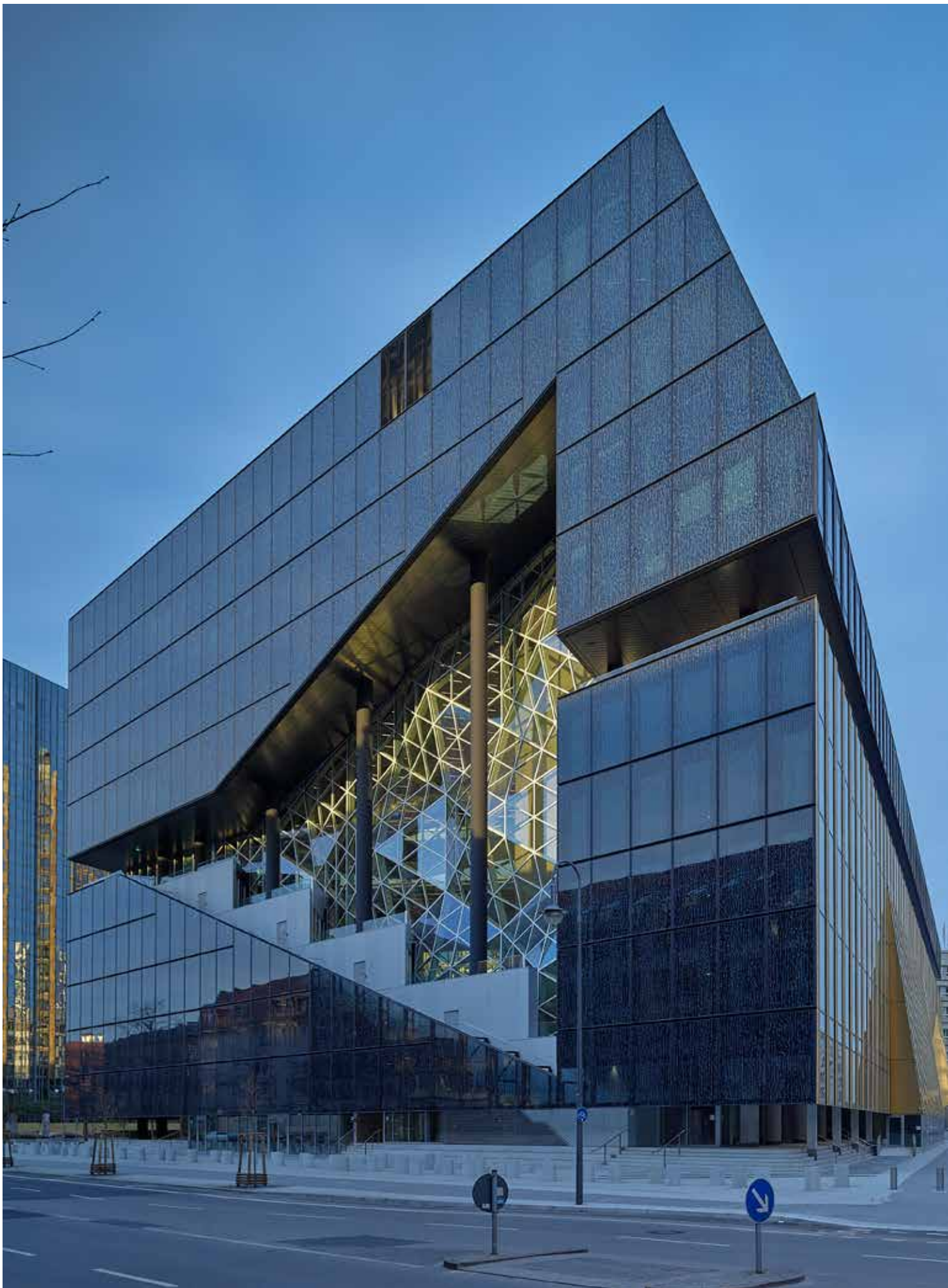




STEEL CONSTRUCTION PROJECT DOORS OD

Internal and external doors with and without fire protection requirements

HÖRMANN





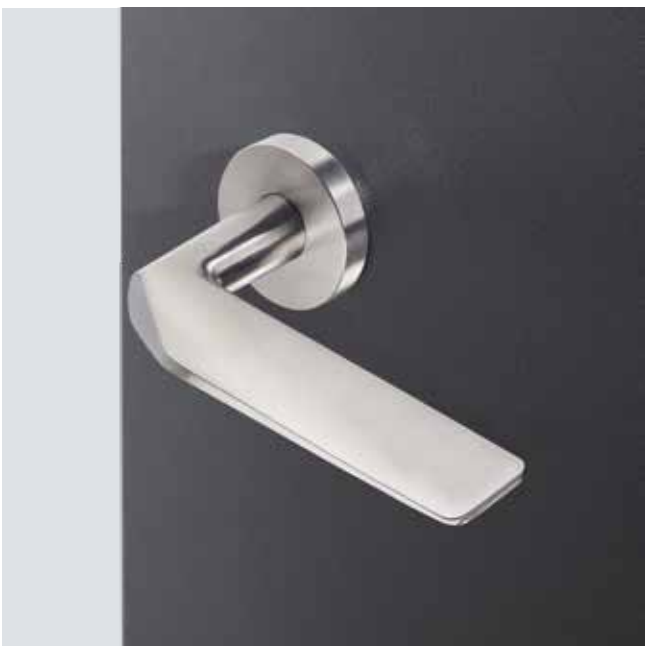
04

Good reasons
to try Hörmann
construction
project doors.



14

Application areas.



21

Versions.
Equipment.
Technology.

Brand quality made in Germany



The family-owned company Hörmann offers all important construction components for building and renovating projects from a single source. We manufacture in highly specialised factories using state-of-the-art production technologies. Our employees work intensively on new products, continual further developments and improvements to details. The results are patents and unique products on the market.





AN EYE ON THE FUTURE. Hörmann is setting a good example. That's why 100% of our electricity needs in Germany come from green electricity. Together with an intelligent and certified energy management system, CO₂-neutral mailing and the recycling of valuable materials, more than 40000 tons of CO₂ are saved each year. In addition, we offset over 100000 tons of CO₂ by promoting wind energy and reforestation projects in cooperation with ClimatePartner.



You can find further information at
www.hoermann.de/umwelt



Sustainable planning for trend-setting construction

Experienced specialists within our customer-oriented sales organisation accompany you from the planning stage, through technical clarification up to the final building inspection. Complete working documentation, such as technical manuals, is also always accessible and up-to-date at www.hoermann.com





SUSTAINABILITY DOCUMENTED. Hörmann has already received confirmation of sustainability through an Environmental Product Declaration (EPD) in accordance with ISO 14025 from the Institut für Fenstertechnik (ift – Institute of window technology) in Rosenheim, Germany. This EPD was created based on EN ISO 14025:2011 and EN 15804:2012. In addition, the general guidelines for the preparation of type III Environmental Product Declaration apply. The declaration is based on the PCR document “Doors” PCR-TT-1.1:2011.



ARCHITECTS' PROGRAM. Clearly structured navigation via drop-down menus and symbols, as well as a search function, provide faster access to texts for invitations to tenders and more than 9000 drawings (in DWG and PDF format) of over 850 Hörmann products. In addition, BIM data can be provided for many products for the Building Information Modelling process, enabling efficient planning, drafting, construction and management of buildings. Photos and photo-realistic presentations provide additional information on many products.



Plan with the Architects' Program at www.architektenprogramm.hoermann.de



**PRODUCTS
FOR BIM**

We are a member of the professional association for digital building products in the Federal Association of Building Systems e.V.

Developed for the future in every respect

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 authorised test centres for official approvals.





T30 / EI₂₃₀ Fire-retarding



T60 / EI₂₆₀ High fire resistance



T90 / EI₂₉₀ Fire-proof



RS / S₂₀₀ Smoke-tight



S_a Sealed



Self-closing C5



Acoustic-rated



Break-in-resistant RC 2



Break-in-resistant RC 3



Break-in-resistant RC 4



ATEX

NATIONAL AND EUROPEAN INSPECTIONS. Internal and external doors have different requirements for fire protection and performance characteristics, such as wind load or water tightness under heavy rain. Internal doors with fire protection characteristics are tested and certified in accordance with German standard DIN 4102 and European standard EN 1634. The performance characteristics of external doors are tested and classified in accordance with the European standards EN 16034 and EN 14351-1 and documented in the declaration of performance (DoP).

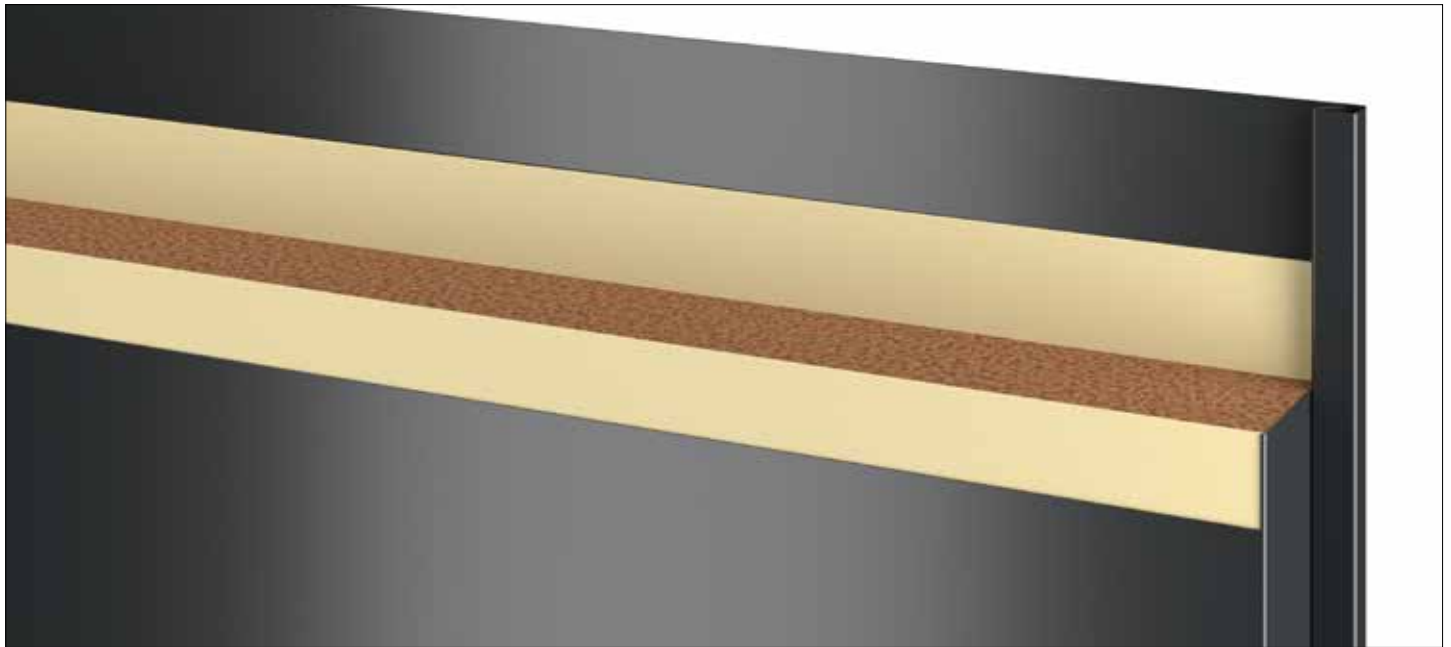
→ For further information, see from page 22.



A premium appearance in every regard

The steel construction project doors OD impress with their permanently flush surface. As such, you can create a harmonious appearance for doors throughout your property – regardless of their functionality – and enjoy high-quality details such the flush-fitting door leaf transition in double-leaf doors.





