

Steel Fire-Rated Doors to British Standard

Single and double-leaf doors in a matching appearance - with Environmental Product Declaration EPD



Hörmann Fire Protection

Because it's good to be on the safe side



Allianz Arena Munich, Germany



In-house product development

Reliable fire protection calls for adequate new developments and improvements to each and every detail. This is where our qualified development teams demonstrate their expertise time and again. Hörmann has continually extended its fire protection programme. Today, as a result, we can offer a complete and fully developed range.



State-of-the-art production

Hörmann relies on the latest production technology at highly specialised factories. Computer-controlled operations ensure dimensionally accurate elements with perfectly installed fittings and functional parts. This is a prerequisite for customised solutions in the non-domestic building sector.



When you purchase a Hörmann fire-rated door you are assured of quality, protection and safety for decades. Take advantage of our comprehensive range to meet the special requirements of your application in the non-domestic building sector.





LPCB Certificate valid for: HBS 60 C-1, HBS 60 C-2, HBS 90 C-1, HBS 90 C-2, HBS 90 D-1, HBS 90 F-2, HBS 120 C-1, HBS 120 C-2



Pre-tested in Hörmann's own fire-testing center

In our own fire-testing center, highly sensitive instruments precisely measure the thermal load. This allows us to optimally prepare our innovations for official inspections by accredited testing centres for approvals.



Competent advice and support

Experienced specialists from our customer-oriented sales organisation support you from the planning stage, through technical clarification up to the final building inspection. Our complete documentation is continually updated and available at all time on our website www.hoermann.com

Matching looks down to the last detail

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



1

3 Lock



5 Closing devices

Fire-rated doors close automatically as standard. With single-leaf doors a spring hinge closes the door. For British standard doors overhead door closers are needed. Depending on the size, features, use or fitting style, the factory can also supply you with single-leaf doors with the exclusive slide rail door closer HDC 35 and double-leaf doors with linkage door closers and door leaf selector.

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



Linkage door closer for double-leaf doors.

6 Hinges

Hörmann steel fire-rated doors are supplied with heavyduty ball-bearing hinge sets. Depending on the size of the door, each door leaf is fitted with 2 or 3 hinges. Stainless steel hinge sets can also be supplied up to resistance class RC 3.

Optional 3-D hinges

3-D hinges are especially suited for the fine-tuning and subsequent adjustment of the door. You can balance out minor fitting tolerances. Available galvanized, powder-coated or in stainless steel.

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 to DIN EN V 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.



Standard hinge

3-D hinge galvanized and primed



Security bolt

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 with short escutcheon or roses with various handle shapes is available. Surfaces are available in differently coloured plastic versions, aluminium F1 and stainless steel (break-in resistant doors can only be equipped with fittings to DIN 18257 resistance classes).

Ironmongery supplied must be approved to the respective guidelines of the relevant assessment report. 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 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 escutcheon or rose with matching handles
- Anti-panic lock DIN EN 179
- Anti-panic lock self-locking

Panic locks according to DIN EN 1125

- Fittings with a bar or a handle 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 options are designed for a perfect fit and attractive look for safe and long lasting 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 silver (standard), in RAL to choose or in stainless steel

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.

