on left:
EON Head Office, Essen (Germany) with Hörmann products

Sustainable production for trend-setting construction



Sustainability documented and approved by the ift in Rosenheim

Hörmann has already received confirmation of the sustainability of all its multi-function doors through an environmental product declaration (EPD)* in accordance with ISO 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 ISO 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 fully finished on-site with limited-VOC paints or primers.
- **Regional raw materials**
  The majority of applied raw materials is purchased from Germany and central Europe.
- **Durable, low maintenance products**
  Approved in a functional test with more than 200,000 closing cycles.

Sustainable construction with Hörmann's expertise

Hörmann has already 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.

breeam

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

Institut Bauen und Umwelt e.V.

© ift Rosenheim

U.S. GREEN BUILDING COUNCIL LEED CERTIFIED USGBC

* For more information please visit our Internet site at www.hoermann.co.uk

Hörmann:
Your specialist for standard and special doors

Door description	Version	Page	Functions: Matching system appearance	T30 fire-retarding	T60 high fire resistance	T90 fire-proof	Smoke-tight	Acoustic-rated	Break-in-resistant, resistance class 2	Break-in-resistant, resistance class 3	Break-in-resistant, resistance class 4	Use in exterior walls	DIN EN 14351-1	ATEX
H3D	Single-leaf	19	■	■			●	●	●					●
H3D	Double-leaf	19	■	■			●	●						●
H3	Single-leaf	20	■	■			●	●	●	●	●			●
H3 G	Single-leaf	20	■	■			●							●
H3 hatch	Hatch	20	■	■			●	●						●
H3	Double-leaf	21	■	■			●	●	●	●				●
H3 G	Double-leaf	21	■	■			●							●
H3 KT	Single-leaf	22	■	■				●	●			●		
H6	Single-leaf	23	■		■		●	●	●					●
H6	Double-leaf	23	■		■		●	●	●					●
H6 hatch	Hatch	23	■		■		●	●						●
H16	Single-leaf	24	■			■	●	●	●	●	●			●
H16 G	Single-leaf	24	■			■	●							●
H16 hatch	Hatch	24	■			■	●	●						●
H16	Double-leaf	25	■			■	●	●	●					●
H16 G	Double-leaf	25	■			■								●
RS55	Single-leaf	27	■				■	●						●
RS55	Double-leaf	27	■				■	●						●
HS75	Single-leaf	29	■				●	■	●					●
H16 S	Single-leaf	29	■			■	■	■	●					●
E45	Single-leaf	31	■					●	■			●	●	●
E45	Double-leaf	31	■					●	■			●	●	●
E55	Single-leaf	33	■				●	●	■			●	●	●
E65	Single-leaf	35	■				●	●		●	●	●	●	●
E65	Double-leaf	35	■				●	●		●		●	●	●
D45	Single / double-leaf	37	■					●				●	●	●
D55	Single / double-leaf	38	■					●				●	●	●
D65	Single / double-leaf	39	■									●	●	●

■ Main function – as standard

● Additional function – with corresponding equipment (see page 11)

The Hörmann steel door range: Everything is possible

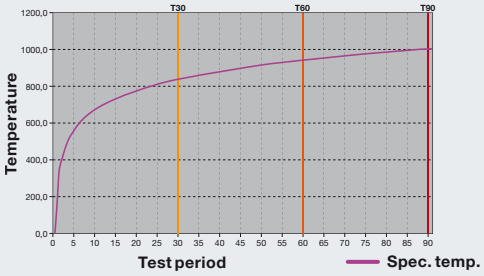
T30 **Fire-retarding**
DIN 4102 / DIN EN 1634

T60 **High fire resistance**
DIN 4102 / DIN EN 1634

T90 **Fire-proof**
DIN 4102 / DIN EN 1634

Fire-retarding steel doors are tested according to DIN 4102-T5 or DIN EN 1634-1 and officially approved. In fire tests, these doors must resist temperatures according to the temperature / time curve for at least 30 minutes (T30), 60 minutes (T60) and 90 minutes (T90).

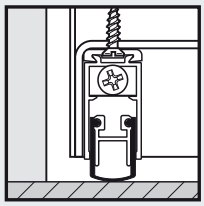
Temperature / time curve according to DIN 4102 / DIN EN 1634-1



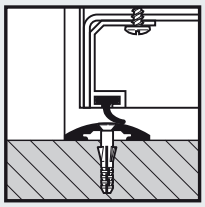
RS **Smoke-tight**
DIN 18095

Smoke-tight doors are tested in accordance with DIN 18095 or DIN EN 1634-3 and must be equipped with one of the door seals shown on the right and a door closer. Another requirement is that smoke-tight doors have to be equipped with a profile cylinder (a blind cylinder can also be used). The surface edges of the frame must be permanently sealed to both sides of the building structure. Sealing may not be necessary for plastered frames.

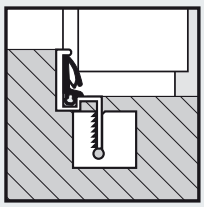
Door bottom seals
In addition to the use in smoke-tight and acoustic-rated doors, these door bottom seals are also available as special equipment for other door types.



Bottom seal, retractable



Aluminium bottom profile with seal, frame with stepped threshold



Threshold rail with seal (only for acoustic-rated doors)

dB **Acoustic-rated**
DIN EN ISO 717-1

Acoustic rating category:
II up to 41 dB
III from 42 dB

Door sets with acoustic insulation according to DIN EN ISO 717-1
Acoustic insulation is only possible with the right planning and version, and is dependent on the surrounding structural components. The acoustic insulation of the wall and door must be derived separately, as it cannot be assumed from the assessed acoustic rating RW or R of the door alone. All of the indicated acoustic values are laboratory values.
Calculation for acoustic value on site: laboratory value – 5 dB. The indicated values can only be reached with frames filled completely with mortar and do not apply to doors with glazing and fixed top parts.
High-acoustic-rating doors (HS75, H16 S) can be used to attain acoustic values of up to 61 dB. For this, the doors must be equipped with two retractable bottom seals (escape routes, up to 59 dB) and additionally an optional threshold rail (up to 61 dB).

Aluminium bottom profile with seal, frame with 5 mm-high threshold may not be used in hospitals or nursing homes. Threshold profiles with seals are not approved for escape and rescue routes and cannot be used in hospitals and nursing homes.

On top of their main function, Hörmann doors offer you additional multiple functions. Depending on their features, they offer acoustic rating and / or break-in resistance – according to your wishes.

Ordered in correlation with the resistance class

DIN EN V 1627	DIN EN 1627
WK 2	RC 2
WK 3	RC 3
WK 4	RC 4

Break-in-resistant according to DIN EN 1627

The DIN EN 1627ff series of standards took effect in September 2011 for break-in-resistant doors. Hörmann break-in-resistant doors have been tested and classified in accordance with the European specifications of the prestandards DIN V ENV 1627 to 1630 since 1999. They are also voluntarily subjected to quality monitoring by an accredited test and certification authority and are recommended by the police.

Equipment	WK 2 / RC 2	WK 3 / RC 3	WK 4 / RC 4
Mortice lock, prepared for profile cylinder, lever / knob, DIN 18250	●		
5-point locking system as a bolt / swing bolt combination		●	
7-point locking system as a bolt / swing bolt combination			●
With double-leaf doors, fixed leaf with secured rebate bolt lock, locking upwards and downwards	●	●	
Alu-FS lever / knob handle set DIN 18257			
- Class ES 1 with short escutcheon and pull-off protection	●		
- Class ES 2 with long escutcheon and pull-off protection		●	
- Class ES 3 with long escutcheon and pull-off protection			●
Profile cylinder DIN 18252, drill-proof on both sides, 3 keys and security certificate	●	●	●
Security bolts per leaf, leverage-proof, double-leaf doors additionally with secured hinge bolts	3 – 5	5 – 7	5 – 7

ATEX

Atmospheric **ex**plosion protection serves to control explosion protection for industry and mining in Europe. According to ATEX 94 / 9 / EC, doors represent a type of equipment that is a potential source of fire. This applies to doors as such, and also applies to all components that can be built into or attached to doors. Hörmann multi-function doors made of steel are certified to ATEX 94 / 9 / EC and can be used in zones 1 and 21 as well as zones 2 and 22, depending on their equipment.

Use in exterior walls

External doors are suitable for installation in outer walls. Security doors and multi-purpose doors are delivered with a CE mark according to DIN EN 14351-1.

Matching looks down to the last detail

Independent of their functions, all doors have a perfectly matched appearance. The result is a harmonious overall look.

Thin rebate

Thick rebate

1 Rebate type
Hörmann multi-function doors are available with a thin rebate (standard) or a thick rebate.

2 Surface
Door leaves and frames are galvanized and powder-coated in Grey white (similar to RAL 9002). Optionally available in RAL to choose. Fitting with a DryFix frame or double-shell profile frame is recommended.

3 Lock
Hörmann steel doors are equipped as standard with a lever / knob mortice lock and prepared for a profile cylinder in accordance with DIN 18250. Break-in resistant doors rated WK 3 / RC 3 and higher are fitted with a multiple locking system. With double-leaf doors, the fixed leaf is secured with a latch in rebate or a rebate locking bolt at the top and bottom depending on the function.

4 Lever handle set
Hörmann steel doors are equipped as standard with an FS round lever handle set according to DIN 18273 in black (polypropylene), with a short escutcheon, a securely fitted knob and a deadlock insert with a key. Break-in resistant doors are supplied with an FS security lever / knob handle set according to DIN 18257, class ES 1 (with short escutcheon) or ES 2 / ES 3 (with long escutcheon).

The shown door contains special equipment.

5 Closing devices

Fire-rated and smoke-tight doors close automatically as standard. With single-leaf doors, a spring hinge closes the door. Depending on the size, features, use or fitting style, the factory can also supply you with single-leaf doors with the exclusive HDC 35 slide rail door closer and double-leaf doors with linkage door closers and door leaf selector. Please refer to page 45 for other locking systems.

Exclusive HDC 35 slide rail door closer
for single-leaf doors (also for double-leaf doors on request).

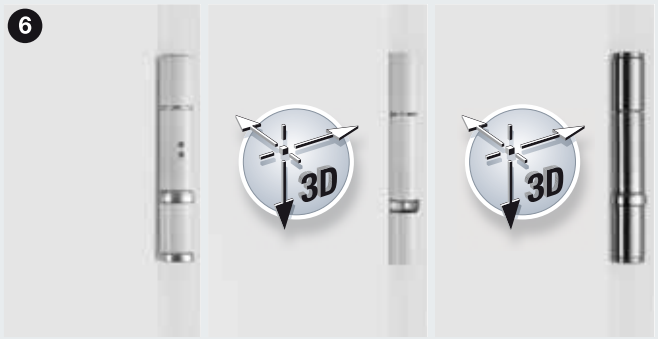
Linkage door closer for double-leaf doors.

6 Hinges

Hörmann multi-function doors are supplied with heavy-duty ball-bearing hinge sets. Depending on the size of the door, each door leaf is fitted with 2 or 3 sets of hinges. Stainless steel hinge sets can also be supplied for a sophisticated look (not for resistance class WK 4 / RC 4).

Optional 3-D hinges

3-way adjustable hinges are especially suited for the fine-tuning and subsequent adjustment of the door. They allow you to balance out minor fitting tolerances. Available galvanized, powder-coated or in stainless steel.



Standard hinge | 3-D hinge galvanized and primed | 3-D stainless steel hinge

7 Security bolts

On fire-rated and smoke-tight doors, steel security bolts on the hinge side provide additional stability in the case of a fire. Break-in-resistant door models according to DIN EN 1627 are secured on the hinge side against being levered open by up to 7 solid steel security bolts per door leaf, depending on the resistance class.

Security bolts

Frame system

Flexible, versatile and quickly fitted

The Hörmann frame system guarantees a stable wall connection for optimal and long-lasting door functionality.

Advantages at a glance:

- Sheet thickness 2 mm
- Floor recess 30 mm*
- 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

Easy, fast fitting with the DryFix frame

The Hörmann DryFix frame is fully prepared at the factory and already backfilled with mineral wool. This saves up to 50 % of the required fitting time at the construction site. Dry fitting also reduces the risk of soiling or damaging the frame or brickwork. The diagonal fixing facilitates fitting and is concealed in the frame rebate. It is also easy to retrofit.

See the fitting video at:
http://www.hoermann.co.uk/videos

Advance delivery

To allow flexible fitting, we can also deliver the frames for high-quality construction project doors including 3-D hinges in advance. This gives you more freedom in planning the fitting.

- The frames, as well as the 3-D hinges, can already be fitted during construction.
- The door leaf is fitted after construction, helping to avoid damage and soiling.