65 mm door leaf thickness
OD version



Thin rebate
Standard



Thick rebate
Optional



7 preferred colours

DOOR LEAF GLUED OVER THE ENTIRE SURFACE. The fully bonded composite construction in the door leaf and in the rebate ensures particularly high stability and leaf strength. Their advantage: Unevenness in the door leaf is virtually eliminated. What's more, the door always closes securely and accurately with a satisfying noise.

MATCHING DOOR VIEW. To ensure a harmonious appearance of doors throughout your property, you can opt for steel construction project doors OD in a thin rebate version – regardless of their functionality – or also in an optional thick rebate version with extra visual appeal.

SURFACE FINISHES AND COLOURS. Door leaves and frames are galvanized as standard and primed in RAL 9002 Grey white. Our doors are optionally available in 7 preferred colours, in RAL to choose and in special NCS colours.

→ For further information, see from page 33.

Frame systems for all your requirements

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 level of resistance. Individual frame solutions in genuine Hörmann quality are also available for your wall type.





STANDARD FRAMES. With our corner frames **1** you can fit construction project doors OD more quickly, easily and flexibly. The frame is quickly fitted with just a few screw connections using diagonal fixing as standard. Using optional fitting packages, the frame can be easily adapted to different fitting situations.



READY-MADE FRAME. The Hörmann DryFix frame **2** is the ideal solution for simple, quick and clean fitting. The advantage: The 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. The DryFix frame is particularly suitable for fitting to existing structures as it can easily be retrofitted.



WITH CONCEALED SCREW FITTING. The 2-part profile frame **3** is particularly suited to retrofitting. First, only the corner frame profile is mounted. After this step, the door leaf can be adjusted so that it is optimally fitted to the seal. Next, the counter frame is fitted and both frame profiles are fastened with screws concealed in the sealing groove.

→ For further information, see from page 46.

RESIDENTIAL AND COMMERCIAL CONSTRUCTION. Smoke and fire damage can have considerable, even life-threatening results. This makes safe equipment with fire-rated and smoke-tight doors even more crucial. In addition to the main function of the construction project doors (e.g. fire protection), the functions can be extended according to individual requirements. As a result, you can reliably protect your emergency exits against attempted break-ins with break-in-resistant doors in resistance classes RC 2 or RC 3. You can rely on Hörmann construction project doors that are tested and officially approved.

→ For further information, see from page 22.





L&T Osnabrück

Architect: Prof. Moths Architekten, Hamburg

Hörmann products

- Steel and stainless steel construction project doors
- Steel and aluminium tubular frame construction project doors

OFFICES AND PRODUCTION BUILDINGS.

Steel construction project doors are the ideal solution for any application with strict requirements. In environments at risk of explosions, you can receive specially equipped doors that prevent sparks and electronic charges, removing the risk of explosion.

→ For further information, see from page 22.





Eberspächer catem, Hermsdorf

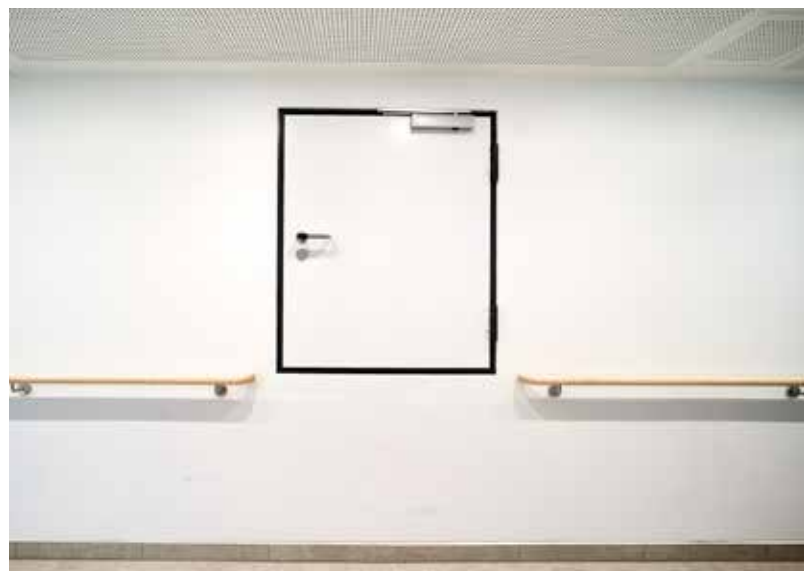
Architect: Architekturbüro für Industrie- und Hochbau
CML, Weimar

Hörmann products

- Steel and stainless steel construction project doors
- Steel and aluminium tubular frame construction project doors

HOSPITALS AND PUBLIC BUILDINGS. For barrier-free access, all steel construction project doors can be equipped with an operator, which you can activate using a button or radar / movement detectors. Also, a door with a barrier-free overhead door closer is possible, which allows the door to be opened with little effort.

→ For further information, see from page 22.





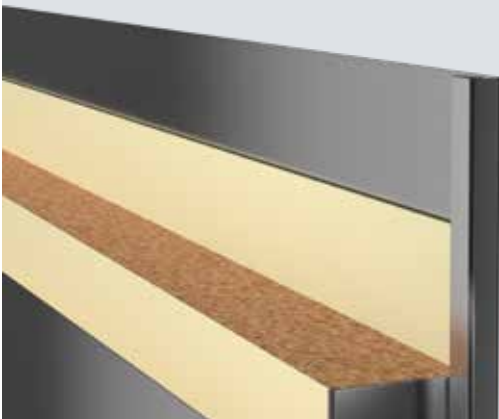
Schleswig-Holstein University Hospital, Lübeck
 Architect: HDR Germany, tsj architekten, Lübeck, sander,
 hofrichter architekten GmbH, Ludwigshafen and JSWD
 Architekten GmbH & Co. KG, Cologne

Hörmann products

- Steel and stainless steel construction project doors
- Steel and aluminium tubular frame construction project doors



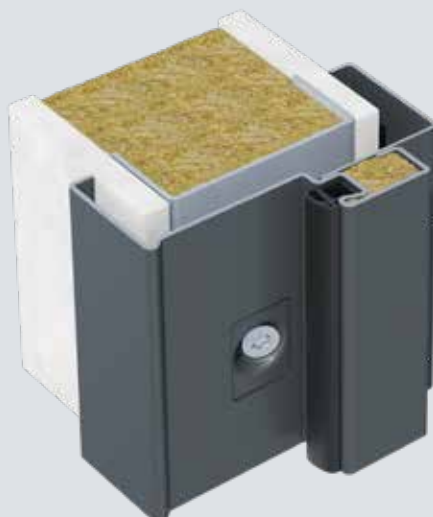
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Versions. Equipment. Technology.

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Internal doors

Functions, performance characteristics, size ranges
























Door type	H3-1 OD	H3-2 OD	H3 G-1	H3-2 VM
Version	Single-leaf	Double-leaf	Single-leaf	Double-leaf
 T30 Fire-retarding	■	■	■	■
 T60 High fire resistance				
 T90 Fire-proof				
 RS Smoke-tight	●	●	●	●
 Acoustic-rated	●	●		
 Break-in-resistant RC 2	●	●		
 Break-in-resistant RC 3	●	●		
 Break-in-resistant RC 4	●			
 ATEX	●	●	●	●
Construction	Glued over the entire surface	Glued over the entire surface	Welded	Welded
Door leaf	65 mm	65 mm	65 mm	65 mm
Sheet thickness	1.0 / 1.5 mm	1.0 / 1.5 mm	1.5 mm	1.5 mm
Rebate type	Thin / thick rebate	Thin / thick rebate	Thin rebate	Thin / thick rebate
Additional performance characteristics				
Acoustic insulation	32 – 43 dB	32 – 43 dB		
Transmission of heat	1.5 – 1.7 W/(m ² ·K)	1.5 – 1.7 W/(m ² ·K)	1.8 W/(m ² ·K)	1.7 W/(m ² ·K)
Pressure load	Up to 8000 Pa	Up to 2000 Pa		
Fitting in				
Brickwork	≥ 115 mm / ≥ 175 mm ²⁾	≥ 115 mm / ≥ 175 mm ²⁾	≥ 175 mm	≥ 175 mm
Concrete	≥ 100 mm / ≥ 140 mm ²⁾	≥ 100 mm / ≥ 140 mm ²⁾	≥ 140 mm	≥ 140 mm
Gas concrete blocks / boards	≥ 150 mm	≥ 150 mm	≥ 175 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		
Prefabricated walls according to DIN 4102-4, tab. 10.2			≥ 100 mm	≥ 100 mm
F90A walls according to DIN 4102-4, tab. 10.2				
Size range				
Nominal size width (ordering size)	500 – 1500 mm	1375 – 3000 mm	625 – 1500 mm	1375 – 3000 mm
Nominal size height (ordering size)	500 – 2500 mm	1750 – 2500 mm	2501 – 3250 mm	2501 – 3500 mm
Nominal size height with fixed top part	Up to 3500 mm	Up to 3500 mm		
Traffic leaf width		750 – 1500 mm		1000 – 1500 mm ³⁾
Fixed leaf width		500 – 1500 mm		500 – 1500 mm ³⁾

■ = Main function – as standard ● = Additional function – with corresponding equipment

¹⁾ not in combination with glazing










²⁾ for doors with top part

³⁾ for thick rebate up to 1375 mm

H6-1 OD	H6-2 OD	H16-1 OD	H16-2 OD	H16 G-1	H16 G-2
Single-leaf	Double-leaf	Single-leaf	Double-leaf	Single-leaf	Double-leaf
					
					
					
		 ¹⁾	 ¹⁾		
		 ¹⁾			
		 ¹⁾			
					
Glued over the entire surface	Glued over the entire surface	Glued over the entire surface	Glued over the entire surface	Welded	Welded
65 mm	65 mm	65 mm	65 mm	65 mm	78 mm
1.0 / 1.5 mm	1.0 mm	1.0 / 1.5 mm	1.0 mm	1.5 mm	1.5 mm
Thin / thick rebate	Thin / thick rebate	Thin / thick rebate	Thin / thick rebate	Thin rebate	Thin rebate
32 – 33 dB	36 – 39 dB	35 – 42 dB	35 – 42 dB		
1.5 – 1.7 W/(m ² ·K)	1.6 – 1.8 W/(m ² ·K)	1.5 – 1.7 W/(m ² ·K)	1.6 W/(m ² ·K)	1.8 W/(m ² ·K)	
Up to 8000 Pa	Up to 8000 Pa	Up to 8000 Pa	Up to 2000 Pa		
≥ 175 mm	≥ 175 mm	≥ 175 mm	≥ 175 mm	≥ 240 mm	≥ 240 mm
≥ 140 mm	≥ 140 mm	≥ 140 mm	≥ 140 mm	≥ 140 mm	≥ 140 mm
≥ 150 mm	≥ 200 mm	≥ 200 mm	≥ 200 mm	≥ 200 mm	≥ 200 mm
≥ 100 mm	≥ 125 mm				
		≥ 100 mm	≥ 150 mm		
500 – 1250 mm	1375 – 2500 mm	500 – 1500 mm	1375 – 2500 mm	625 – 1500 mm	1375 – 3000 mm
500 – 2500 mm	1750 – 2500 mm	500 – 2500 mm	1750 – 2500 mm	2501 – 3250 mm	2501 – 3250 mm
	750 – 1250 mm		750 – 1250 mm		750 – 1500 mm
	500 – 1250 mm		500 – 1250 mm		500 – 1500 mm