- 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 leaf operator

Electrical equipment

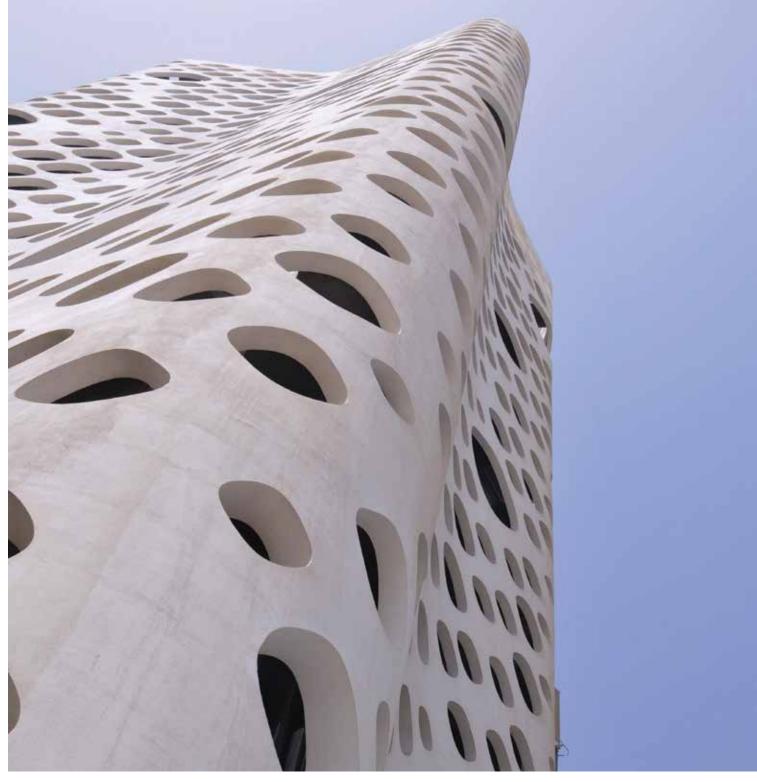


In the facility, door systems are often equipped with alarm, escape-route security or access control systems. Various components are available according to your needs:

· Latch contact

- Reed contact
- Electric door strike
- Escape door opener
- Alarm wire mesh
- Motor lock
- Door lock
- Concealed electro duct

O-14 Tower, Business Bay, Dubai Architects: Reiser and Umemoto Architects







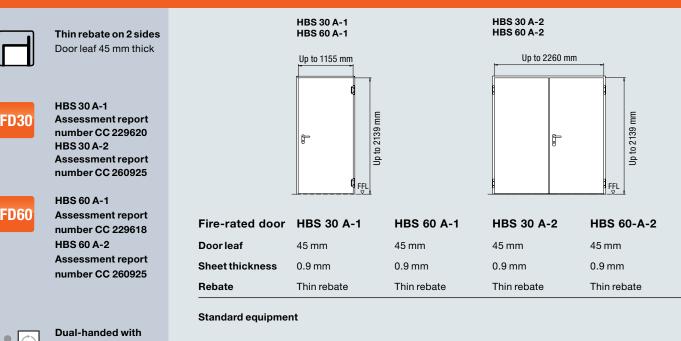


Hörmann products O-14 Tower, Dubai Strong Fire Protection for High Rise Buildings HBS90 HBS120 British Standard Doors Two hinges with aluminium ironmongery.

Fire-Rated Doors HBS 30 A-1 / -2, HBS 60 A-1 / -2



Single and double-leaf



Dual-handed with corner frame You determine the handing on-site -LH or RH hinged. You simply turn the doors around. No need to remove and relocate bolts - a quick fitting method!

Hörmann was the first manufacturer who 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 (iff – Institute of window technology) in Rosenheim.



Door leaf	Thermal insulation: mineral wool board.	
	2 steel security bolts on the hinge side, intumescent seal	
Frame	Special corner frame with all-round sealing (on 4 sides)	
	Counter frame for wall width 100 to 330 mm	
	Block frame in the reveal with 6 fixing points per side	
	Aluminium threshold profile with seal	
Surface finish	Door leaf and corner frame galvanized and primed in RAL 9002 Grey white	
	Block frame in the reveal galvanized and primed in RAL 7035 Light grey	
Hinges	Spring hinge, hinge acc. to DIN 18272	
Fittings	Mortice lock with lever/knob - prepared for profile cylinder FS round lever handle	
	set with lever securely fitted, panic bar handle	
Product benefits	Acoustic-rated, guide value P approx. 39 dB (corner frame)	
	Thermally insulated U = $1.7 \text{ W/m}^2\text{K}$ (corner frame)	
	Dual-handed (corner frame)	
	All-round sealing (corner frame)	
	2 steel bolts to prevent door from being levered open	
	Available for finished floor	
Accessories	Door leaf in chosen RAL colour	
	Frame in chosen RAL colour	
	Door set with counter frame	
	Aluminium threshold with seal	
	Black BKS bar handle with knob	
	Black BKS bar handle with lever	

	HBS 30 A-1 / HBS 60 A-1		HBS 30 A-2	/ HBS 60 A-2
Structural opening (ordering size)	Width Height		Width	Height
Corner frame	635 - 1155	1755 - 2139	1300 - 2260	1755 - 2139
Clear passage	557 - 1077	1716 - 2100	1222 - 2182	1716 - 2100
Reveal frame	707 - 1332	1789 - 2173	1332 - 2260	1789 - 2170
Clear passage	567 - 1192	1719 - 2103	1192 - 2120	1719 - 2100