Edge guard as standard

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.

Flush-fitting cover caps

Flush-fitting cover caps for fastening holes (1), unpainted (2), painted (3) and levelled out and painted (4).

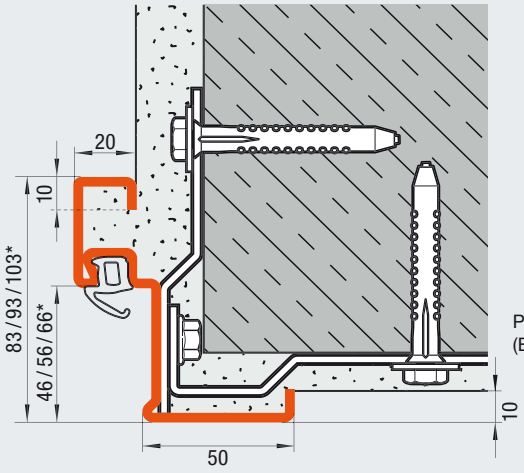
Flush-fitting cover caps

In frames that are fitted in the reveal, flush-fitting cover caps ensure the nice appearance of the frame. They can be painted over and thus completely hidden.

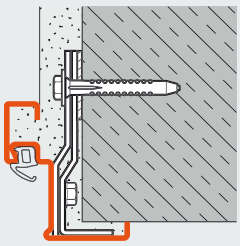
* DryFix and dry construction frames for finished floor

Corner frame

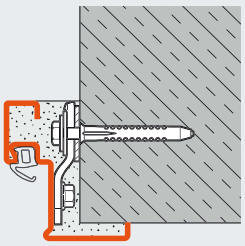
The standard frame, optionally with diagonal fixing



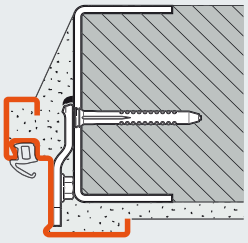
Plug-and-screw fitting
(Brickwork / concrete)



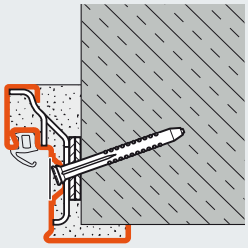
Plug-and-screw fitting in the reveal
(Brickwork / concrete)



Concealed plug-and-screw fitting
(Unplastered brickwork / concrete)



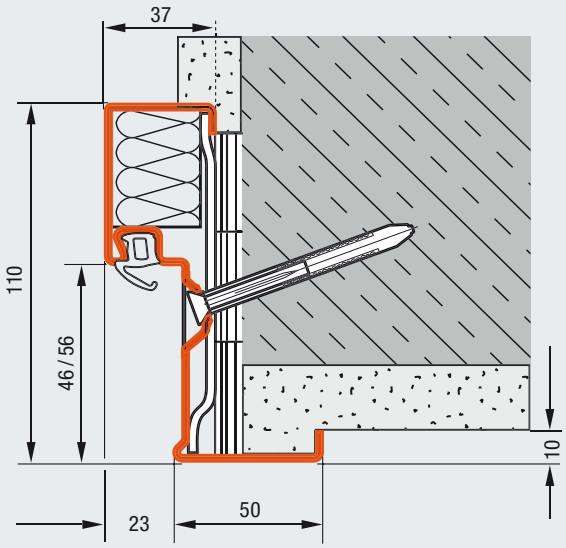
Fitting by welding
(Gas concrete)



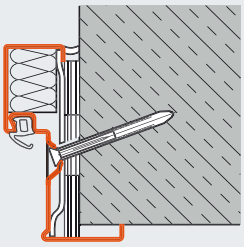
Diagonal fixing
(Brickwork / unplastered
brickwork / concrete)

DryFix frame

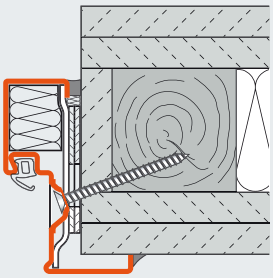
Ex factory already fully prepared for simple and fast fitting



Diagonal
fixing
(Brickwork)



Diagonal fixing
(Unplastered brickwork / concrete)

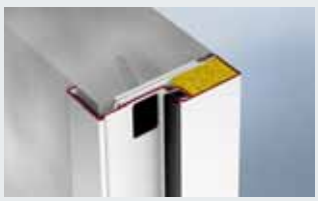


Diagonal fixing
(F90 B timber partition walls)

Easy, fast fitting

Place the frame in the opening
and align it

Tighten frame



Seal the connection gap and
cover up the fastening holes

All dimensions in mm.

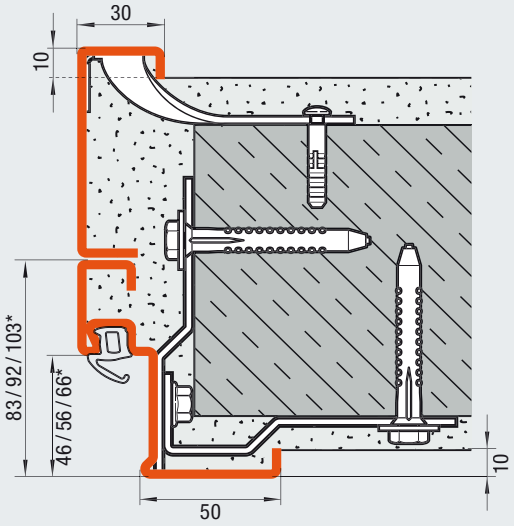
* Dependent on the door leaf thickness and rebate type

Frame system

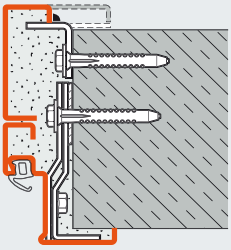
Flexible, versatile and quickly fitted

Corner and counter frame

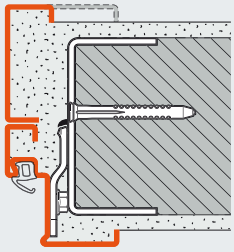
For great flexibility during fitting



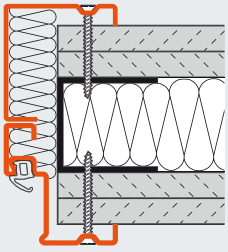
Plug-and-screw fitting (Brickwork / concrete)



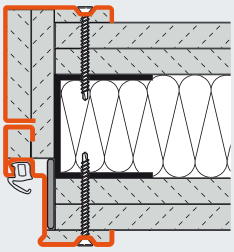
Concealed plug-and-screw fitting (Unplastered brickwork / concrete)



Fitting by welding (Gas concrete)



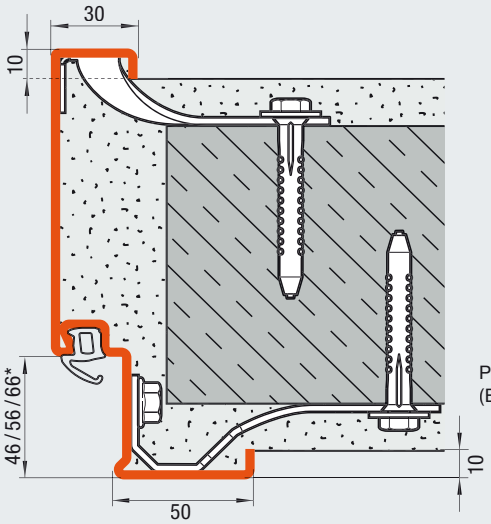
Screw fixing (T30 partition walls)



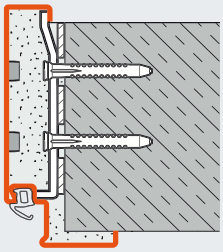
Screw fixing (T90 partition walls)

Profile frame

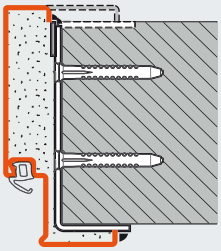
In various versions, depending on the fitting situation



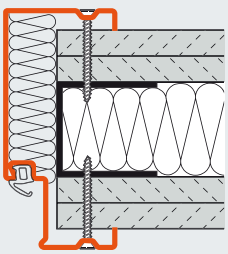
Plug-and-screw fitting (Brickwork / concrete)



Plug-and-screw fitting through the frame reveal (Unplastered brickwork / concrete)



Fitting by welding (Gas concrete / unplastered brickwork)



Screw fixing (T30 partition wall, T90 partition wall not shown)

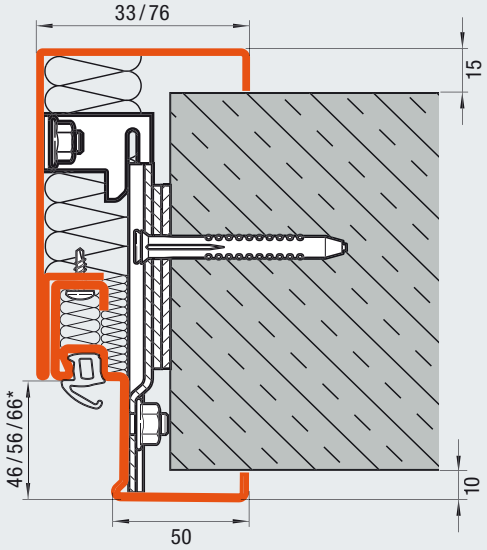
Diagonal fixing (Brickwork)

All dimensions in mm.

* Dependent on the door leaf thickness and rebate type

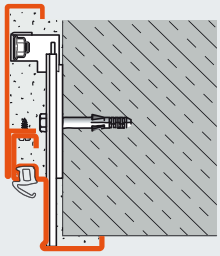
Double-shell profile frame

For brickwork and partition walls

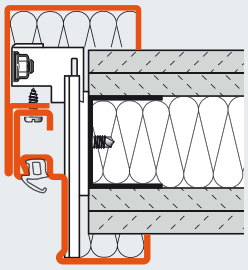


Concealed plug-and-screw fitting with mineral wool backfill (Brickwork / unplastered brickwork / concrete)

The double-shell frame system is particularly suited for subsequent fitting. It is fastened with screws concealed in the frame rebate. With a depth of 76 mm opposite the hinge side, the frame can be filled with mineral wool on-site. You can optionally receive suitably shaped parts from the factory.



Concealed plug-and-screw fitting with mortar backfill (Brickwork / unplastered brickwork / concrete)



Concealed plug-and-screw fitting with mineral wool backfill (Partition wall) F90-A and F90-B (shown: F90-A)

Concealed fitting

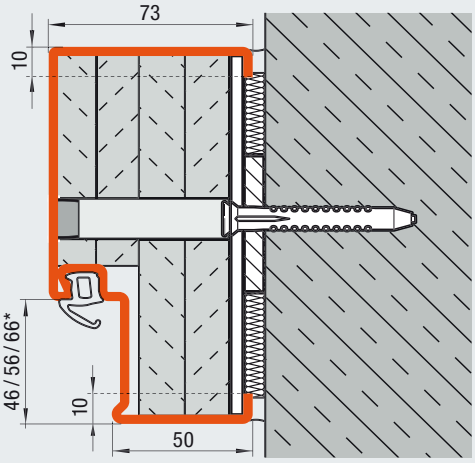
Place profile 1 of the frame in the opening and align it

Fix profile 1 with the grouting lug

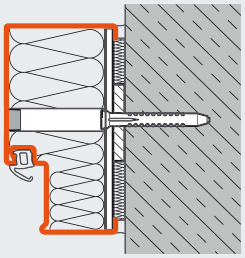
Screw profile 2 of the frame to profile 1 through the sealing groove and cover with the door sealing

Block frame

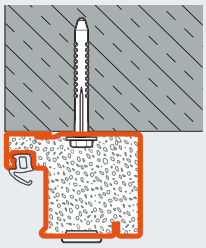
With flush-fitting cover caps as standard



Concealed plug-and-screw fitting (Brickwork / concrete)



Concealed plug-and-screw fitting in the opening (Brickwork / concrete)



Concealed plug-and-screw fitting in front of the opening (brickwork / max. T30 doors)

All dimensions in mm.