Internal doors

Functions, performance characteristics, size ranges










Door type	D65-1 OD	D65-2 OD	D65-1	D65-2 VM
Version	Single-leaf	Double-leaf	Single-leaf	Double-leaf
 T30 Fire-retarding				
 T60 High fire resistance				
 T90 Fire-proof				
 RS Smoke-tight	●	●	●	●
 Acoustic-rated	●	●		
 Break-in-resistant RC 2	● ¹	● ¹		
 Break-in-resistant RC 3	● ¹	● ¹		
 Break-in-resistant RC 4	● ¹			
 ATEX	●	●		
Construction	Glued over the entire surface	Glued over the entire surface	Welded	Welded
Door leaf	65 mm	65 mm	65 mm	65 mm
Sheet thickness	1.0 / 1.5 mm	1.0 / 1.5 mm	1.5 mm	1.5 mm
Rebate type	Thin / thick rebate	Thin / thick rebate	Thin rebate	Thin rebate
Additional performance characteristics				
Acoustic insulation	32 – 43 dB	32 – 43 dB		
Transmission of heat	1.5 – 1.7 W/(m ² ·K)	1.5 – 1.7 W/(m ² ·K)	1.8 W/(m ² ·K)	1.7 W/(m ² ·K)
Pressure load	Up to 8000 Pa	Up to 2000 Pa		
Fitting in				
Brickwork	≥ 115 mm	≥ 115 mm	●	●
Concrete	≥ 100 mm	≥ 100 mm	●	●
Gas concrete blocks / boards	≥ 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	●	●
Size range				
Nominal size width (ordering size)	500 – 1500 mm	1375 – 3000 mm	625 – 1500 mm	1375 – 3000 mm
Nominal size height (ordering size)	500 – 2500 mm	1750 – 2500 mm	2501 – 3500 mm	2501 – 3500 mm
Nominal size height with fixed top part	Up to 3500 mm	Up to 3500 mm	Up to 3500 mm	Up to 3500 mm
Traffic leaf width		750 – 1500 mm		750 – 1500 mm
Fixed leaf width		500 – 1500 mm		500 – 1500 mm

■ = Main function – as standard ● = Additional function – with corresponding equipment

¹⁾ not in combination with glazing

Internal doors, high acoustic rating up to 61 dB

Functions, performance characteristics, size ranges

Door type	HS75-1	H16 S-1
Version	Single-leaf	Single-leaf
 T30 Fire-retarding		
 T60 High fire resistance		
 T90 Fire-proof		■
 RS Smoke-tight	●	●
 High acoustic rating	■	■
 Break-in-resistant RC 2	● ¹	● ¹
 Break-in-resistant RC 3		
 Break-in-resistant RC 4		
 ATEX		
Construction	Welded	Welded
Door leaf	75 mm	75 mm
Sheet thickness	1.0 mm	1.0 mm
Rebate type	Thick rebate	Thick rebate
Additional performance characteristics		
Acoustic insulation	50 – 61 dB	50 – 61 dB
Transmission of heat	2.1 W/(m ² ·K)	2.1 W/(m ² ·K)
Pressure load		
Fitting in		
Brickwork	≥ 175 mm	≥ 175 mm
Concrete	≥ 120 mm	≥ 120 mm
Gas concrete blocks / boards	≥ 175 mm	≥ 175 mm
Prefabricated walls according to DIN 4102-4, tab. 48		
Prefabricated walls according to DIN 4102-4, tab. 49		
Size range		
Nominal size width (ordering size)	625 – 1250 mm	625 – 1250 mm
Nominal size height (ordering size)	1750 – 2250 mm	1750 – 2250 mm
Nominal size height with fixed top part		
Traffic leaf width		
Fixed leaf width		

■ = Main function – as standard

● = Additional function – with corresponding equipment

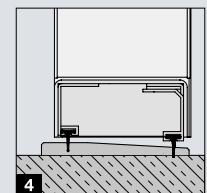
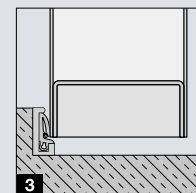
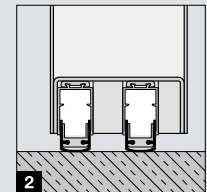
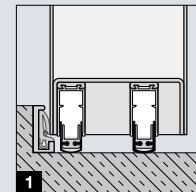
¹⁾ not in combination with glazing

Acoustic rating category HS 75-1 and H16 S-1

Acoustic rating category	IV	V
1 With threshold rail with seal and 2 retractable bottom seals (type G1)	-	53 dB
2 With 2 retractable bottom seals (type G2)	52 dB	-
3 With threshold rail with seal (type G3)	51 dB	-












For special requirements

Acoustic rating category	VI
2 With 2 retractable bottom seals (type G2)	59 dB
3 With threshold rail with seal (type G3)	61 dB
4 With 2 aluminium bottom profiles with seal and stepped threshold (type G4)	59 dB

































External doors

Functions, performance characteristics, size ranges

Door type	H3-1 OD	H3-2 OD	H3-2 VM
Version	Single-leaf	Double-leaf	Double-leaf
 EI₂30 Fire-retarding	■	■	■
 EI₂60 High fire resistance			
 EI₂90 Fire-proof			
 S₂₀₀ Smoke-tight	●	●	●
 S_a Sealed	■	■	■
 Self-closing C5	■	■	■
 Acoustic-rated	●	●	
 Break-in-resistant RC 2	●	●	
 Break-in-resistant RC 3	●	●	
 Break-in-resistant RC 4	●		
 ATEX	●	●	
Construction	Glued over the entire surface	Glued over the entire surface	Welded
Door leaf	65 mm	65 mm	65 mm
Sheet thickness	1.0 / 1.5 mm	1.0 / 1.5 mm	1.5 mm
Rebate type	Thin / thick rebate	Thin / thick rebate	Thin / thick rebate
Additional performance characteristics			
Resistance to wind load	Class C3	Class C2	
Water tightness under heavy rain			
Opening inwards	Unprotected 3A		
Opening outwards	Unprotected 3A / protected 7B	Protected 5B	
Acoustic insulation	32 – 43 dB	32 – 43 dB	
Transmission of heat	1.5 – 1.7 W/(m ² ·K)	1.5 – 1.7 W/(m ² ·K)	1.7 W/(m ² ·K)
Air permeability	Class 4	Class 2	
Impact resistance	Class 2		
Operating forces	Class 2	Class 2	
Mechanical strength	4 (2 for glazing)	4 (2 for glazing)	
Pressure load	Up to 8000 Pa	Up to 2000 Pa	
Fitting in			
Brickwork	≥ 115 mm	≥ 115 mm	≥ 175 mm
Concrete	≥ 100 mm	≥ 100 mm	≥ 140 mm
Gas concrete blocks / boards	≥ 150 mm	≥ 150 mm	≥ 175 mm
Prefabricated wall	≥ 100 mm	≥ 100 mm	≥ 100 mm
Size range			
Nominal size width (ordering size)	500 – 1500 mm	1375 – 2500 mm	1375 – 2750 mm
Nominal size height (ordering size)	500 – 2500 mm	1750 – 2500 mm	2501 – 2750 mm
Traffic leaf width		750 – 1500 mm	750 – 1500 mm
Fixed leaf width		500 – 1500 mm	500 – 1500 mm












■ = Main function – as standard ● = Additional function – with corresponding equipment

¹⁾ not in combination with glazing

H6-1 OD	H6-2 OD	H16-1 OD	H16-2 OD
Single-leaf	Double-leaf	Single-leaf	Double-leaf
			
			
			
			
			
			
			
			
			
Glued over the entire surface	Glued over the entire surface	Glued over the entire surface	Glued over the entire surface
65 mm	65 mm	65 mm	65 mm
1.0 / 1.5 mm	1.0 mm	1.0 / 1.5 mm	1.0 mm
Thin / thick rebate	Thin / thick rebate	Thin / thick rebate	Thin / thick rebate
		Class C3	
		1B protected / 4B protected	
32 – 33 dB	36 – 39 dB	35 – 42 dB	35 – 42 dB
1.5 – 1.7 W/(m ² ·K)	1.6 W/(m ² ·K)	1.5 – 1.7 W/(m ² ·K)	1.6 W/(m ² ·K)
		Class 3	
Up to 8000 Pa	Up to 2000 Pa	Up to 8000 Pa	Up to 2000 Pa
≥ 175 mm	≥ 175 mm	≥ 175 mm	≥ 175 mm
≥ 140 mm	≥ 140 mm	≥ 140 mm	≥ 140 mm
≥ 150 mm	≥ 200 mm	≥ 200 mm	≥ 200 mm
≥ 100 mm	≥ 125 mm	≥ 100 mm	≥ 150 mm
500 – 1250 mm	1375 – 2500 mm	500 – 1500 mm	1375 – 2500 mm
500 – 2500 mm	1750 – 2500 mm	500 – 2500 mm	1750 – 2500 mm
	750 – 1250 mm		750 – 1250 mm
	500 – 1250 mm		625 – 1250 mm

External doors

Functions, performance characteristics, size ranges

Element type	D65-1 OD	D65-2 OD	D65-1	D65-2 VM
Version	Single-leaf	Double-leaf	Single-leaf	Double-leaf
 EI₂30 Fire-retarding				
 EI₂60 High fire resistance				
 EI₂90 Fire-proof				
 S₂₀₀ Smoke-tight	●	●		
 S_a Sealed				
 Self-closing C5	■	■	■	■
 Acoustic-rated	●	●		
 Break-in-resistant RC 2	●	●		
 Break-in-resistant RC 3	●	●		
 Break-in-resistant RC 4	●			
 ATEX	●	●		
Construction	Glued over the entire surface	Glued over the entire surface	Welded	Welded
Door leaf	65 mm	65 mm	65 mm	65 mm
Sheet thickness	1.0 / 1.5 mm	1.0 / 1.5 mm	1.5 mm	1.5 mm
Rebate type	Thin / thick rebate	Thin / thick rebate	Thin rebate	Thin rebate
Additional performance characteristics				
Resistance to wind load	Class C3	Class C2		Class C2
Water tightness under heavy rain				
Opening inwards	Unprotected 3A			
Opening outwards	Unprotected 3A / protected 7B	Protected 2B or 5B		
Acoustic insulation	32 – 43 dB	32 – 43 dB		
Transmission of heat	1.5 – 1.7 W/(m ² ·K)	1.5 – 1.7 W/(m ² ·K)	1.8 W/(m ² ·K)	1.7 W/(m ² ·K)
Air permeability	Class 4	Class 2	Class 3 – 4	Class 2
Impact resistance	Class 2			
Operating forces	Class 2	Class 2		
Mechanical strength	4 (2 for glazing)	4 (2 for glazing)		
Pressure load	Up to 8000 Pa	Up to 2000 Pa		
Fitting in				
Brickwork	≥ 115 mm	≥ 115 mm	●	●
Concrete	≥ 100 mm	≥ 100 mm	●	●
Gas concrete blocks / boards	≥ 150 mm	≥ 175 mm	●	●
Prefabricated walls	≥ 100 mm	≥ 100 mm	●	●
Size range				
Nominal size width (ordering size)	500 – 1500 mm	1375 – 3000 mm	625 – 1500 mm	1375 – 3000 mm
Nominal size height (ordering size)	500 – 2500 mm	1750 – 2500 mm	2501 – 3500 mm	2501 – 3500 mm
Traffic leaf width		750 – 1500 mm		750 – 1500 mm
Fixed leaf width		500 – 1500 mm		500 – 1500 mm

■ = Main function – as standard ● = Additional function – with corresponding equipment

CE marking and declaration of performance in accordance with EN 16034 and EN 14351-1

The goal of the product standards DIN EN 16034 and DIN EN 14351-1 is to establish Europe-wide standards for the properties and performance classes of external doors, regardless of their material, and to set out the inspections and certificates required for these. With these product standards, planners, consumers and manufacturers receive the basis for assessing doors with a performance- and function-oriented approach. The CE marking is a visible signal for compliance with these standards. CE stands for the European Community and acts as a form of passport for products within the EU. With the CE marking and submission of its declaration of performance (DoP), Hörmann confirms the product's conformity with the European product standards and guidelines on the delivery point named in the declaration.



You can access the declaration of performance in accordance with the German Construction Products Regulation directly via the following link:

www.hoermann.de/leistungserklaerung-nach-baupvo



Standard equipment

Quality down to the last detail in all steel construction project doors



Securely locked **1**

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

Stylish, high-quality lever handles

The FS round lever handle set is both convenient and stable, and is fitted to your steel construction project door in a black polypropylene version **2** as standard. A short escutcheon, a securely fitted lever handle and a deadlock insert with a key complete the high-quality standard equipment. Break-in-resistant doors are supplied with an FS security handle set made of aluminium **3**, tested in accordance with EN 1906 / DIN 18257 class ES 1 (short escutcheon) or ES 2 / ES 3 (long escutcheon) with cylinder cover and drill-proof profile cylinder.