* Dependent on the door leaf thickness and rebate type

Tower 185, Frankfurt
Architect: Christoph Mäckler Architekten, Frankfurt am Main

Pre-certified by
DGNB
Deutsche Gesellschaft für Nachhaltiges Bauen e.V.
German Sustainable Building Council

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

T30 fire-rated door
H3D
Single and double-leaf

Thin rebate
Door leaf thickness
45 mm

Main function

T30

Fire-retarding

Additional functions
(with corresponding equipment, see pages 10 – 11)

RS

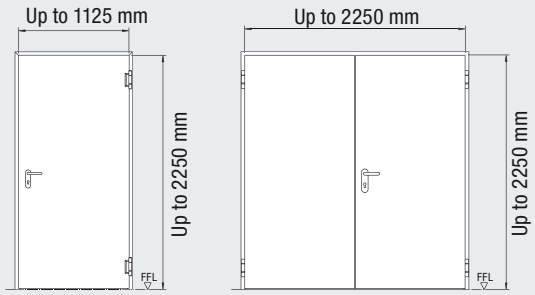
Smoke-tight

dB

Acoustic-rated
Acoustic values
from 37 – 44 dB

WK 2

Break-in-resistant
H3D-1



Fire-rated door	H3D-1		H3D-2
Door leaf	45 mm		45 mm
Sheet thickness	1.0 mm		1.0 mm
Rebate type	Thin rebate		Thin rebate
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
Partition walls	≥ 95 mm		≥ 95 mm
Size and function-dependent requirements for walls see page 50			
Additional functions / performance characteristics			
Thermal insulation U_D	1.9 W/(m²·K)		2.0 W/(m²·K)
Acoustic rating category	**II**	**III**	**II**
With bottom profile with seal	41 dB	-	38 dB
With retractable bottom seal	37 dB	-	37 dB
With threshold rail with seal	-	44 dB	40 dB

Optional extras

	H3D-1		H3D-2	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	625 – 1125	1750 – 2250	1375 – 2250	1750 – 2250
Traffic leaf width			750 – 1125	
Fixed leaf width			500 – 1125	

All dimensions in mm

T30 fire-rated door
H3
Single-leaf

Thin rebate
Door leaf thickness
55 / 65 mm

Thick rebate
Door leaf thickness
55 mm

Main function

Fire-retarding

T30

Additional functions
(with corresponding equipment, see pages 10 – 11)

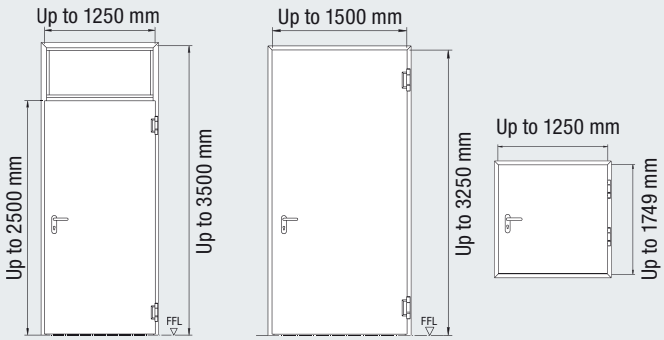
RS **Smoke-tight**

dB **Acoustic-rated**
Acoustic values
from 38 – 46 dB

WK 2 **Break-in-resistant**
Up to 1250 × 2500 mm

WK 3 Up to 1250 × 2500 mm, thick rebate, door leaf thickness 65 mm

WK 4 Up to 1250 × 2500 mm, sheet thickness 1.5 mm, thick rebate, door leaf thickness 65 mm



Fire-rated door / fire hatch	H3-1		H3 G-1	H3 hatch
Door leaf	55 mm		65 mm	55 mm
Sheet thickness	1.0 / 1.5 mm		1.5 mm	1.0 mm
Rebate type	Thin / thick rebate		Thin rebate	Thin rebate
Fitting in				
Brickwork	≥ 115 mm		≥ 175 mm	≥ 115 mm
Concrete	≥ 100 mm		≥ 140 mm	≥ 100 mm
Gas concrete blocks	≥ 150 mm		≥ 175 mm	≥ 150 mm
Gas concrete slabs	≥ 150 mm		≥ 175 mm	≥ 150 mm
Partition walls	≥ 95 mm		≥ 95 mm	≥ 95 mm
Size and function-dependent requirements for walls see page 50				
Additional functions / performance characteristics				
Thermal insulation U_D	1.9 W/(m²·K)		2.0 W/(m²·K)	1.9 W/(m²·K)
Acoustic rating category	**II**	**III**		
With bottom profile with seal	41 dB	44 dB	-	-
With retractable bottom seal	38 dB	42 dB	-	-
With threshold rail with seal	-	46 dB	-	-
With all-round frame on 4 sides	-	46 dB	-	-

	H3-1		H3 G-1	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	625 – 1250	1750 – 2500	875 – 1500	2000 – 3250
With fixed top panel		– 3500		

	H3 hatch	
Size range	**Width**	**Height**
Nominal size (ordering size)	500 – 999	500 – 1749
	1000 – 1124	625 – 1749
	1125 – 1250	750 – 1749

All dimensions in mm

Optional extras

T30 fire-rated door
H3
Double-leaf

Thin rebate
Door leaf thickness
55 mm

Thick rebate
Door leaf thickness
55 mm

Main function

T30 **Fire-retarding**

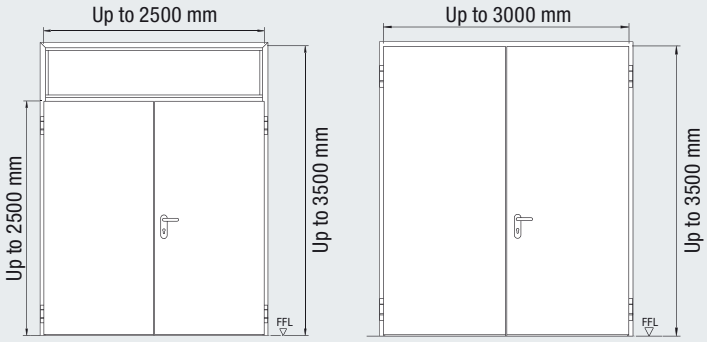
Additional functions
(with corresponding equipment, see pages 10 – 11)

RS **Smoke-tight**

dB **Acoustic-rated**
Acoustic values
from 38 – 42 dB

WK 2 **Break-in-resistant**
Up to 2500 × 2500 mm

WK 3 Up to 2500 × 2500 mm, sheet thickness 1.5 mm



Fire-rated door	H3-2		H3 G-2
Door leaf	55 mm		55 mm
Sheet thickness	1.0 / 1.5 mm		1.5 mm
Rebate type	Thin / thick rebate		Thin rebate
Fitting in			
Brickwork	≥ 115 mm		≥ 175 mm
Concrete	≥ 100 mm		≥ 140 mm
Gas concrete blocks	≥ 175 mm		≥ 175 mm
Gas concrete slabs	≥ 175 mm		≥ 175 mm
Partition walls	≥ 95 mm		-
Size and function-dependent requirements for walls see page 50			
Additional functions / performance characteristics			
Thermal insulation U_D	2.0 W/(m²·K)		2.0 W/(m²·K)
Acoustic rating category	**II**	**III**	
With bottom profile with seal	40 dB	-	-
With retractable bottom seal	38 dB	-	-
With threshold rail with seal	-	42 dB	-

	H3-2		H3 G-2	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	1375 – 2500	1750 – 2500	1500 – 3000	2000 – 3500
With fixed top panel		– 3500		
Traffic leaf width	750 – 1250		1000 – 1500	
Fixed leaf width	500 – 1250		500 – 1500	

All dimensions in mm

Optional extras

T30 fire-rated door
H3 KT
Single-leaf

NEW
For use
in exterior walls

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

Main function

Fire-retarding

T30

Use in exterior walls
With national
technical approval

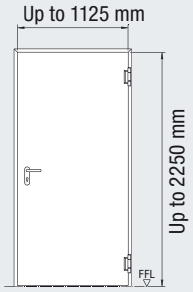
Additional functions
(with corresponding
equipment,
see pages 10 – 11)

dB

Acoustic-rated
Acoustic values
from 38 – 45 dB

RC 2

Break-in-resistant
RC 2



Fire-rated door / fire hatch	H3 KT
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
Size and function-dependent requirements for walls see page 50	
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.

	H3 KT	
Size range	**Width**	**Height**
Nominal size (ordering size)	625 – 1125	1750 – 2250

All dimensions in mm

Optional extras

Special equipment Page 44
Door sizing Page 46

T60 fire-rated door
H6
Single and double-leaf

Thin rebate
Door leaf thickness
65 mm

Thick rebate
Door leaf thickness
65 mm

Main function

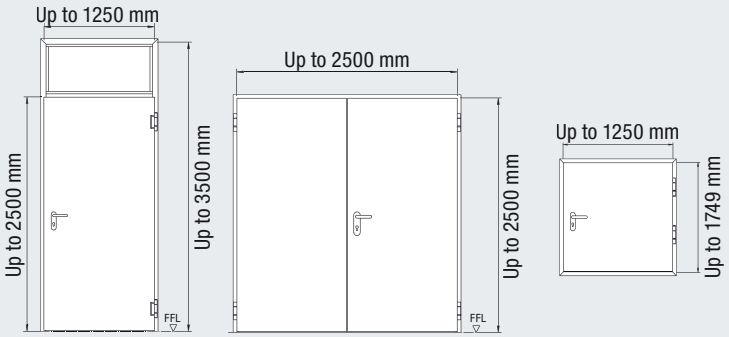
T60 **High fire resistance**

Additional functions
(with corresponding equipment, see pages 10 – 11)

RS **Smoke-tight**

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

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



Fire-rated door / fire hatch	H6-1		H6-2		H6 hatch
Door leaf	65 mm		65 mm		65 mm
Sheet thickness	1.0 / 1.5 mm		1.0 / 1.5 mm		1.0 mm
Rebate type	Thin / thick rebate		Thin rebate		Thin rebate
Fitting in					
Brickwork	≥ 175 mm		≥ 175 mm		≥ 115 mm
Concrete	≥ 140 mm		≥ 140 mm		≥ 100 mm*
Gas concrete blocks	≥ 200 mm		≥ 200 mm		≥ 175 mm*
Gas concrete slabs	≥ 200 mm		≥ 200 mm		≥ 175 mm*
Partition walls	≥ 100 mm		≥ 100 mm		≥ 100 mm*
Size and function-dependent requirements for walls see page 50 * for BRB ≤ 625 mm or BRH ≤ 750 mm (for other door sizes, values are the same as for door H6-1)					
Additional functions / performance characteristics					
Thermal insulation U_D	1.8 W/(m²·K)		1.8 W/(m²·K)		1.8 W/(m²·K)
Acoustic rating category	**II**	**III**	**II**	**III**	
With bottom profile with seal	40 dB	-	-	42 dB	-
With retractable bottom seal	38 dB	-	37 dB	-	-
With threshold rail with seal	-	43 dB	-	45 dB	-
With all-round frame on 4 sides	-	43 dB	-	-	-

	H6-1		H6-2	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	625 – 1250	1750 – 2500	1375 – 2500	1750 – 2500
With fixed top panel		– 3500		– 3500
Traffic leaf width			750 – 1250	
Fixed leaf width			500 – 1250	

	H6 hatch	
Size range	**Width**	**Height**
Nominal size (ordering size)	500 – 999	500 – 1749
	1000 – 1124	625 – 1749
	1125 – 1250	750 – 1749

All dimensions in mm

Optional extras

T90 fire-rated door
H16
Single-leaf

Thin rebate
Door leaf thickness
65 / 78 mm

Thick rebate
Door leaf thickness
65 mm

Main function

T90

Fire-proof

Additional functions
(with corresponding equipment, see pages 10 – 11)

RS

Smoke-tight

dB

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

WK 2

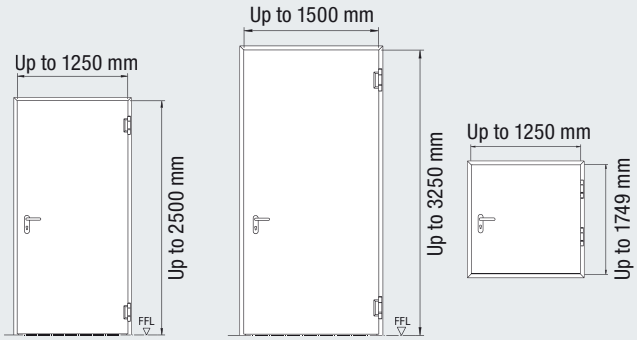
Break-in-resistant
Up to 1250 × 2500 mm

WK 3

Up to 1250 × 2250 mm, sheet thickness 1.5 mm

WK 4

Up to 1250 × 2250 mm, sheet thickness 1.5 mm



Fire-rated door / fire hatch	H16-1		H16 G-1	H16 hatch
Door leaf	65 mm		65 mm	65 / 78 mm
Sheet thickness	1.0 / 1.5 mm		1.5 mm	1.0 mm
Rebate type	Thin/thick rebate		Thin rebate	Thin rebate
Fitting in				
Brickwork	≥ 175 mm		≥ 240 mm	≥ 115 mm
Concrete	≥ 140 mm		≥ 140 mm	≥ 100 mm*
Gas concrete blocks	≥ 200 mm		≥ 200 mm	≥ 175 mm*
Gas concrete slabs	≥ 200 mm		≥ 200 mm	≥ 175 mm*
Partition walls	≥ 125 mm			≥ 125 mm*
Size and function-dependent requirements for walls see page 50 *for BRB ≤ 625 mm or BRH ≤ 750 mm (for other door sizes, values are the same as for door H16-1)				
Additional functions / performance characteristics				
Thermal insulation U_D	1.8 W/(m²·K)		1.8 W/(m²·K)	1.8 W/(m²·K)
Acoustic rating category	**II**	**III**		
With bottom profile with seal	40 dB	-	-	-
With retractable bottom seal	38 dB	-	-	-
With threshold rail with seal	-	43 dB	-	-
With all-round frame on 4 sides	-	43 dB	-	-

	H16-1		H16 G-1	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	625 – 1250	1750 – 2500	875 – 1500	2000 – 3250

	H16 hatch	
Size range	**Width**	**Height**
Nominal size (ordering size)	500 – 999	500 – 1749
	1000 – 1124	625 – 1749
	1125 – 1250	750 – 1749

All dimensions in mm

Optional extras

T90 fire-rated door
H16
Double-leaf

Thin rebate
Door leaf thickness
65 / 78 mm

Main function

T90

Fire-proof

Additional functions
(with corresponding equipment,
see pages 10 – 11)

RS

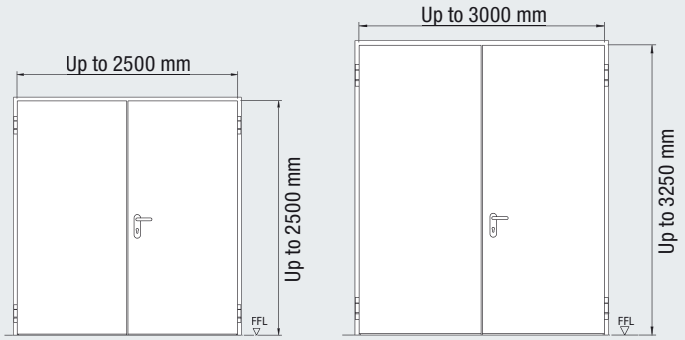
Smoke-tight
H16-2

dB

Acoustic-rated
H16-2:
Acoustic values
from 37 – 45 dB

WK 2

Break-in-resistant
H16-2



Fire-rated door	H16-2		H16 G-2
Door leaf	65 mm		78 mm
Sheet thickness	1.0 / 1.5 mm		1.5 mm
Rebate type	Thin rebate		Thin rebate
Fitting in			
Brickwork	≥ 175 mm		≥ 240 mm
Concrete	≥ 140 mm		≥ 140 mm
Gas concrete blocks	≥ 200 mm		≥ 200 mm
Gas concrete slabs	≥ 200 mm		≥ 200 mm
Partition walls	≥ 125 mm		
Size and function-dependent requirements for walls see page 50			
Additional functions / performance characteristics			
Thermal insulation U_D	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	-

Optional extras

	H16-2		H16 G-2	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	1375 – 2500	1750 – 2500	1500 – 3000	2000 – 3250
Traffic leaf width	750 – 1250		1000 – 1500	
Fixed leaf width	500 – 1250		500 – 1500	

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

Smoke-tight door
RS55
Single and double-leaf

Thin rebate
Door leaf thickness
55 mm

Thick rebate
Door leaf thickness
55 mm

Main function

RS

Smoke-tight
With bottom door
seal type 1 or 2

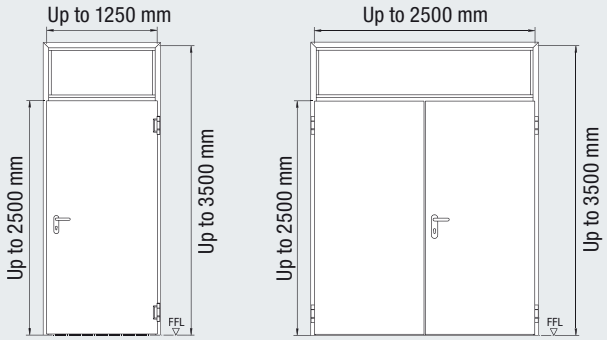
Additional function
(with corresponding
equipment,
see pages 10 – 11)

dB

Acoustic-rated
Acoustic values
from 38 – 41 dB

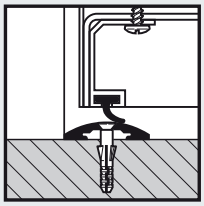
Use in exterior walls
RS55-1
Labelled according
to DIN EN 14351-1

CE

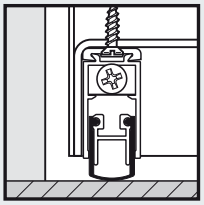


Smoke-tight door	RS55-1	RS55-2
Door leaf	55 mm	55 mm
Sheet thickness	1.0 / 1.5 mm	1.0 / 1.5 mm
Rebate type	Thin / thick rebate	Thin / thick rebate
Fitting in		
Brickwork	≥ 115 mm	≥ 115 mm
Concrete	≥ 100 mm	≥ 100 mm
Gas concrete blocks	≥ 150 mm	≥ 175 mm
Gas concrete slabs	≥ 150 mm	≥ 150 mm
Partition walls	≥ 100 mm	≥ 100 mm
Size and function-dependent requirements for walls see page 50		
Additional functions / performance characteristics		
Thermal insulation U_D	1.9 W/(m²·K)	2.0 W/(m²·K)
Acoustic rating category	**II**	**II**
With bottom profile with seal	41 dB	40 dB
With retractable bottom seal	38 dB	38 dB

Door bottom seals



Type 1
Aluminium bottom
profile with seal,
frame with stepped
threshold



Type 2
Retractable
bottom seal

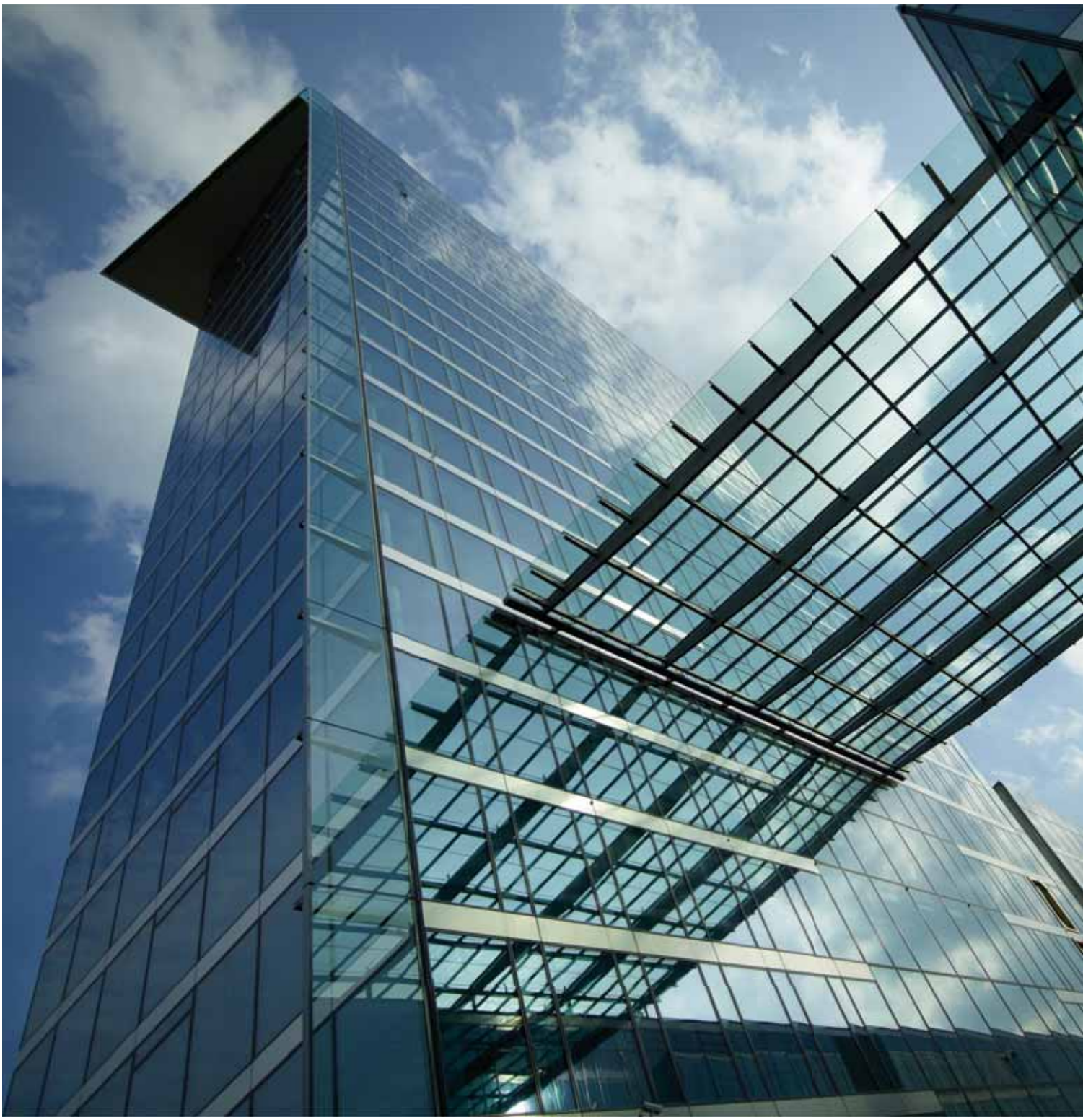
	RS55-1		RS55-2	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	625 – 1250	1750 – 2500	1375 – 2500	1750 – 2500
With fixed top panel		– 3500		– 3500
Traffic leaf width			750 – 1250	
Fixed leaf width			500 – 1250	

All dimensions in mm

Optional extras

Skyline-Tower, Munich
Architect: Murphy / Jahn, Chicago – Berlin

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



Hörmann products
- T30 steel fire-rated doors H3
- T90 steel fire-rated doors H16
- Acoustic insulation door D55
- T30 aluminium fire-rated doors H320

Acoustic insulation door HS75 / H16 S

Single-leaf

High acoustic rating up to 61 dB

Thick rebate
Door leaf thickness 75 mm

Main function

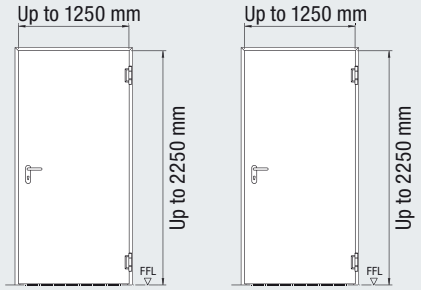
dB **High acoustic rating**
Acoustic values from 50 – 61 dB

Additional functions
(with corresponding equipment, see pages 10 – 11)

T90 **Fire-proof H16 S**

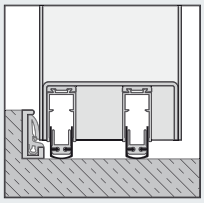
RS **Smoke-tight**

WK 2 **Break-in-resistant**

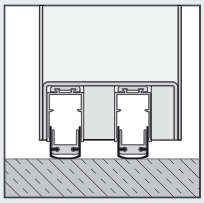


Acoustic insulation door	HS75-1	H16 S-1
Door leaf	75 mm	75 mm
Sheet thickness	1.0 mm	1.0 mm
Rebate type	Thick rebate	Thick rebate
Fitting in		
Brickwork	≥ 115 mm	≥ 240 mm
Concrete	≥ 100 mm	≥ 140 mm
Size and function-dependent requirements for walls see page 50		
Additional functions / performance characteristics		
Thermal insulation U_D	2.1 W/(m²·K)	2.1 W/(m²·K)
Acoustic rating category	**IV**	**IV**
With threshold rail with seal and 2 retractable bottom seals	53 dB	53 dB
With 2 retractable bottom seals	50 dB	50 dB
With threshold rail with seal	51 dB	51 dB
For high requirements		
With 2 retractable bottom seals	59 dB	59 dB
2 aluminium bottom profiles with seal and stepped threshold	59 dB	59 dB
With threshold rail with seal	61 dB	61 dB

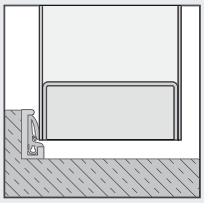
Door bottom seals



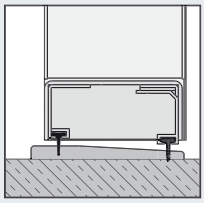
Threshold rail with seal and 2 retractable bottom seals