Maintenance-friendly hinges **4**

Our construction project doors are equipped with 2 robust hinge sets with ball-bearing. Construction project doors OD provide additional comfort: The maintenance-friendly rolling bearings **5** on the door leaf can be easily and conveniently replaced.

Sturdy security bolts **6**

On fire-rated and smoke-tight doors, heavy-duty steel security bolts on the hinge side provide additional stability in the case of a fire. Break-in-resistant doors are protected against possible forced opening with additional solid steel security bolts (depending on the resistance class).

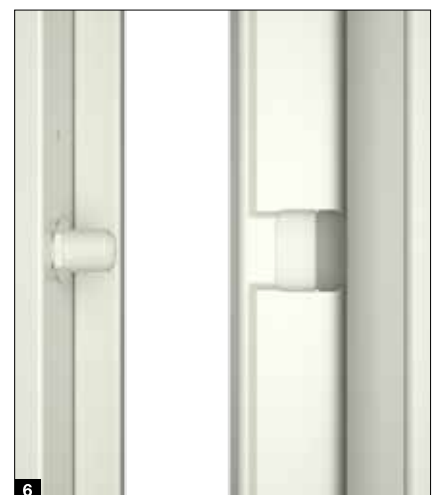


Self-closing function as standard

The standard self-closing function makes every 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) **7**.

Double-leaf fire-rated and smoke-tight doors are equipped with a linkage door closer as standard. The mechanical door leaf selector ensures the correct locking sequence for both door leaves.

→ For further information, see from page 40.



Optional equipment

Quality down to the last detail in all steel construction project doors

Perfectly adjustable 3-way hinges

Use the optional and practical 3-way adjustable hinges to re-adjust your construction project door. Even small fitting deviations can easily be compensated for. The 3-way adjustable hinges are also available with an inconspicuous spring hinge (depending on size and equipment). Fitting an overhead door closer can be omitted. The hinges are available in a galvanized powder-coated **1** (as standard for high acoustic-rated doors) or a high-quality stainless steel version **2**.



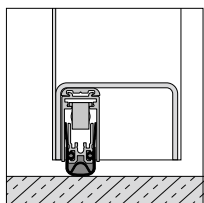
Door bottom edges

Depending on the performance characteristics required for the doors (e.g. smoke protection, acoustic insulation, thermal insulation, water tightness under heavy rain) and the ground conditions, different sealing systems can or have to be used. Sealing systems tailored to the door and the fitting situation in the building ensure that the gap between the door and floor is sealed.

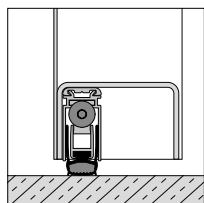
The retractable bottom seal with delayed closing **3** ensures easy door movement as well as precise sealing. Due to optimum air and pressure compensation, doors in air locks and small rooms as well as doors on steps and pedestals can be safely closed.



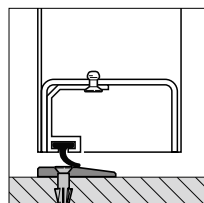
Door bottom edges



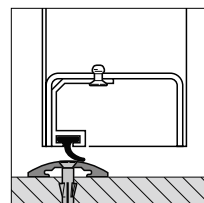
Retractable bottom seal, mechanical, type A1



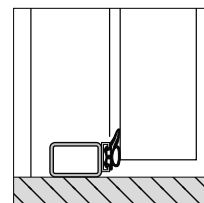
Hydraulic retractable bottom seal, delayed, type A2



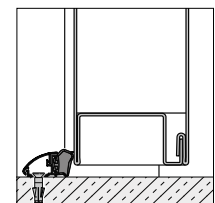
Aluminium bottom profile with seal and protruding threshold, type B1



Aluminium bottom profile with seal and semi-circular threshold, type B2

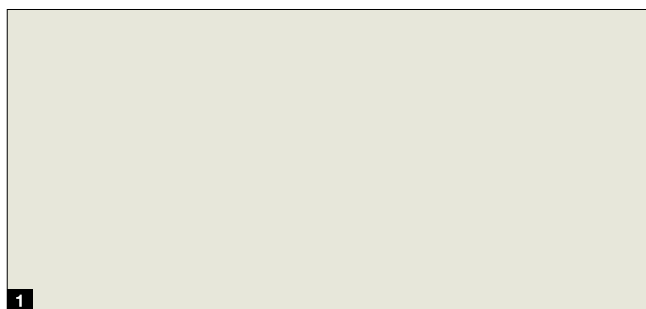


Steel C-profile threshold rail with seal, type C1



Aluminium threshold rail with seal and cover profile, type C2

Priming (standard)



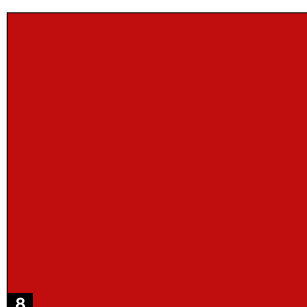
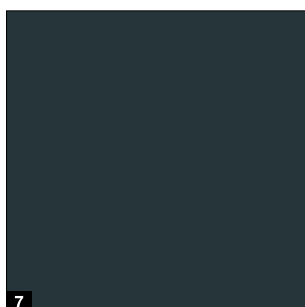
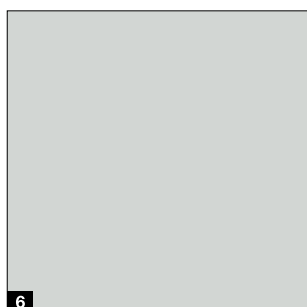
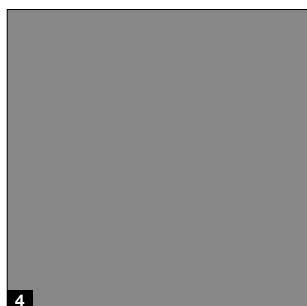
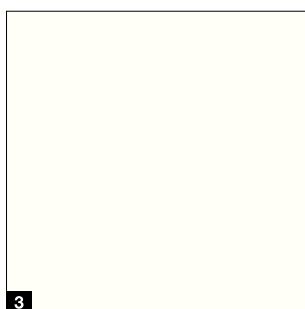
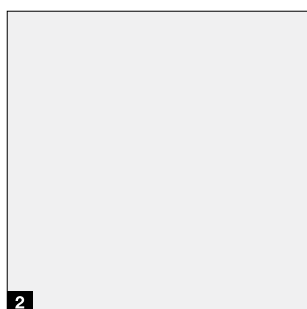
Priming

- 1 RAL 9002 Grey white (standard)

Preferred colours

- 2 RAL 9016 Traffic white
- 3 RAL 9010 Pure white
- 4 RAL 9007 Grey aluminium
- 5 RAL 9005 Jet black
- 6 RAL 7035 Light grey
- 7 RAL 7016 Anthracite grey
- 8 RAL 3000 Flame red

7 preferred colours



Cover caps

The cover caps for the block frame and profile frame are available in the preferred colours. In all other colours, the cover caps are supplied as transparent versions.

RAL to choose

We also supply all doors optionally in RAL to choose, metallic colours or NCS colours.

Please note:

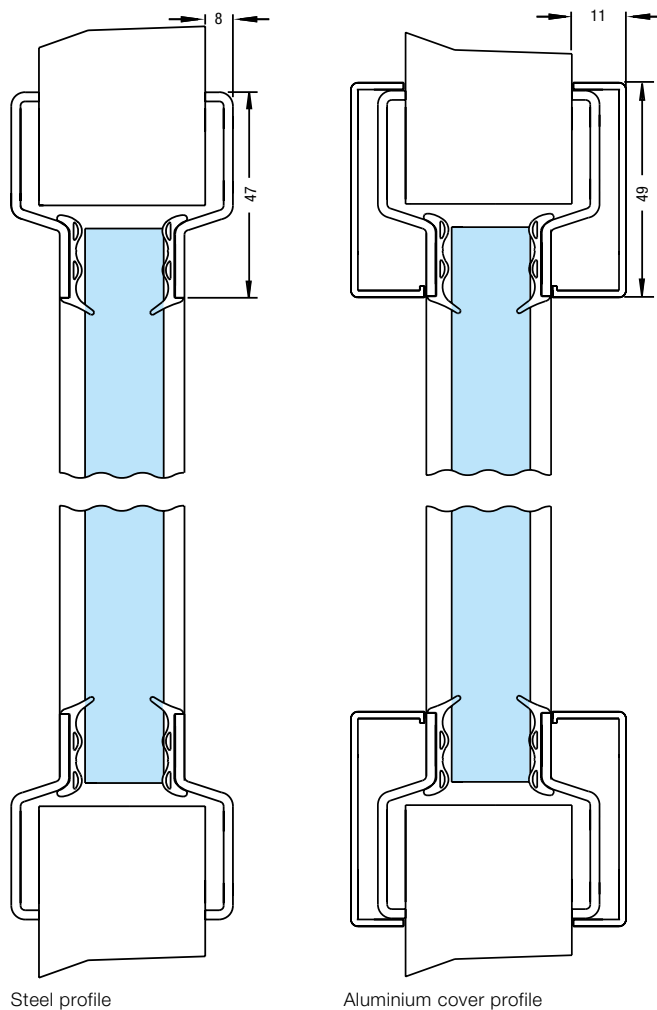
All colours based on RAL. The colours and surface finishes shown are subject to the limitations of the printing process and cannot be regarded as binding.

Glazing

For more light and ventilation

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 anodised with a natural finish (F1).



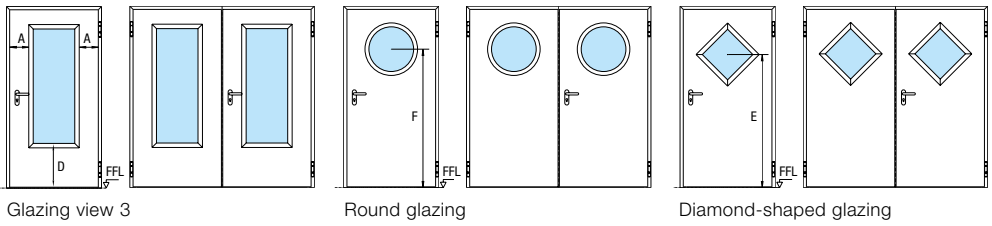
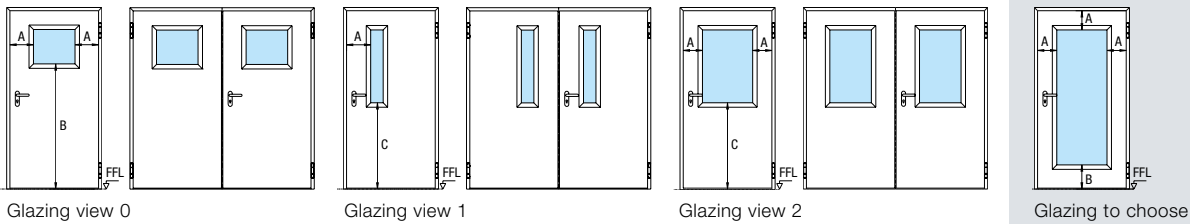
Steel profile in Grey white



Stainless steel profile



Aluminium cover profile



Special glazing available on request
 In addition to the glazing referred to on the left we also supply special single or multi-pane glazing in various shapes and arrangements within the permitted distance to side, bottom section height and glazing size.

A = Distance to side 268 mm
 B = Bottom section height from FFL: 1400 mm
 C = Bottom section height from FFL: 965 mm
 D = Bottom section height from FFL: 500 mm
 E = State axis dimension from FFL!
 F = Axis dimension from FFL: 1550 mm
 depending on glazing size and door variant, state axis dimension from FFL in case of deviations from the standard!