2 retractable bottom seals



Threshold rail with seal



Stepped threshold with seal

Optional extras

	HS75-1		H16 S-1	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	625 – 1250	1750 – 2250	625 – 1250	1750 – 2250

All dimensions in mm

Bauhaus University, Weimar, Germany
Architect: meck architekten

Hörmann products
- T30 steel fire-rated doors H3 and H3D
- T90 steel fire-rated doors H16
- Steel doors D45

Security door E45

Single and double-leaf

T30 fire-retarding as H3D-1

See page 19

Thin rebate
Door leaf thickness
45 mm

Main function

Break-in-resistant

WK 2

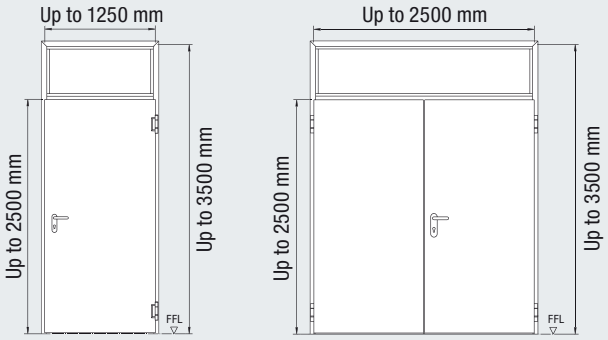
Additional function
(with corresponding equipment, see pages 10 – 11)

dB

Acoustic-rated
Acoustic values
from 37 – 44 dB

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

CE



Security door	E45-1		E45-2
Door leaf	45 mm		45 mm
Sheet thickness	1.0 / 1.5 mm		1.5 mm
Rebate type	Thin rebate		Thin rebate
Fitting in			
Brickwork	≥ 115 mm		≥ 115 mm
Concrete	≥ 100 mm		≥ 100 mm
Gas concrete blocks	≥ 150 mm		≥ 175 mm
Gas concrete slabs	≥ 150 mm		≥ 150 mm
Size and function-dependent requirements for walls see page 50			
Additional functions / performance characteristics			
Thermal insulation U_D	1.9 W/(m²·K)		2.0 W/(m²·K)
Acoustic rating category	**II**	**III**	**II**
With bottom profile with seal	41 dB	-	38 dB
With retractable bottom seal	37 dB	-	37 dB
With threshold rail with seal	-	44 dB	40 dB
Wind load	Class C4 – C5		Class C2
Water tightness under heavy rain	Class 1A – 7A		Class 2A
Air permeability	Class 2 – 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

	E45-1		E45-2	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	625 – 1250	1750 – 2500	1375 – 2500	1750 – 2500
With fixed top panel		– 3500		– 3500
Traffic leaf width			750 – 1250	
Fixed leaf width			500 – 1250	

All dimensions in mm

Unilever building, Hamburg, Germany
Architect: Behnisch Architekten, Stuttgart

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

Hörmann products
- T30 aluminium hollow profiled section doors HE 311
- Aluminium smoke-tight doors A / RS-150
- T30 steel fire-rated doors H3
- Steel doors D55

Security door E55

Single-leaf

T30 fire-retarding as H3

See pages 20 / 21

Thick rebate
Door leaf thickness
55 mm

Main function

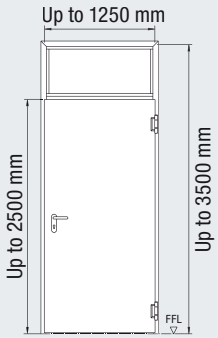
Break-in-resistant WK 2

Additional function
(with corresponding equipment, see pages 10 – 11)

Smoke-tight

Acoustic-rated
Acoustic values
from 38 – 45 dB

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



Security door	E55-1	
Door leaf	55 mm	
Sheet thickness	1.0 / 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	
Size and function-dependent requirements for walls see page 50		
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	38 dB	-
With threshold rail with seal	-	45 dB
Wind load	Class C5	
Water tightness under heavy rain	Class 1A – 7A	
Air permeability	Class 3 – 4	
Operating forces	Class 2 – 4	
Mechanical strength	Class 4	
Differential climate behaviour	Class 2(d) – 3(e)	
The listed values depend on the door features and fitting situation		

Optional extras

	E55-1	
Size range	**Width**	**Height**
Nominal size (ordering size)	625 – 1250	1750 – 2500
With fixed top panel		– 3500
Traffic leaf width		
Fixed leaf width		

All dimensions in mm

BMW Welt, Munich
Architect: Coop Himmelb(l)au, Vienna

Hörmann products
BMW Welt:
- High-acoustic-rating doors HS75-1

BMW high rise:
- T30 steel fire-rated doors H3D-1 and H3D-2
- T90 steel fire-rated doors H16-1 and T90 steel fire hatches H16
- T30 security doors H3-1 / WK 4
- Steel doors D45-1 and D45-2
- Fire sliding doors
- Industrial sectional doors

Security door E65

Single and double-leaf

T30 fire-retarding as H3

See pages 20 / 21

Thick rebate
Door leaf thickness
65 mm

Main function

WK 3 **Break-in-resistant WK 3**

WK 4 **WK 4**
E65-1

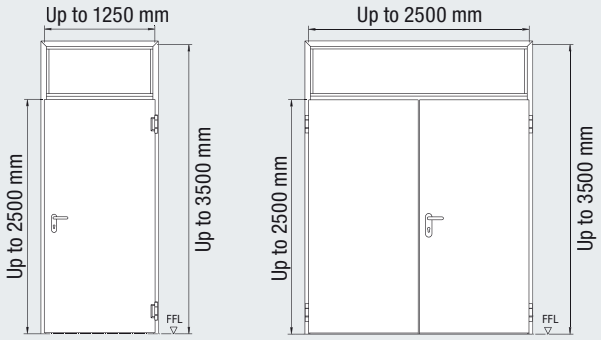
Additional functions
(with corresponding equipment, see pages 10 – 11)

RS **Smoke-tight**

dB **Acoustic-rated**
Acoustic values from 38 – 43 dB

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

CE



Security door	E65-1		E65-2	
Door leaf	65 mm		65 mm	
Sheet thickness	1.0 / 1.5 mm		1.5 mm	
Rebate type	Thick rebate		Thick rebate	
Fitting in				
Brickwork	≥ 115 mm		≥ 115 mm	
Concrete	≥ 120 / 140 mm		≥ 120 / 140 mm	
Gas concrete blocks	≥ 300 mm			
Size and function-dependent requirements for walls see page 50				
Additional functions / performance characteristics				
Thermal insulation U_D	1.8 W/(m²·K)		1.7 W/(m²·K)	
Acoustic rating category	**II**	**III**	**II**	**III**
With bottom profile with seal	40 dB	-	40 dB	-
With retractable bottom seal	38 dB	-	38 dB	-
With threshold rail with seal	-	43 dB	-	43 dB
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

	E65-1		E65-2	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	625 – 1250	1750 – 2500	1375 – 2500	1750 – 2500
With fixed top panel		– 3500		– 3500
Traffic leaf width			750 – 1250	
Fixed leaf width			500 – 1250	

All dimensions in mm

dm combination distribution centre, Weilerswist
Architect: BFK Architekten, Stuttgart

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

Hörmann products
- T30 steel hollow profiled section doors HE310 and HE320
- T30 steel fire-rated doors H3 and H3D
- Steel doors D45
- Industrial sectional doors SPU
- High-speed doors
- Dock levellers
- Dock seals / shelters

Steel door
D45
Single and double-leaf

Thin rebate
Door leaf thickness
45 mm

Main function

MZ

Multi-purpose door

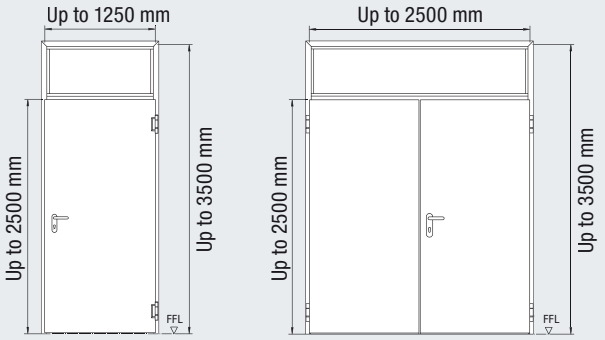
Additional function
(with corresponding equipment, see pages 10 – 11)

dB

Acoustic-rated
Acoustic values
from 37 – 44 dB

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

CE



Steel door	D45-1		D45-2
Door leaf	45 mm		45 mm
Sheet thickness	1.5 mm		1.5 mm
Rebate type	Thin rebate		Thin rebate
Fitting in			
Brickwork	●		●
Concrete	●		●
Gas concrete blocks	●		●
Gas concrete slabs	●		●
Partition walls	●		●
Additional functions / performance characteristics			
Thermal insulation U_D	1.9 W/(m²·K)		2.0 W/(m²·K)
Acoustic rating category	**II**	**III**	**II**
With bottom profile with seal	41 dB	-	38 dB
With retractable bottom seal	37 dB	-	37 dB
With threshold rail with seal	-	44 dB	40 dB
Wind load	Class C4 – C5		Class C2
Water tightness under heavy rain	Class 1A – 7A		Class 2A
Air permeability	Class 2 – 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

	D45-1		D45-2	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	500 – 1250	1500 – 2500	1250 – 2500	1750 – 2500
With fixed top panel		– 3500		– 3500
Traffic leaf width			750 – 1250	
Fixed leaf width			500 – 1250	

All dimensions in mm

Optional extras

Steel door
D55
Single and double-leaf

Thin rebate
Door leaf thickness
55 mm

Thick rebate
Door leaf thickness
55 mm

Main function

Multi-purpose door

MZ

Additional function

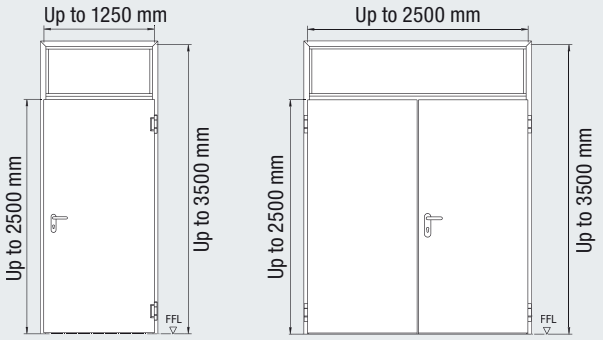
(with corresponding equipment, see pages 10 – 11)

dB

Acoustic-rated
Acoustic values
from 38 – 45 dB

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

CE



Steel door	D55-1		D55-2	
Door leaf	55 mm		55 mm	
Sheet thickness	1.5 mm / 1.0 mm		1.5 mm / 1.0 mm	
Rebate type	Thin / thick rebate		Thin / thick rebate	
Fitting in				
Brickwork	●		●	
Concrete	●		●	
Gas concrete blocks	●		●	
Gas concrete slabs	●		●	
Partition walls	●		●	
Additional functions / performance characteristics				
Thermal insulation U_D	1.9 W/(m²·K)		2.0 W/(m²·K)	
Acoustic rating category	**II**	**III**	**II**	**III**
With bottom profile with seal	41 dB	-	40 dB	-
With retractable bottom seal	38 dB	-	38 dB	-
With threshold rail with seal	-	45 dB	-	42 dB
Wind load	Class C5		Class C2	
Water tightness under heavy rain	Class 1A – 7A		Class 2A	
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

	D55-1		D55-2	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	500 – 1250	1500 – 2500	1250 – 2500	1750 – 2500
With fixed top panel		– 3500		– 3500
Traffic leaf width			750 – 1250	
Fixed leaf width			500 – 1250	

All dimensions in mm

Optional extras

Steel door
D65
Single and double-leaf

Thin rebate
Door leaf thickness
65 mm

Main function

MZ

Multi-purpose door

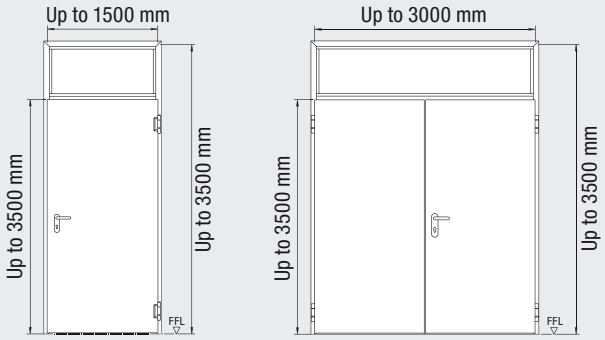
Additional function
(with corresponding equipment, see pages 10 – 11)

dB

Acoustic-rated
Acoustic values
from 38 – 43 dB

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

CE



Steel door	D65-1		D65-2	
Door leaf	65 mm		65 mm	
Sheet thickness	1.5 mm		1.5 mm	
Rebate type	Thin rebate		Thin rebate	
Fitting in				
Brickwork	●		●	
Concrete	●		●	
Gas concrete blocks	●		●	
Gas concrete slabs	●		●	
Partition walls	●		●	
Additional functions / performance characteristics				
Thermal insulation U_D	1.8 W/(m²·K)		1.7 W/(m²·K)	
Acoustic rating category	**II**	**III**	-	-
With bottom profile with seal	40 dB	-	-	-
With retractable bottom seal	38 dB	-	-	-
With threshold rail with seal	-	43 dB	-	-
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

	D65-1		D65-2	
Size range	**Width**	**Height**	**Width**	**Height**
Nominal size (ordering size)	625 – 1500	1750 – 3500	1250 – 3000	1750 – 3500
With fixed top panel		– 3500		– 3500
Traffic leaf width			750 – 1500	
Fixed leaf width			500 – 1500	

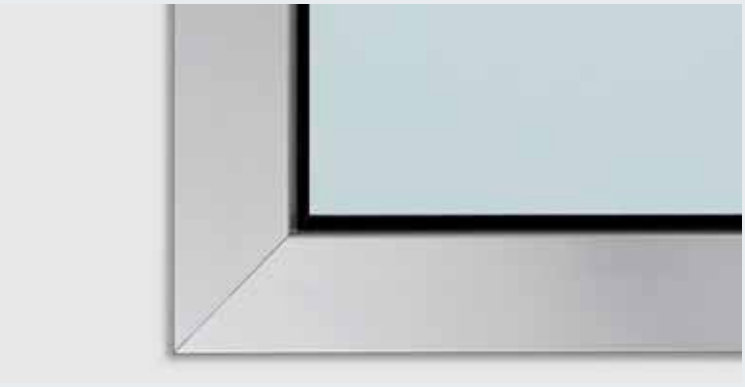
All dimensions in mm.

Optional extras

More design options are provided by glazings in various forms

Steel profile in Grey white

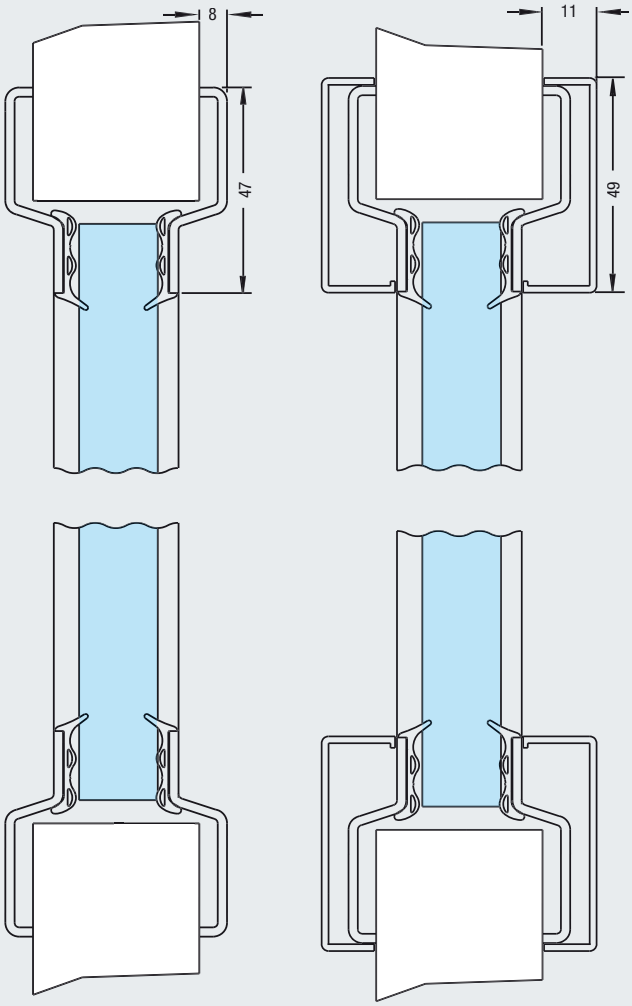
Stainless steel profile



Aluminium cover profile

Aluminium or steel glazing frame

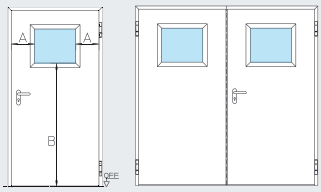
As standard, glazing profiles are supplied in galvanized steel, with powder-coated primer in Grey white (similar to RAL 9002).
On request, the profiles are also available in brushed stainless steel and rectangular glazing with aluminium cover profiles anodized with a natural-finish (F1).



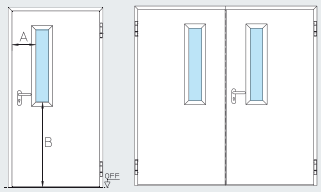
Steel profile

Aluminium cover profile

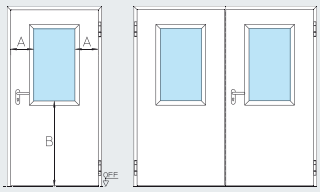
Glazing is supplied in a standard size that matches the door size proportionally and provides for an attractive look and uniform appearance with its slim profiles. Lever handles do not disturb the line of sight through the glass.



Glazing view 0
Distance to side A: 270 mm
Bottom section height B: 1400 mm



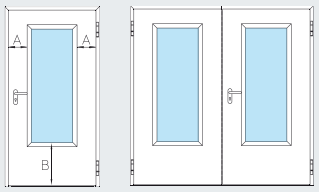
Glazing view 1
Distance to side A: 270 mm
Bottom section height B: 965 mm



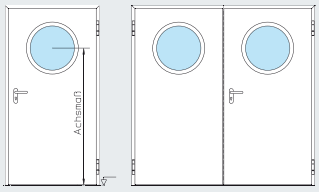
Glazing view 2
Distance to side A: 270 mm
Bottom section height B: 965 mm

All dimensions in mm.
* From BR height 2250 mm

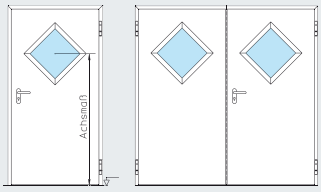
Standard door leaf width BR	View 0		View 1		View 2	
	Clear view	Min. door leaf width	Clear view	Min. door leaf width	Clear view	Min. door leaf width
750	215 × 385 / 635*	645	140 × 815	570	215 × 815	645
875	340 × 385 / 635*	770			340 × 815	770
1000	465 × 385 / 635*	895			465 × 815	895
1062.5	528 × 385 / 635*	958			528 × 815	958
1125	590 × 385 / 635*	1020			590 × 815	1020
1250	715 × 385 / 635*	1145			715 × 815	1145



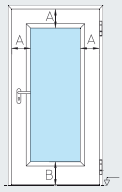
Glazing view 3
Distance to side A: 270 mm
Bottom section height B: 500 mm



Round glazing
Axis dimension: Height from bottom edge of door leaf to centre of cut-out 1550 mm



Diamond-shaped glazing
Axis dimension: State from FFL



Glazing to choose
Distance to side A: 215 mm
Bottom section height B:
see table below

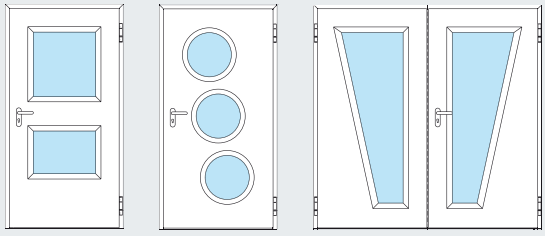
Standard door leaf width BR	View 3		Round glazing		Diamond-shaped glazing	
	Clear view	Min. door leaf width	Clear view	Min. door leaf width	Clear view	Min. door leaf width
750	215 × 1280	645	Ø 300	730	300 × 300	875
875	340 × 1280	770				
1000	465 × 1280	895	Ø 400	830	400 × 400	1000
1062.5	528 × 1280	958				
1125	590 × 1280	1020	Ø 500	930	500 × 500	1125
1250	715 × 1280	1145				

All dimensions in mm.

Glazing to choose

Door type	Bottom section height B	Maximum clear view
H3D	At least 440	695 × 1595
H3	At least 225	820 × 2060
H3 WK 2	At least 965	715 × 1315
H3 G	At least 965	1070 × 2070
H6	At least 270	820 × 2015
H6 WK 2	At least 965	715 × 1315
H16	At least 270	820 × 2015
H16 WK 2	At least 965	715 × 1315
H16 G	At least 965	1070 × 2070
RS55	At least 225	820 × 2060
E45 / E55 / E65	At least 965	630 × 1315
D45 / D55	At least 225	820 × 2060
D65	At least 225	1070 × 1570

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.

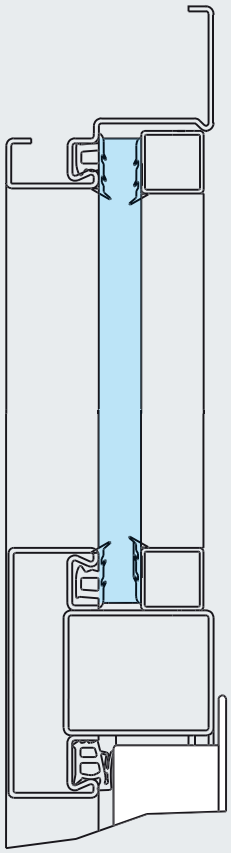


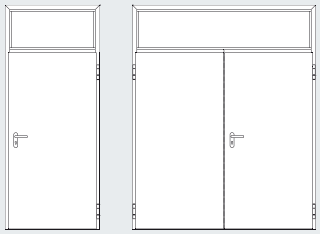
Room-high door view through fixed top panels

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).

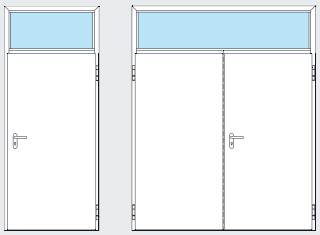
Fixed top panels





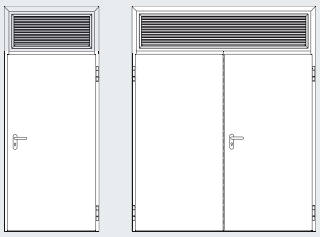
With steel panel

Height	Min.	250 mm
	Max.	1000 mm



With glazing

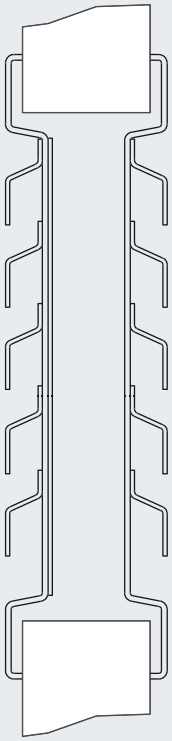
Height	Min.	250 mm
	Max.	1000 mm

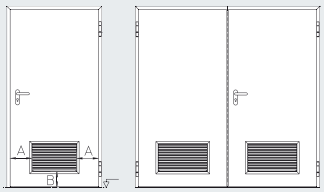


With ventilation grille

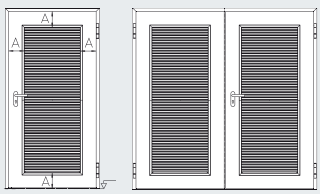
Height	Min.	250 mm
	Max.	1000 mm

Ventilation grille





Grille height:	365 mm
Distance to side A:	220 mm
Bottom section height B:	180 mm



Size to choose

Distance to side A:	At least	180 mm
Width:	Min.	250 mm
	Max.	1140 mm
Height:	Min.	250 mm
	Max.	2395 mm

For break-in-resistant doors

Width:	Max.	800 mm
Height:	Max.	1370 mm

Overview of glazings, ventilation grilles and fixed top panels

	H3D	H3	H6	H16	HS75	H16 S	RS55	E45	E55	E65	D45	D55	D65
Glazing variations (see page 40 – 41)													
Rectangular glazing view 0	○	○	○	○			○	○	○		●	●	●
Rectangular glazing view 1	●[1]	●	●	●			●	●	●	●	●	●	●
Rectangular glazing view 2	●[1]	●	●	●			●	○	○		●	●	●
Rectangular glazing view 3	●[1]	●[1]	●[1]	●[1]			●				○	○	○
Round glazing	●[1]	●[1]	●[1]	●[1]			●				●	●	●
Diamond-shaped glazing	○	○	○	○			○	○	○		●	●	●
Flush-fitting glazing to choose		○											
Glazing to choose Please note the maximum measurements on page 41	○	○	○	○			○	○	○	○	○	○	○
Ventilation grille (see page 42)													
Standard								●	●[2]		●	●	●
Size to choose								●	●[2]		●	●	●
Fixed top panel (see page 42)													
Steel panel / fire protection panel		●[2]						●	●[2]		●	●	●
Glazing		●[2]	●[3]					●	●	●[4]	●	●	●
Ventilation grille											●	●	●

Types of glass													
Promaglas 30 clear, 17 mm	●	●											
P4A Promaglas 30 clear, 21 mm (WK 2 / RC 2)		●											
Promaglas 60 clear, 21 mm			●										
Promaglas 90 clear, 37 mm				●									
P6B safety glass, 18 mm (WK 2 / RC 2)								●	●				
P7B safety glass, 28 mm (WK 3 / RC 3)										●			
Wired glass 6 mm*							○				○	○	○
Insulated wired glass / laminated safety glass 20 mm*							○				○	○	○
Laminated safety glass VSG 6 mm							●				●	●	●
Single-pane safety glass ESG 6 mm							○				○	○	○
Wired plate glass 7 mm*							○				○	○	○
Wired compound security glass 6 mm*							○				○	○	○
Prepared for on-site glass (6 mm or 20 mm)											○	○	○

● 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

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!
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.