Internal doors	H3 OD	H3 VM	H3 G	H6 OD ¹⁾	H16 OD	H16 G	HS 75	H16 S	D65 OD ²⁾	D65	D65 VM
View 0	○	○	○	○	-	○	-	-	●	●	-
View 1	●	●	●	●	●	●	-	-	●	●	-
View 2	●	●	●	●	●	●	-	-	●	●	-
View 3 ³⁾	●		●	●	●	●	-	-	●	-	-
Round glazing	●	●	●	●	-	●	-	-	●	●	-
Diamond-shaped glazing	-	○	○	○	-		-	-	●	●	-
Glazing to choose	●	●	●	●	-	●	-	-	●	●	-

External doors	H3 OD	H3 VM	H6 OD	H16 OD	D65 OD ²⁾
View 0	○	-	-	-	●
View 1	●	-	-	-	●
View 2	●	-	-	-	●
View 3 ³⁾	●	-	-	-	●
Round glazing	●	-	-	-	●
Diamond-shaped glazing		-	-	-	●
Glazing to choose	●	-	-	-	●

● = Standard ○ = Optional - = Not available

¹⁾ With glazing, delivered as H6 classic

²⁾ In RC equipment, glazing on request

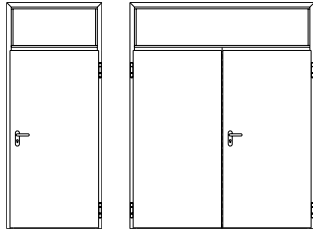
³⁾ Not available in RC equipment

Top parts and ventilation grilles

For more light and ventilation

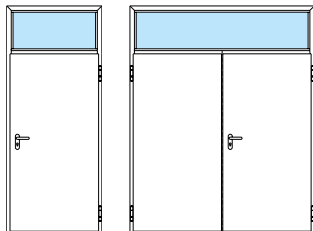
Fixed top parts

The top parts allow you to individually design room-high doors for your facility. You benefit from a harmonious door appearance thanks to continuous frame profiles.



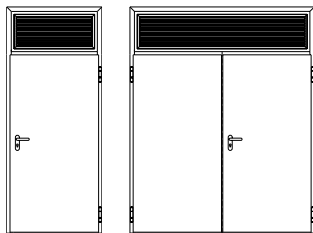
With steel panel

Height Min. 250 mm
Max. 1000 mm



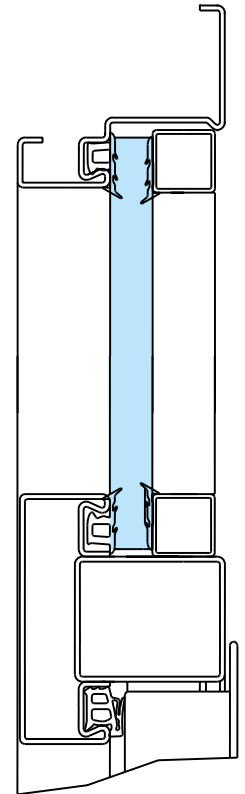
With glazing

Height Min. 250 mm
Max. 1000 mm



With ventilation grille

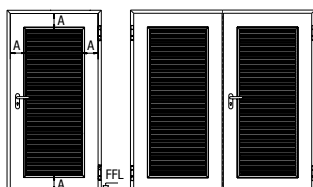
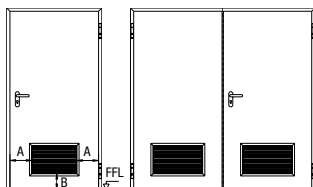
Height Min. 250 mm
Max. 1000 mm



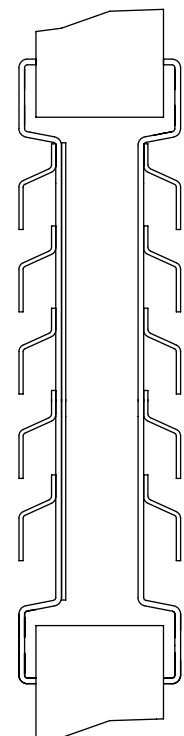
Top part

Ventilation grille

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).



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



Ventilation grille

Special equipment

For barrier-free construction, an exclusive appearance and increased comfort



Locks

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

Optional special and additional locks:

- Mortice locks with various escape door functions
- Double cylinder lock (locked with 2 different cylinders)
- Bolt lock, additionally prepared for profile cylinder
- Block lock
- Automatic door opener
- Self-locking escape door lock



Electrical equipment

In the facility, door assemblies are often equipped with alarm, escape-route security or access control systems.

Various components are available according to your needs:

- Door monitor (image on left)
- Latch contact
- Reed contact
- Electric door strike
- Escape door opener
- Alarm loop
- Automatic door opener
- Door lock
- Electronic alarm contact elements
- Concealed electro duct



Escape and rescue routes

Special fittings and lock equipment are stipulated in escape and rescue routes. Hörmann offers you a wide range of different equipment variants for your respective needs.

Emergency exit locks according to DIN EN 179

- Door fittings in the form of anti-panic or lever / knob handle sets with short or rose escutcheon with matching handles
- Lock with escape door function DIN EN 179
- Lock with self-locking or motorised escape door function

Anti-panic devices according to DIN EN 1125

- Door fittings with push bar or touch bar combined with a variety of lever handle sets approved acc. to DIN EN 1125
- Anti-panic device DIN EN 1125 with different functions
- Up to RC 3 (double-leaf) or RC 4 (single-leaf)

Door operator HDO 200 / 300

Complete, value-for-money solutions for every scope of application



T30 Fire-retarding



T90 Fire-proof



RS Smoke-tight
DIN 18095



Escape door



Barrier-free construction



Personal safety
according to EN 16005 / DIN 18650

Advantages and functions:

- **25% less expensive than similar operators**
- **Integrated smoke sensor control with lintel-mounted smoke detector in R F version**
- Flatscan safety sensors
- Quiet operation, therefore suitable for various applications, e.g. in offices or hospitals
- All door parameters, such as opening and closing speed, end stop and hold-open phase are optimally adjustable
- Speed control ensures a uniform opening and closing speed
- Operating modes: "automatic", "permanently open", "night", "closing time"
- Standard push-and-go function, can be turned on and off on request
- Built-in programme switch for "off", "automatic" and "permanently open" in the HDO 200 and additional "night" and "closing time" options on the programme switch in the HDO 300
- Smart swing function for easy manual access (HDO 300)
- Operation via buttons, radar movement detectors, etc., optionally with BiSecur radio technology for operation with all Hörmann hand transmitters, radio control elements, radio internal push buttons or the BiSecur app



Door and operator from a single source

The door and operator are supplied as a perfectly matching complete system, including the necessary fixing material, from a single source. This simplifies and accelerates door fitting and commissioning.

	HDO 200	HDO 300
Width	880 mm	920 mm
Height	70 mm	70 mm
Depth	121 mm	130 mm
Weight	9 kg	11 kg
Door width	855 – 1400 mm	880 – 1500 mm
Door height	Up to 2500 mm	Up to 2500 mm
Door weight	Up to 200 kg ¹⁾	Up to 300 kg ¹⁾
Surface finish	Silver (EV1)	Silver (EV1)

¹⁾ Depending on door width and fitting position

The simple solution for barrier-free passages

Operator package Economy

- 1 Operator HDO 200 / 300 in silver (EV 1)
- 2 Slide rail pulling on opening side or linkage pushing on closing side
- 3 Flatscan in silver for safeguarding the door and the side edge (2 x for single-leaf doors, 4 x for double-leaf doors)
- 4 Release button HAT 02 (1 x)
- 5 Flat button in white (2 x)

The convenient solution for hygiene areas

Operator package Protect

- 1 Operator HDO 200 / 300 in silver (EV 1)
- 2 Slide rail pulling on opening side or linkage pushing on closing side
- 3 Flatscan in silver for safeguarding the door and the side edge (2 x for single-leaf doors, 4 x for double-leaf doors)
- 4 Release button HAT 02 (1 x)
- 6 Radio radar button FSR 1 BiSecur (2 x) and receiver HET / S24 BiSecur (1 x)

The individual solution for particularly high demands in construction projects

Operator HDO individual

- Operator HDO 200 / 300 in RAL to choose
- Wide range of operating accessories in many designs

Control elements



4



5



6



Release button HAT 02

For closing the door in the event of fire, flush-mounted version and surface-mounted version (image)

Button .NEW from June 2022

For opening the door in the event of fire, flush-mounted version (image) and surface-mounted version

Radio radar button FSR 1 BiSecur

For contactless door opening inc. radio receiver HET / S24 BiSecur

Overhead door closers

The right solution for any requirement

With compensator function, smoke sensor control or electromechanical hold-open device – Hörmann offers the right overhead door closer with the corresponding equipment for any door situation. The products impress not only in terms of quality and comfort, but also design, e.g. with the flush look of the slide rail and closing mechanism in many versions.

The overhead door closer H-TS 93 excels with a flush finish of the rail and closer body and can be mounted directly on the closing side without lintel spacer.



Overhead door closer HDC 35, optional version for direct fitting without lintel spacer



Overhead door closer H-TS 93, optional version for direct fitting without lintel spacer

Overhead door closer	HDC 35	H-TS 93	TS 4000	TS 5000	EC-Line	ISM	EC-Line ISM	TS 83	TS 73 EMF
Linkage door closer			●					●	●
Slide rail door closer	●	●		●	●	●	●		
Integrated door closer									
Direct fitting without lintel spacer	●	●		●					
Flush-closing slide rail with closer body	●	●		●					
Integrated restrained opening	●	●	●	●	●	●	●	●	●
Compensator function			○	○					
Shock absorption / opening limiter	○	○		○	○	○	○		
Mechanical hold-open device (not permitted for fire protection)	○	○	○	○	○	○	○	○	
High passage convenience (Barrier-free acc. to DIN 18040 / DIN SPEC 1104)	EN4 Up to 1100	EN5 Up to 1250		EN4 Up to 1100	EN5 Up to 1250	EN4 Up to 1100	EN5 Up to 1250		
Integrated door leaf selector for double-leaf doors						●	●		
Electrical hold-open device			○	○	○	○	○		●
Integrated smoke sensor control				○	○	○	○		

● = Standard ○ = Optional ●/○ = Opening side yes



Overhead door closer TS 4000



Overhead door closer TS 5000



Overhead door closer TS 83



Overhead door closer TS 98 XEA allows closing even in tricky environments, for example in air lock situations



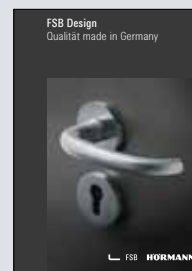
Integrated overhead door closer ITS 96

TS 93	GSR	TS 98 XEA	GSR	TS 99 FL	ITS 96	GSR	TS 61	SR	TS 62	SR
●	●	●	●	●			●	●	●	●
					●	●				
	●	●/○	●				●/○		●/○	
●	●	●	●				●	●	●	●
				●	○					
○	○	○	○	○	●	●	○	○	○	○
○	○	○	○		○	○	○	○	○	○
EN5 Up to 1250	EN5 Up to 1250	EN5 Up to 1250	EN5 Up to 1250	EN5 Up to 1250	EN5 Up to 1250	EN5 Up to 1250	EN4 Up to 1100	EN4 Up to 1100	EN5 Up to 1250	EN5 Up to 1250
	●		●			●		●		●
○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○			○	○	○	○

Lever handle sets

Tailored to your individual requirements

As standard, Hörmann steel and stainless steel doors come with a black plastic handle with round rose escutcheon and are prepared for a profile cylinder. Object lever handle sets made of aluminium or stainless steel are also optionally available.



For further information and versions, see the brochures "Door fittings" and "FSB Design".