Do you have a specific requirement? Then Hörmann is the right partner for you.

Lever handle sets

Operational requirements and individual wishes demand a comprehensive range of fittings in the facility. Fittings in the form of knobs, levers or anti-panic handle sets are available with short, long, wide or rose escutcheon and various handle shapes.
Surfaces are available in differently coloured plastic versions, aluminium F1 and stainless steel (break-in resistant doors can only be equipped with fittings according to DIN 18257 resistance classes).

Locks

In addition to the normal use of a door, the facility requires special lock functions or additional locks. Optional special and additional locks:

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

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
- Anti-panic lock, self-locking

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 to DIN EN 1125
- Anti-panic lock DIN EN 1125 with different functions

Hörmann quality means all optional extras are designed for a perfect fit and attractive look for safe and long-life performance.

Door closers

Modern door closer systems allow secure and low-noise closing of the door elements in everyday use.

- Overhead door closer with lever arm
- Overhead door closer with slide rail
- Integrated door closer (concealed fitting)

These systems are available in the colour silver (standard), in RAL to choose or with a stainless steel look.

Hold-open devices / operators

Fire and smoke-protection doors must be equipped with a special means of closing that ensures that they close automatically. By using hold-open devices, automatic closing can be put out of action in a controlled manner and doors permanently held open. Alternatively, convenient, barrier-free use is possible with hinged door operators.

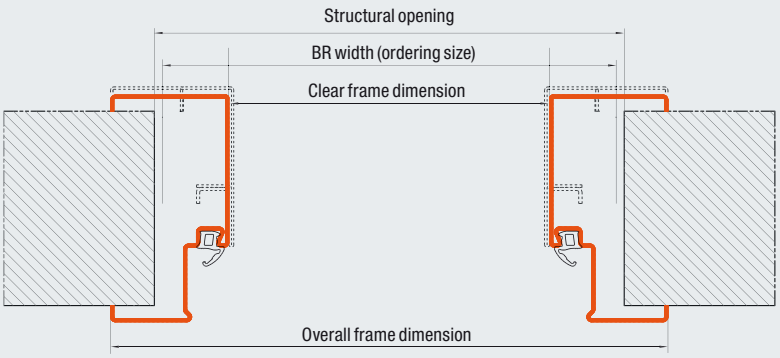
- Magnets for wall or floor fitting
- Overhead door closer with lever arm and electromechanical hold-open device
- Overhead door closer with slide rail and electromagnetic hold-open device
- Integrated door closer with electromechanical hold-open device
- Hinged door operator

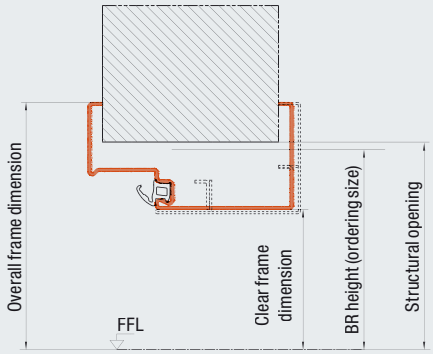
Electrical equipment

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
- Concealed electro duct

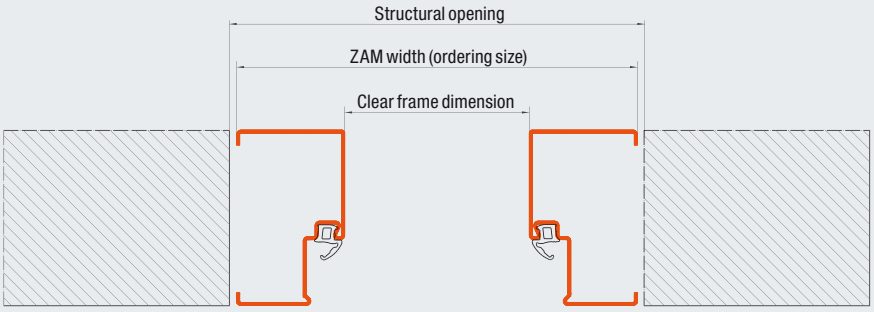
Door sizing

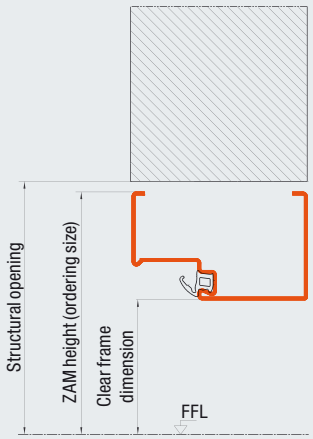




	3-sided all-round frame (doors / hatches)		4-sided all-round frame (door)		4-sided all-round frame (hatch)	
	BR width	BR height	BR width	BR height	BR width	BR height
Doors / hatches with corner frame / DryFix frame / corner with counter frame / 1-part profile frame						
Clear frame dimension	–82	–42	–82	–70	–82	–82
Overall frame dimension	+64	+31	+64	+76	+64	+64
Structural opening	+0 to 20	+0 to 15	+0 to 20	+0 to 15	+0 to 20	+0 to 15
Doors / hatches with double-shell profile frame						
Clear frame dimension	–90	–46	–88	–76	–88	–88
Overall frame dimension	+64	+31	+64	+76	+64	+64
Structural opening	+0 to 20	+0 to 15	+0 to 20	+0 to 15	+0 to 20	+0 to 15
Doors and hatches with profile frames for partition walls: Nominal size = structural opening						

All dimensions in mm.





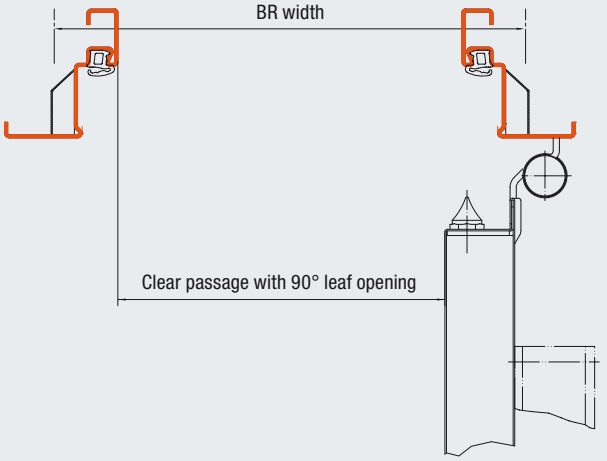
	3-sided all-round frame (doors / hatches)		4-sided all-round frame (doors / hatches)	
	ZAM width	ZAM height	ZAM width	ZAM height
Doors / hatches with block frame (fitting in the opening)				
Clear frame dimension	–146	–73	–146	–146
Structural opening	+10 to 20	+20	+10 to 20	+20

All dimensions in mm.

Clear passage widths

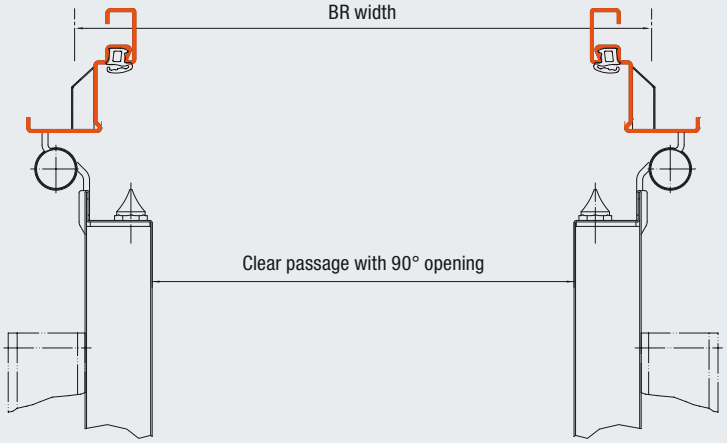
At an opening angle of 90°, without fittings

Single-leaf door



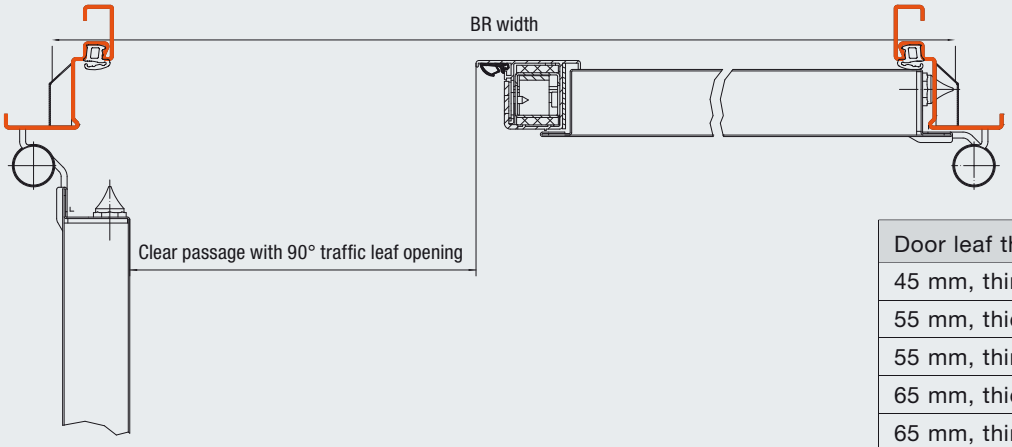
Door leaf thickness	BR width
45 mm, thin rebate	– 93 mm
55 mm, thick rebate	– 93 mm
55 mm, thin rebate	– 103 mm
65 mm, thick rebate	– 103 mm
65 mm, thin rebate	– 113 mm
75 mm, thick rebate	– 105 mm

Double-leaf door



Door leaf thickness	BR width
45 mm, thin rebate	– 104 mm
55 mm, thick rebate	– 104 mm
55 mm, thin rebate	– 124 mm
65 mm, thick rebate	– 124 mm
65 mm, thin rebate	– 144 mm
78 mm, thin rebate	– 170 mm

Double-leaf door, traffic leaf



Door leaf thickness	BR width
45 mm, thin rebate	– 95 mm
55 mm, thick rebate	– 95 mm
55 mm, thin rebate	– 109 mm
65 mm, thick rebate	– 109 mm
65 mm, thin rebate	– 109 mm
78 mm, thick rebate	– 122 mm

Technical details
Multi-function doors

	H3D		H3				H3 G		H6			H16		
	Single-leaf	Double-leaf	Hatch	Single-leaf	Double-leaf	KT	Single-leaf	Double-leaf	Hatch	Single-leaf	Double-leaf	Hatch	Single-leaf	Double-leaf
Main function														
Standard	T30 Fire-retarding		T30 Fire-retarding				T30 Fire-retarding		T60 High fire resistance			T90 Fire-proof		
Standard additional function														
Thermal insulation U_D = W/(m²·K)	1.9	2.0	1.9	1.9	2.0	1.9	2.0	2.0	1.8	1.8	1.8	1.8	1.8	1.7
Additional functions with corresponding equipment (see page 10 – 11)														
Smoke protection	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Acoustic rating (dB)	37 – 44	37 – 40		38 – 45	38 – 42	38 – 45				38 – 43	37 – 45		38 – 43	37 – 45
Break-in-resistant (resistance class 2)	●			●	●	●				●	●		●	●
Break-in-resistant (resistance class 3)				●	●	●							●	
Break-in-resistant (resistance class 4)				●		●							●	
Door leaf														
Leaf thickness	45		55	55 / 65	55 / 65	55 / 65	65	55	65	65		65	65	
Sheet thickness	1.0		1.0	1.0 / 1.5	1.0 / 1.5	1.0 / 1.5	1.5		1.0	1.0 / 1.5		1.0	1.0 / 1.5	
Thin rebate type	●		●	●	●	●	●	●	●	●	●	●	●	●
Thick rebate type				●	●	●				●			●	
Frame variants														
Corner frame	●		●		●		●		●	●		●	●	
Counter frame	●		●		●		●		●	●		●	●	
DryFix frame			●		●									
Profile frame (double-shell)			●		●				●	●		●	●	
Profile frame	●		●		●		●		●	●		●	●	
Block frame for fitting in the opening	●		●		●		●		●	●		●	●	
Approved for fitting in (see page 50):														
Brickwork	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Concrete	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Gas concrete, stone slabs or concrete precision blocks	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Gas concrete slabs, reinforced, horizontal or vertical	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Prefabricated walls made of gypsum boards	●	●	●	●	●	●	●		●	●	●	●	●	●
Nominal size														
Width	625 – 1125	1375 – 2250	500 – 1250	625 – 1250	1375 – 2500	625 – 1250	875 – 1500	1500 – 3000	500 – 1250	625 – 1250	1375 – 2500	500 – 1250	625 – 1250	1375 – 2500
Height	1750 – 2250	1750 – 2250	500 – 1749	1750 – 2500	1750 – 2500	1750 – 2500	2000 – 3250	2000 – 3500	500 – 1749	1750 – 2500	1750 – 2500	500 – 1749	1750 – 2500	1750 – 2500
Door set with fixed top panel														
Maximum door set height BR				3500	3500	3500				3500				
Maximum door leaf height				2500	2500	2500				2500				

All dimensions in mm.

H16 G		HS 75	H16 S	RS55		E45		E55	E65		D45		D55		D65	
Single-leaf	Double-leaf	Single-leaf	Single-leaf	Single-leaf	Double-leaf	Single-leaf	Double-leaf	Single-leaf	Single-leaf	Double-leaf	Single-leaf	Double-leaf	Single-leaf	Double-leaf	Single-leaf	Double-leaf
T90 Fire-proof		High acoustic rating	High acoustic rating T90 fire-proof Smoke-tight	Smoke-tight		Break-in-resistant		Break-in-resistant	Break-in-resistant							
1.8		2.1	2.1	1.9	2.0	1.9	2.0	1.9	1.8	1.7	1.9	2.0	1.9	2.0	1.8	1.7
●		● 50 – 53 ●	50 – 53 ●	38 – 41	38 – 40	37 – 44 ●	37 – 40 ●	● 38 – 45 ●	● 38 – 43 ● ●	38 – 43 ●	37 – 44	37 – 40	38 – 45	38 – 42	38 – 43	
65 1.5 ●	78 1.5 ●	75 1 ● ●	75 1 ● ●	55 1.0 / 1.5 ● ●		45 1.0 / 1.5 ● ●	1.5	55 1.0 / 1.5 ● ●	65 1.5 ● ●		45 1.5 ●		55 1.0 / 1.5 ● ●	● ●	65 1.5 ●	
● ● ● ●	 ● ●	● ● ● ●	● ● ● ●	● ● ● ● ● ● ●		● ● ● ● ● ● ●		● ● ● ● ● ● ●	● ● ● ●		● ● ● ● ● ● ●		● ● ● ● ● ● ●		● ● ● ●	
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875 – 1500	1500 – 3000	625 – 1250	625 – 1250	625 – 1250	1375 – 2500	625 – 1250	1375 – 2500	625 – 1250	625 – 2500	1375 – 2500	500 – 1250	1250 – 2500	500 – 1250	1250 – 2500	625 – 1500	1250 – 3000
2000 – 3250	2000 – 3250	1750 – 2250	1750 – 2250	1750 – 2500	1750 – 2500	1750 – 2500	1750 – 2500	1750 – 2500	1750 – 2500	1750 – 2500	1500 – 2500	1750 – 2500	1500 – 2500	1750 – 2500	1750 – 3500	1750 – 3500
				3500 2500	3500 2500	3500 2500	3500 2500	3500 2500	3500 2500	3500 2500	3500 2500	3500 2500	3500 2500	3500 2500	3500 3250	3500 3250

All dimensions in mm.

Permitted minimum wall thicknesses

Door function		T30 *				T60 *			T90 *				
		Single-leaf		Double-leaf		Single-leaf		Double-leaf	Single-leaf			Double-leaf	
Nominal width (BRB) Nominal height (BRH)		≤ 1250 and ≤ 2500	> 1250 or > 2500	≤ 2500 and ≤ 2500	> 2500 or > 2500	< 625 and < 1750	≤ 1250 and ≤ 2500	≤ 2500 and ≤ 2500	< 625 and < 750	≤ 1250 and ≤ 2500	> 1250 or > 2500	≤ 2500 and ≤ 2500	> 2500 or > 2500
Types of walls													
Brickwork DIN 1053		≥ 115	≥ 240	≥ 175	≥ 175	≥ 115	≥ 175[1]	≥ 175	≥ 115	≥ 175[2]	≥ 240	≥ 175	≥ 240
Concrete DIN 1045		≥ 100	≥ 140	≥ 100	≥ 140	≥ 100	≥ 140	≥ 140	≥ 100	≥ 140	≥ 140	≥ 140	≥ 140
Gas concrete blocks: Stone slabs or precision blocks, DIN 4165, strength class 4 at least		≥ 150	≥ 175	≥ 175	≥ 175	≥ 175	≥ 200	≥ 200	≥ 175	≤ 200	≥ 200	≥ 200	≥ 200
Gas concrete slabs: Reinforced slabs DIN 4165, strength class 4.4 at least		≥ 150	≥ 175	≥ 175	≥ 175	≥ 175	≥ 200	≥ 200	≥ 175	≤ 200	≤ 200	≥ 200	≥ 200
Prefabricated walls acc. to DIN 4102-4 / table 49, timber partition wall (with DryFix frame and 2-shell profile frame)	≥ F90 B[3]	≥ 130		≥ 130									
Prefabricated walls acc. to DIN 4102-4 / table 48, metal partition wall (max. height 5000 mm)	≥ F90 A	≥ 100	≥ 100	≥ 100		≥ 100	≥ 100	≥ 125	≥ 125	≥ 125		≥ 125	
Prefabricated walls with public building authority test certificate (max. height 5000 mm)	≥ F90 A	≥ 95	≥ 95	≥ 95		≥ 100	≥ 100	≥ 100	≥ 125	≥ 125		≥ 125	

* Please observe the available wall thicknesses under the door function “Break-in resistant” for the break-in resistant versions of fire-rated doors!
[1] With corner frame for BRB ≤ 1250 mm and BRH ≤ 2250 mm, otherwise wall thickness ≥ 240 mm
[2] With corner frame for BRB ≤ 1250 mm and BRH ≤ 2125 mm, otherwise wall thickness ≥ 240 mm
[3] Only door variant H3

Door function		RS		dB	WK		
		Single-leaf	Double-leaf	Up to 61 dB	WK 2 / RC 2	WK 3 / RC 3	WK 4 / RC 4
Nominal width (BRB) Nominal height (BRH)							
Types of walls							
Brickwork DIN 1053		≥ 115	≥ 115	≥ 115	≥ 115	≥ 115	≥ 240
Concrete DIN 1045		≥ 100	≥ 100	≥ 100	≥ 100	≥ 120	≥ 140
Gas concrete blocks: Stone slabs or precision blocks, DIN 4165, strength class 4 at least		≥ 175	≥ 175		≥ 150	≥ 300	
Gas concrete slabs: Reinforced slabs DIN 4165, strength class 4.4 at least		≥ 150	≥ 150		≥ 150		
Prefabricated walls acc. to DIN 4102-4 / table 49, timber partition wall (with DryFix frame and 2-shell profile frame)	≥ F90 B	≥ 130	≥ 130		Doors with break-in resistance cannot be fitted into prefabricated walls. Exception: WK 2 doors		
Prefabricated walls acc. to DIN 4102-4 / table 48, metal partition wall (max. height 5000 mm)	≥ F90 A	≥ 100	≥ 100				
Prefabricated walls with public building authority test certificate (max. height 5000 mm)	≥ F90 A	≥ 100	≥ 100				

Hörmann Product Range

Everything from a single source for your construction project

Sectional doors

Rolling shutters
and rolling grilles

High-speed doors

Loading technology

Fire and multi-purpose
sliding doors

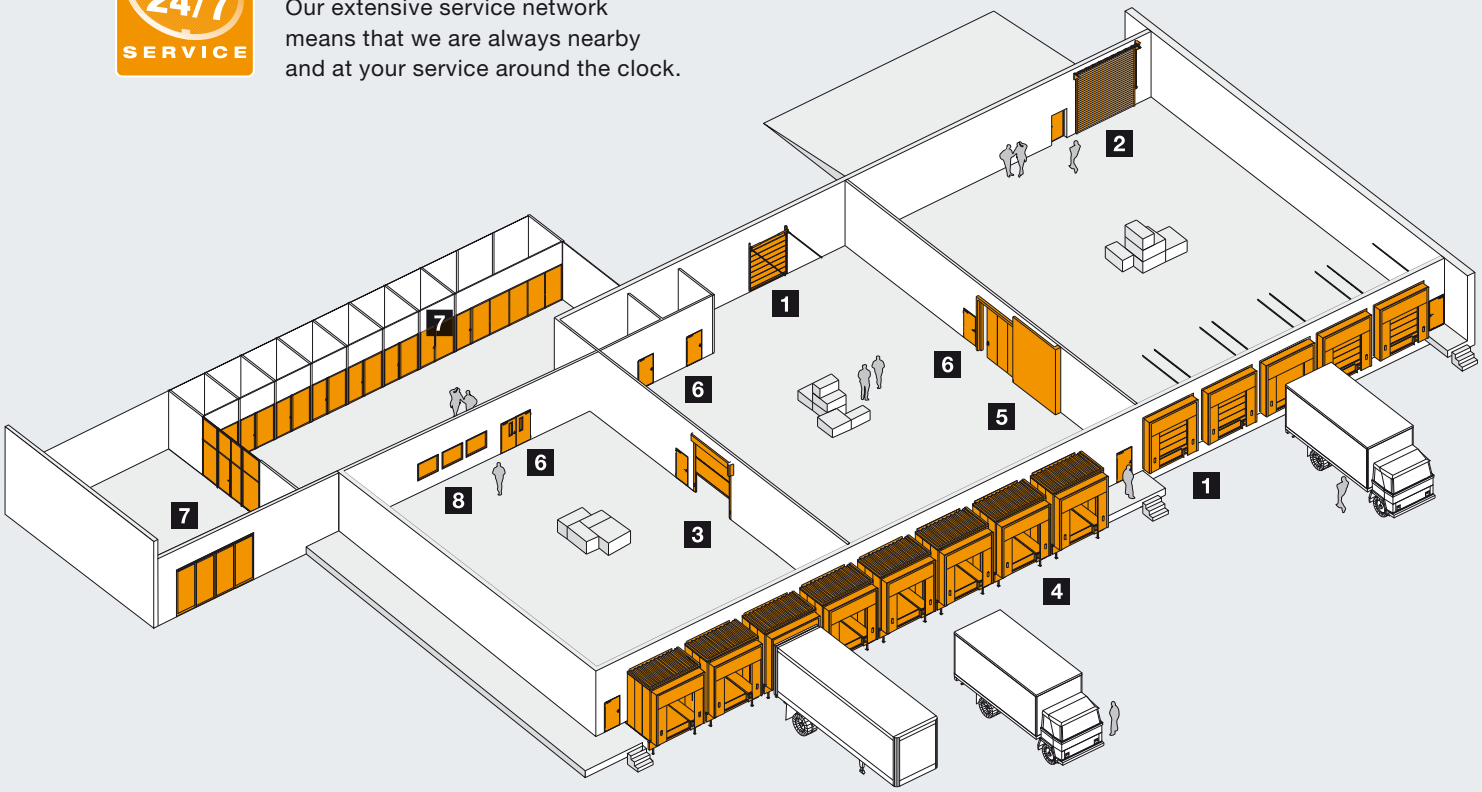
Multi-function doors
and reinforced internal doors

Fire and smoke-protection box
frame parts

Visibility window

24/7 SERVICE

Quick service with testing, maintenance and repairs
Our extensive service network means that we are always nearby and at your service around the clock.



Hörmann: Quality without Compromise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Hörmann KG Antriebstechnik, Germany


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GARAGE DOORS

OPERATORS

INDUSTRIAL DOORS

LOADING EQUIPMENT

HINGED DOORS

DOOR FRAMES

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