Fire-rated lever handle set D-110 suitable acc. to EN 179
With sliding bearing or ball bearing



Fire-rated lever handle set D-190 / FSB 1070 (XXL lever handle) suitable acc. to DIN 18040
With sliding bearing



Fire-rated lever handle set D-210
With sliding bearing



Fire-rated lever handle set D-310 / FSB 1076
With sliding bearing or ball bearing



Fire-rated lever handle set D-330 / FSB 1016 suitable acc. to EN 179
With sliding bearing or ball bearing



Fire-rated lever handle set D-410 / FSB 1023 suitable acc. to EN 179
With sliding bearing or ball bearing



Fire-rated lever handle set D-490 / FSB 1053 (XXL lever handle) suitable acc. to DIN 18040
With ball bearing



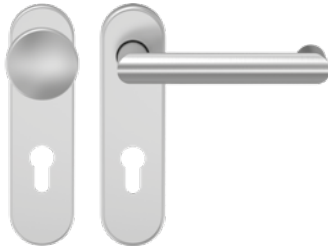
Fire-rated lever handle set D-510 suitable acc. to EN 179
With sliding bearing or ball bearing

Security fittings / anti-panic devices

For more security



Lever handle set ES1
D-310, aluminium F1



Lever / knob handle set ES1
D-330 with knob K-130, aluminium F1



Lever / knob handle set ES2
D-210 with knob K-130, aluminium F1



Lever handle for inward opening escape doors
Suitable for escape doors with inwards anti-panic function,
possible up to RC 2, stainless steel

Anti-panic devices



Hörmann push bar

- Largely offset lever arms for use with electronic locking cylinders and for short distances to the PC
- Very stable bar handle
- Surface finishes: stainless steel, coated in silver aluminium F1, coated black / red (based on EPN 900 IV Alu), coated black / silver aluminium, black / green (Economic)
- Tested in accordance with DIN EN 1125, EN 1634, EN 1191



Hörmann touch bar

- Can be used as a locking system in accordance with DIN EN 1125
- Surface finishes: stainless steel, aluminium F1 coated
- Tested in accordance with EN 1125, EN 1634
- **Standard lengths: 670, 870, 1120 mm**

Door stops

For complete door equipment

Floor door stop BS

Stainless steel



Door stop BS 55



Door stop BS 45



Door stop BS 44



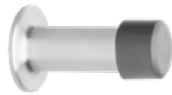
Door stop BS 65

Wall door stop WS

Stainless steel



Door stop WS 46



Door stop WS 76



Door stop WS 96



Door stop WS 82

Hold-open device control

in combination with magnets



1

Hold-open device control FSA Basic 1

The control combines power supply, warning signals, fire detector evaluation, a manual release button and a reset device in one compact housing. In addition, the status and alarm states are indicated via LED lights.

Furthermore, fire detectors, magnets and fire alarm systems can be easily connected.



2

Visual fire detector H-RM-4070 2

The visual smoke detector works according to the familiar scattered light principle and thus detects the smoke emissions of many different fires. The sensor compartment contains a visual sensor capable of measuring both reflected and normal scattered light. Algorithms make alarm activation of the detector very reliable. The fire detector is also available in black.



3

Thermal detector H-TM-4070 3

The heat detector has an open housing that allows the ambient air to circulate freely around the temperature sensor. The air temperature is measured every 2 seconds. A microprocessor stores the temperature measurement data and compares it to the preset limits to determine if a preset maximum value – the alarm threshold – has been reached.

Standard frame types

Corner frame with diagonal fixing and universal corner frame

Corner frame with diagonal fixing A type 1 ¹

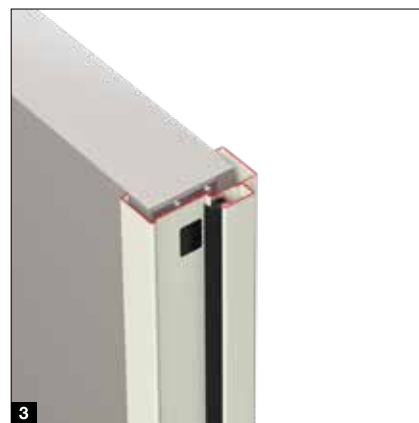
With diagonal fixing, the frame is screwed to the wall using the prefabricated holes. Fitting is quick and easy with only 3 – 4 fixing points per side (depending on the door size). This frame type is supplied as standard for order-based production.

Universal corner frame A type 2 ²

The frame is fitted with a diagonal fixing as standard or using dowel brackets available in an optional fitting package. The dowel brackets are simply attached to the available threaded bolts in this case. The universal corner frame is the ideal frame for keeping in stock as only a few components have to be stocked in addition to the door set for flexible fitting in all wall types. The universal corner frame type 2 can also be selected in the case of order-based production.

Can be expanded into a double-shell profile frame ³

The optional counter frame Vario B53 C type 1 (up to wall width 270 mm) is subsequently pushed under the universal corner frame A type 1 or A type 2. It is fixed with the standard fixing brackets (spacers) from the corner frame and with additional clamping brackets if necessary. Further fastenings and a backfill of the counter frame are generally not required. Another advantage: Due to the variable wall width (– 5 mm to + 15 mm), wall tolerances of up to 20 mm can be easily compensated.



Frame	H3 OD	H3 VM	H3 G	H6 OD	H16 OD	H16 G	HS 75	H16 S	D65 OD	D65	D65 VM
Corner frame											
¹ A type 1 Diagonal fixing	●			●	●				●		
² A type 2 Diagonal fixing	●			●	●				●		
Corner frame with counter frame											
³ C type 1 Diagonal fixing	●			●	●				●		

● = Standard

Universal corner frame

With almost unlimited fitting options

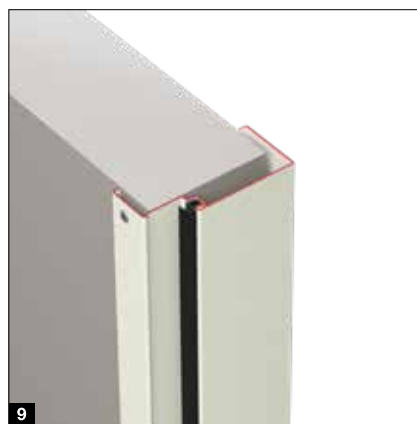
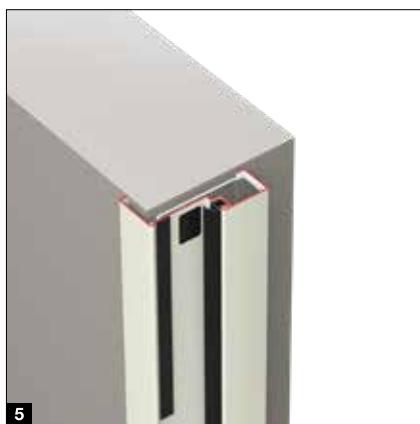
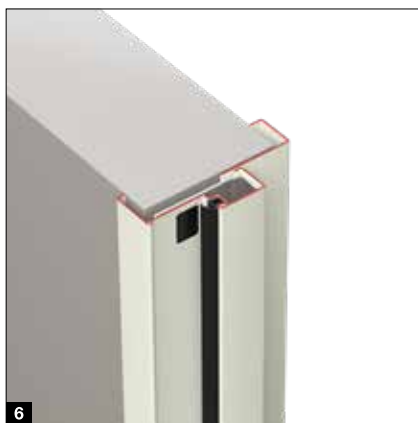


Frame types

Individual fitting options

Frame	H3 OD	H3 VM	H3 G	H6 OD	H16 OD	H16 G	HS 75	H16 S	D65 OD	D65	D65 VM
Corner frame											
4 A type 3 Plug-and-screw fitting		●	●			●*	●	●		●	●
DryFix frame											
5 B type 1 Diagonal fixing	●								●		
6 B type 2 Diagonal fixing	●								●		
Corner frame with counter frame											
7 C type 2 Diagonal fixing	●			●	●				●		
8 C type 3 Fitting by welding	●	●	●	●	●	●*	●	●	●	●	●
9 C type 4 Screw fixing	●	●	●	●	●	●*	●	●	●	●	●

● = Possible * Only for single-leaf



DryFix frame

For easy, fast and clean fitting

DryFix frame, B type 1

For easy, fast and clean fitting

Diagonal fixing with 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 is minimised.

- 1 Place the frame in the opening and align it
- 2 Screw in the frame
- 3 Seal the connection gaps and cover up the fastening holes

DryFix frame with counter frame Vario B36, B type 2 ⁴

The DryFix frame is easily transformed into a VarioFix Fire frame by using the Vario B36 counter frame. It is connected using the DryFix frame fixing brackets. The VarioFix Fire frame is already backfilled with mineral wool at the factory. Another advantage: With the counter frame, wall unevenness of up to 20 mm can be compensated.



Watch the video on YouTube or at www.hoermann.com/videos

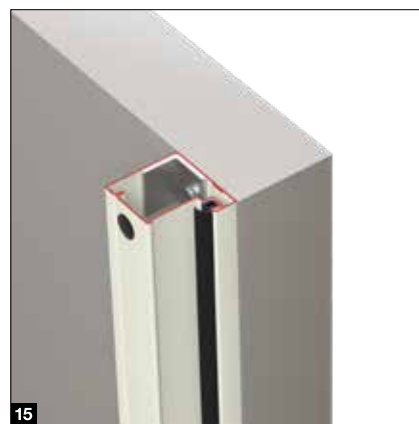


Frame types

Individual fitting options

Frame	H3 OD	H3 VM	H3 G	H6 OD	H16 OD	H16 G	HS 75	H16 S	D65 OD	D65	D65 VM
Profile frame											
10											
D type 1 Plug-and-screw fitting through frame reveal	●	●		●	●				●	●	●
11											
D type 2 Plug-and-screw fitting through frame reveal	●	●		●	●				●	●	●
12											
D type 3 Plug-and-screw fitting	●	●		●	●				●	●	●
Block frame											
13											
E type 1 Plug-and-screw fitting through frame reveal	●	●	●	●	●	●	●	●	●	●	●
14											
E type 2 Plug-and-screw fitting through frame reveal	●	●	●	●	●	●	●	●	●	●	●
15											
E type 3 Fitting in front of the wall	●	●	●	●	●	●	●	●	●	●	●

● = Standard



Stainless steel lock plate with catch alignment ¹

The lock latch can be optimally adjusted with the optional catch alignment. The corresponding edge guard effectively protects the priming or coating. You can also opt for different versions for varying requirements, e.g. for use of electric openers and latch contacts at a later date.

Edge guard ²

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.

Lining groove ³

Steel frames for construction project doors are equipped with a special lining groove as standard. This means that the seals do not need to be bonded.

Flush-fitting cover caps ⁴

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. Cover caps are available to match the frame colour in RAL 9002 and in 7 preferred colours.

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 level of resistance. Individual frame solutions in genuine Hörmann quality are also available for your wall type.

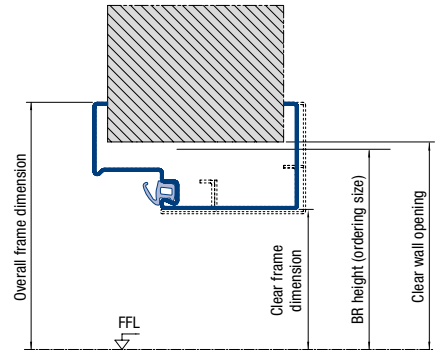
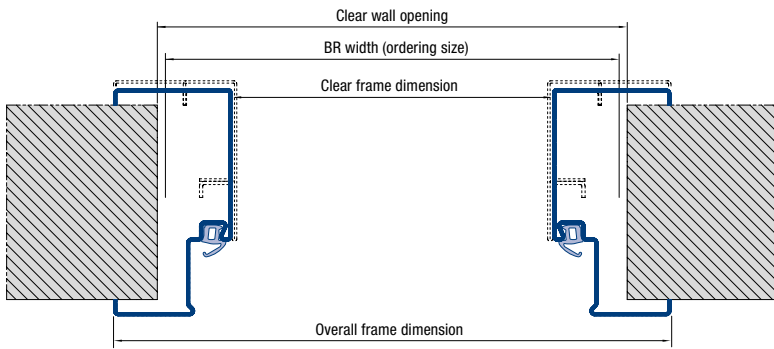
Advantages:

- Sheet thickness 2 mm
- Moulded sealing groove
- As standard galvanized and with powder-coated primer in Grey white (similar to RAL 9002)
- Optionally in RAL to choose



Door sizing

Frame dimensions, clear passage width, gap



3-sided all-round frame (doors)
BR width BR height

4-sided all-round frame (door)
BR width BR height

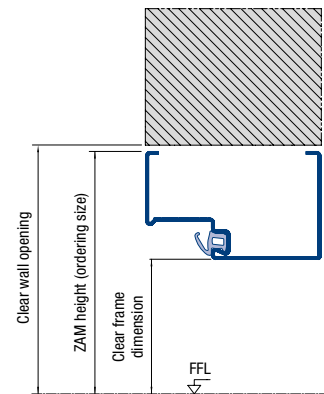
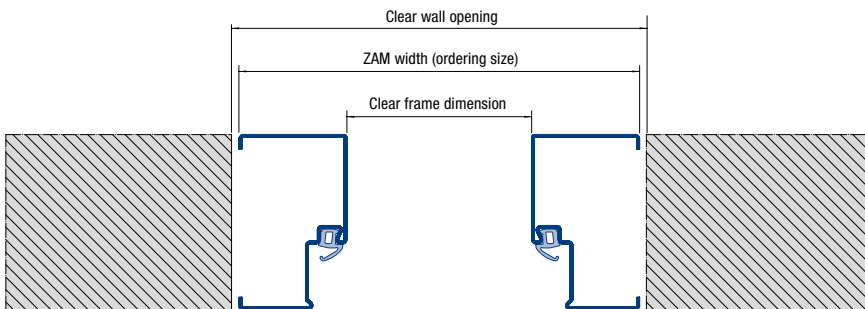
Doors with universal corner frame / DryFix frame / corner with counter frame / 1-part profile frame

Clear frame dimension	- 82	- 42	- 82	- 70
Overall frame dimension	+ 64	+ 31	+ 64	+ 76
Clear wall opening	+ 0 to 20	+ 0 to 15	+ 0 to 20	+ 0 to 15

Doors with double-shell profile frame

Clear frame dimension	- 90	- 46	- 88	- 76
Overall frame dimension	+ 64	+ 31	+ 64	+ 76
Clear wall opening	+ 0 to 20	+ 0 to 15	+ 0 to 20	+ 0 to 15

Doors and hatches with profile frames for partition walls: nominal size = clear wall opening



3-sided all-round frame (doors)
ZAM width ZAM height

4-sided all-round frame (door)
ZAM width ZAM height

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

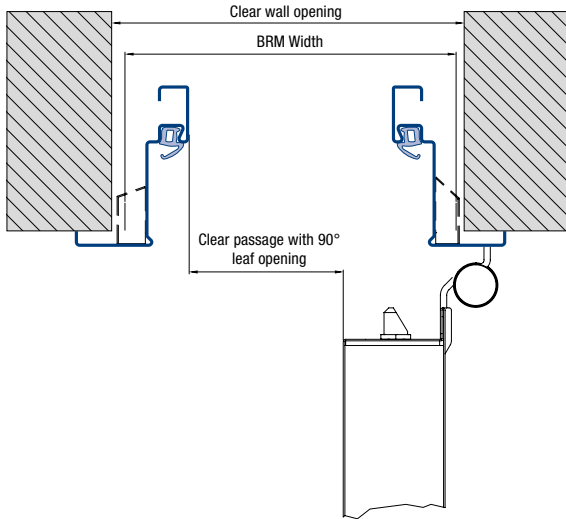
Clear frame dimension	- 146	- 73	- 146	- 146
Overall frame dimension	+ 10 to 20	+ 20	+ 10 to 20	+ 20

Dimensions in mm

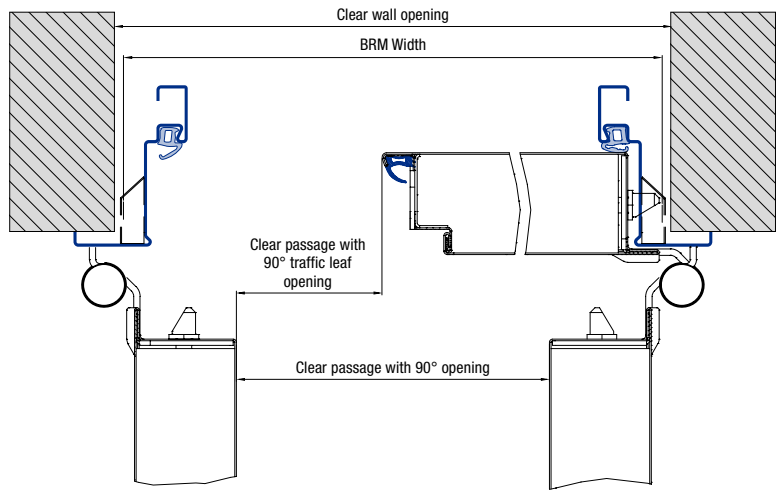
Clear passage widths

At an opening angle of 90°, without door fittings

Single-leaf door



Double-leaf door



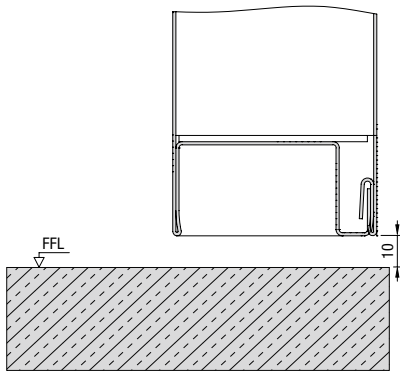
Single-leaf door

Double-leaf door

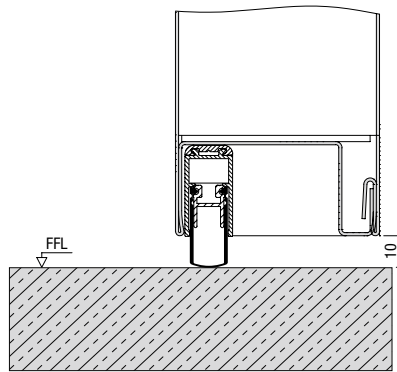
Double-leaf door,
traffic leaf

Door leaf thickness			
65 mm, thick rebate	BRB - 103	BRB - 124	BRB - 109
65 mm, thin rebate	BRB - 113	BRB - 144	BRB - 109
75 mm, thick rebate	BRB - 105		

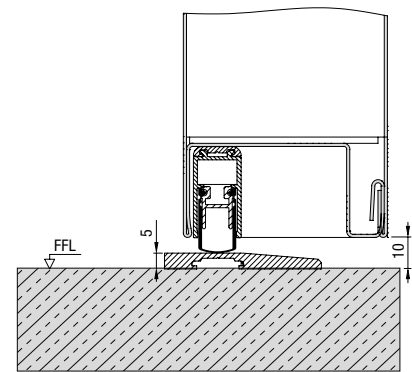
Gap



1 Without seal



2 With retractable seal



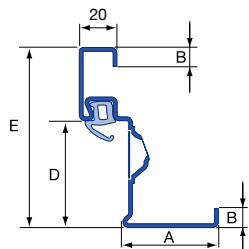
3 With seal and threshold

	Fire protection	Acoustic insulation	Smoke protection	Security
Standard	10 mm	10 mm	10 mm	10 mm
Tolerance range				
1 Without seal	+/- 5 mm	+2/- 5 mm	+2/- 5 mm	- 5 mm
2 With retractable bottom seal	+/- 5 mm	+2/- 5 mm	+2/- 5 mm	- 5 mm
3 With seal and threshold	+ 5 mm	+ 2 mm	+ 2 mm	

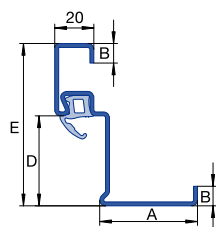
Dimensions in mm

Frame styles

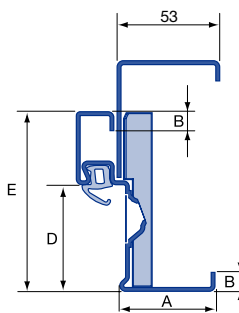
Without floor recess as standard



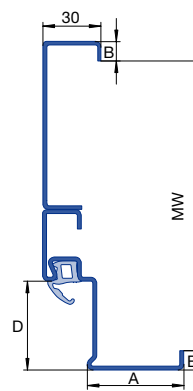
Corner frame
Diagonal fixing



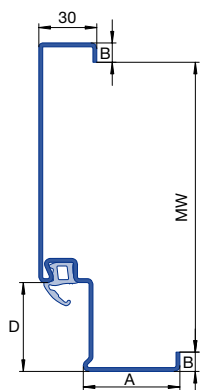
Corner frame



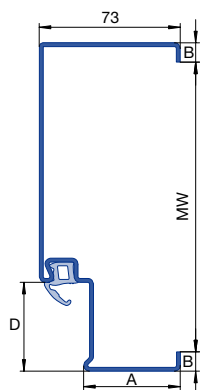
Corner frame with counter frame
Vario B53



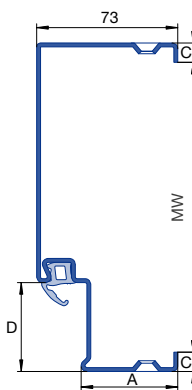
Corner frame with counter frame



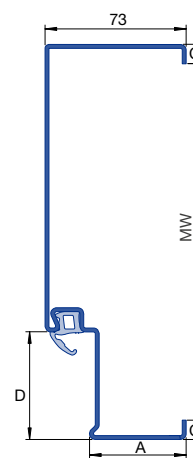
Screw-on profile frame



Profile frame B73



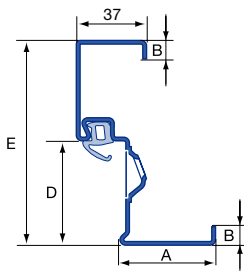
Profile frame B73 for
partition walls



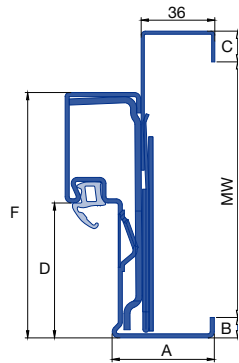
Block frame type 1

Door leaf thickness		65 mm		78 mm
Rebate type		Thin rebate	Thick rebate	Thin rebate
A	Frame face	50	50	50
B	Surface edge	10	10	10
C	Surface edge	15	15	15
D	Rebate depth	66	56	66
E	Overall depth	103	93	103

Dimensions in mm

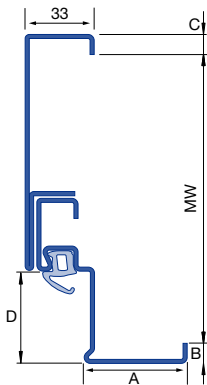


DryFix frame

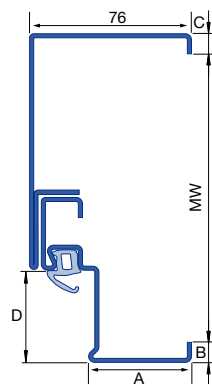


DryFix frame with counter frame
Vario B36 to RC 2

Door leaf thickness		65 mm	
Rebate type		Thin rebate	Thick rebate
A	Frame face	50	50
B	Surface edge	10	10
D	Rebate depth	66	56
E	Overall depth	120	110



Profile frame, double-shell



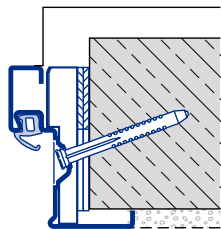
Profile frame, double-shell

Door leaf thickness		65 mm	
Rebate type		Thin rebate	Thick rebate
A	Frame face	50	50
B	Surface edge	10	10
C	Surface edge	15	15
D	Rebate depth	66	56

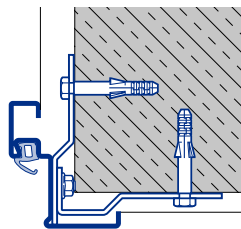
Fitting methods

Depending on wall fitting method

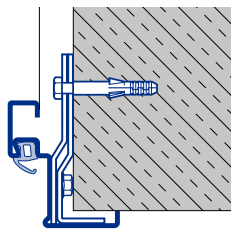
Fitting to plastered brickwork



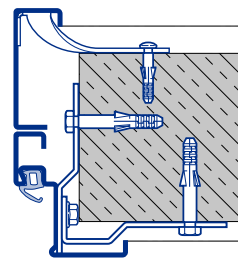
Corner frame
Diagonal fixing
A type 1



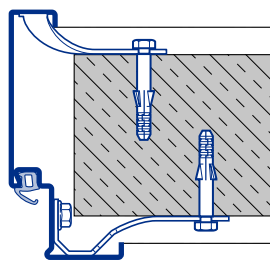
Corner frame
Fitted around a corner
A type 2 / A type 3



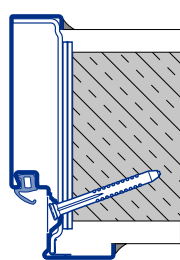
Corner frame
Plug-and-screw fitting in the reveal
A type 2 / A type 3



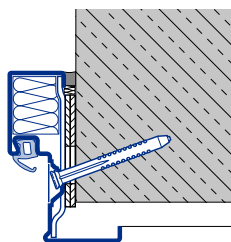
Corner frame with counter frame
Plug-and-screw fitting
C type 3



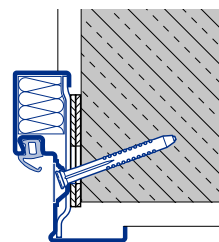
Profile frame
Plug-and-screw fitting
D type 1



Profile frame
Diagonal fixing up to wall
width 175
D type 1

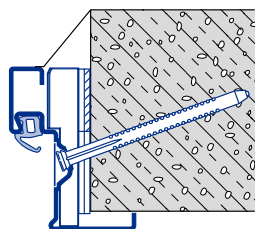


DryFix frame
Diagonal fixing
B type 1

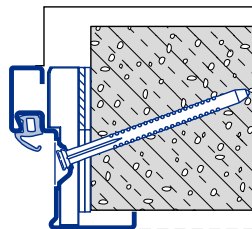


DryFix frame
Diagonal fixing
B type 1

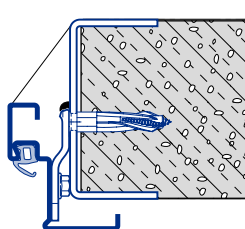
Fitting to gas concrete



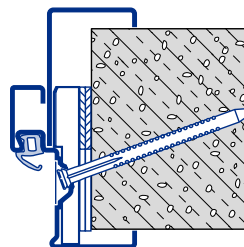
Corner frame
Diagonal fixing
A type 1



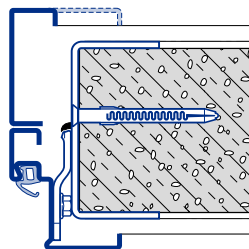
Corner frame
Diagonal fixing
A type 1



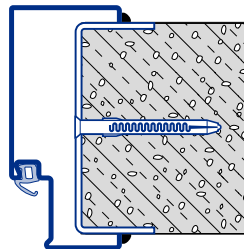
Corner frame
Fitting by welding
A type 2 / A type 3



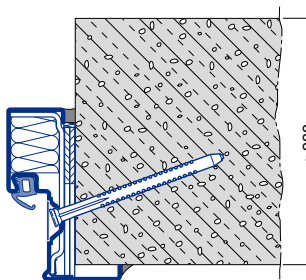
Corner frame with counter frame
Vario B53
Diagonal fixing
C type 1



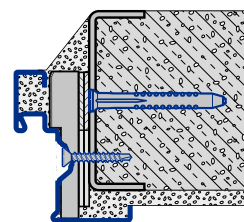
Corner and counter frame
Fitting by welding
C type 3



Profile frame B73
Fitting by welding
D type 2

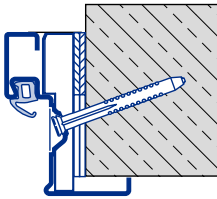


DryFix frame
Diagonal fixing
B type 1

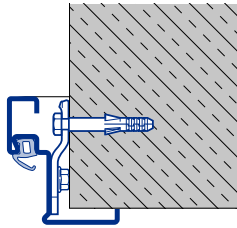


Corner frame
Plug-and-screw fitting
A type 1

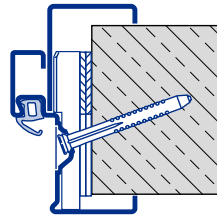
Fitting to unplastered brickwork or unplastered concrete



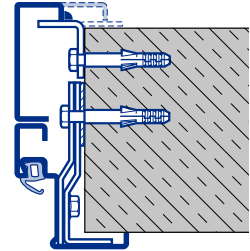
Corner frame
Diagonal fixing
A type 1



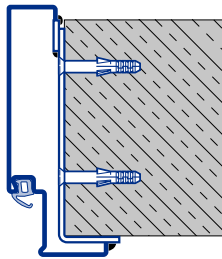
Corner frame
Concealed plug-and-screw fitting
A type 2



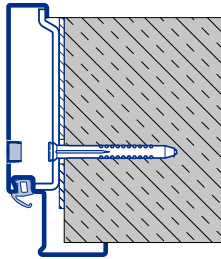
Corner frame with counter frame
Vario B53
Diagonal fixing
C type 1



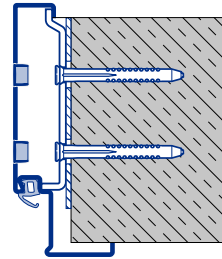
Corner and counter frame
Plug-and-screw fitting
C type 3



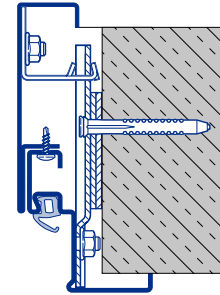
Profile frame
Plug-and-screw fitting / fitting
by welding
D type 1



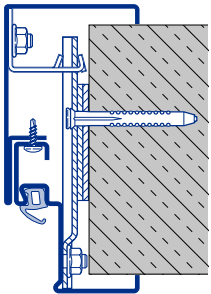
Profile frame
Plug-and-screw fitting through
frame reveal up to wall width
204 mm
D type 1



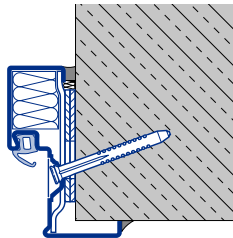
Profile frame
Plug-and-screw fitting through
frame reveal from wall width
205 mm
D type 1



Profile frame, double-shell
Frame face 33 mm
D type 3



Profile frame, double-shell
Frame face 76 mm
D type 3



DryFix frame
Diagonal fixing
B type 1

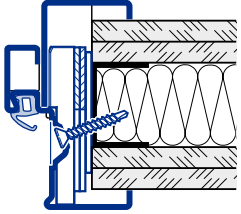
Note:

DryFix frames: with mineral wool
frame backfill from the factory,
including plugs and ready-to-fit

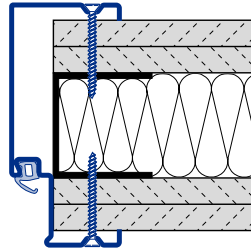
Fitting methods

Depending on wall fitting method

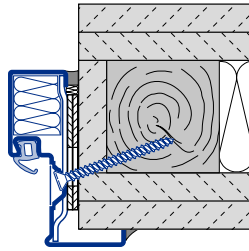
Fitting in partition walls



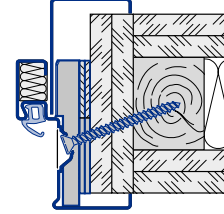
Universal corner frame with counter frame Vario B53
Diagonal fixing
C type 1



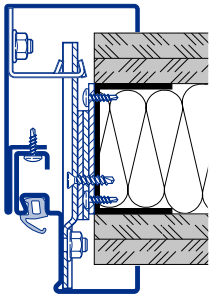
Profile frame B73 for partition walls
Screw fixing
C type 4



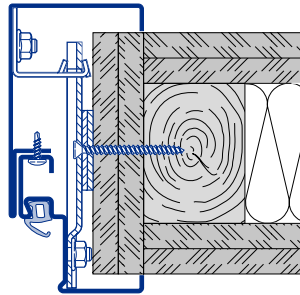
DryFix frame
Diagonal fixing
B type 1



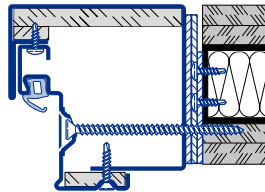
Corner frame with counter frame Vario B53 diagonal fixing
C type 1



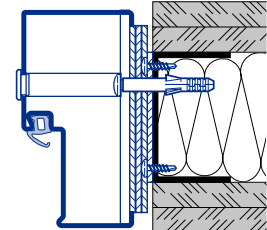
Profile frame, double-shell
(Frame face 76 mm)
Partition walls F90 A
D type 3



Profile frame, double-shell
(Frame face 76 mm)
Partition walls F90 B
D type 3

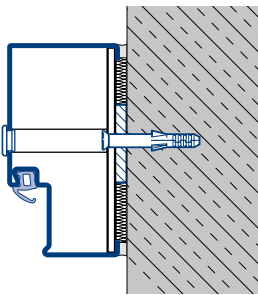


Block frame, double-shell
Plug-and-screw fitting through
frame reveal
E type 2

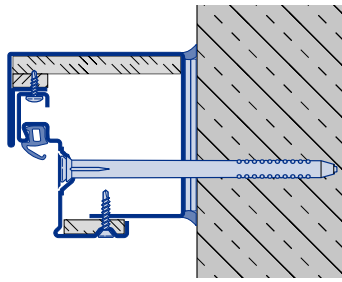


Block frame
Plug-and-screw fitting through
frame reveal
E type 1

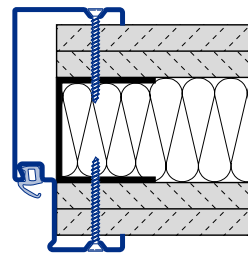
Fitting in the opening



Block frame
Plug-and-screw fitting through
frame reveal
E type 1



Block frame, double-shell
Plug-and-screw fitting through
frame reveal
E type 2



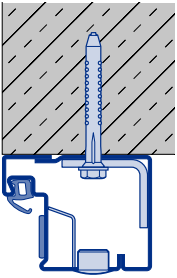
Profile frame B73 for partition walls
Screw fixing
C type 4

- Infill with mineral wool or fire-proof gypsum board strips only possible in security doors up to RC 2.
- Security doors with block frames in resistance classes RC 3 and RC 4 must be backfilled with mortar on site.

Note:

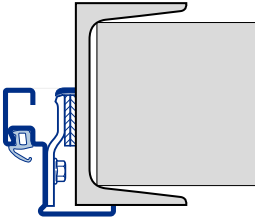
DryFix frames: backfilled with mineral wool at the factory and ready-to-fit

Fitting in front of the wall

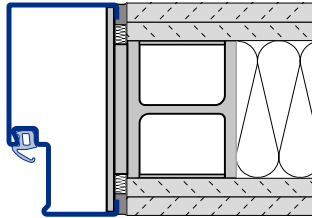


Block frame for fitting in front of the wall
E type 3

Fitting in cladded steel supports



Corner frame with fitting
by welding
A type 3



Block frame with fitting by welding
E type 1

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CONSTRUCTION PROJECT DOORS. PERIMETER PROTECTION SYSTEMS**



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