Fire-Rated Doors HBS 30 A-1 / -2, HBS 60 A-1 / -2

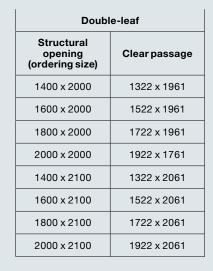
Standard sizes

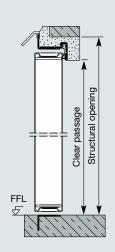
Standard sizes with corner frame

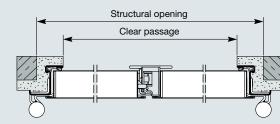
Single-leaf		
Structural opening (ordering size)	Clear passage	
800 x 2000	722 x 1961	
800 x 2100	722 x 2061	
900 x 2000	822 x 1961	
900 x 2100	822 x 2061	
1000 x 2000	922 x 1961	
1000 x 2100	922 x 2061	

Structural opening

Clear passage



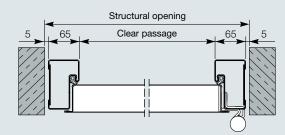




Single-leaf with corner frame

Standard sizes with reveal frame

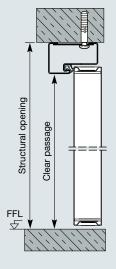
Single-leaf		
Structural opening (ordering size)	Clear passage	
800 x 2000	660 x 1930	
800 x 2100	660 x 2030	
900 x 2000	760 x 1930	
900 x 2100	760 x 2030	
1000 x 2000	860 x 1930	
1000 x 2100	860 x 2030	

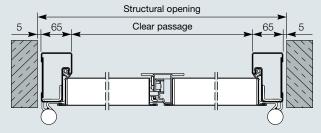


Single-leaf with reveal frame

Double-leaf Structural opening (ordering size) **Clear passage** 1260 x 1930 1400 x 2000 1600 x 2000 1460 x 1930 1800 x 2000 1660 x 1930 2000 x 2000 1860 x 1930 1400 x 2100 1260 x 2030 1600 x 2100 1460 x 2030 1800 x 2100 1660 x 2030 1860 x 2030 2000 x 2100

Double-leaf with corner frame





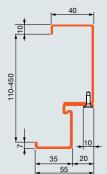
Double-leaf with reveal frame

Fire-Rated Doors HBS 30 A-1 / -2, HBS 60 A-1 / -2

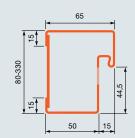
Frame types and fitting situations

Frame type

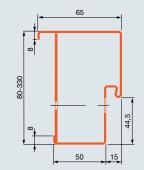
Corner frame



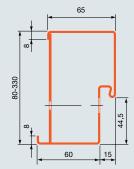
Corner frame with counter frame



Block frame type 1

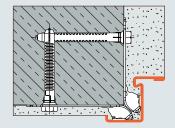


Block frame type 2

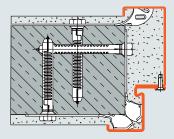


Block frame type 3

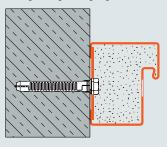
Fitting situation



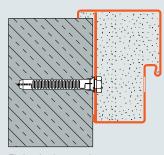
Fitting with grouting lugs / anchor brackets



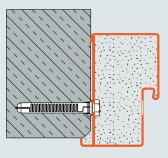
Fitting with grouting lugs / anchor brackets



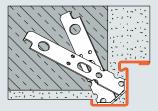
Fitting in the opening



Fitting in the opening



Fitting in the opening



BMW Welt, Munich, Germany Architects: Coop Himmelb(I)au, Vienna, Austria









Hörmann products BMW Welt: High-acoustic-rating doors BMW high rise: T30 steel fire-rated doors T30 security doors WK 4 Steel doors Fire sliding doors Industrial sectional doors

Fire-Rated Door HBS 60 C-1 / -2 Single and double-leaf





FD60

Thin rebate Door leaf 55 mm thick

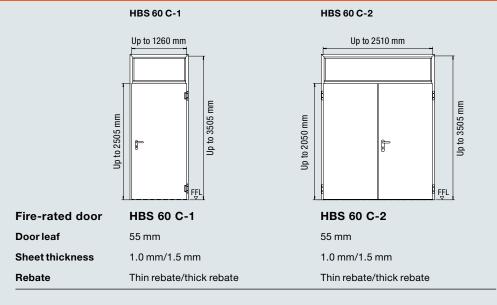
Thick rebate Door leaf 55 mm thick





Hörmann was the first manufacturer who 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





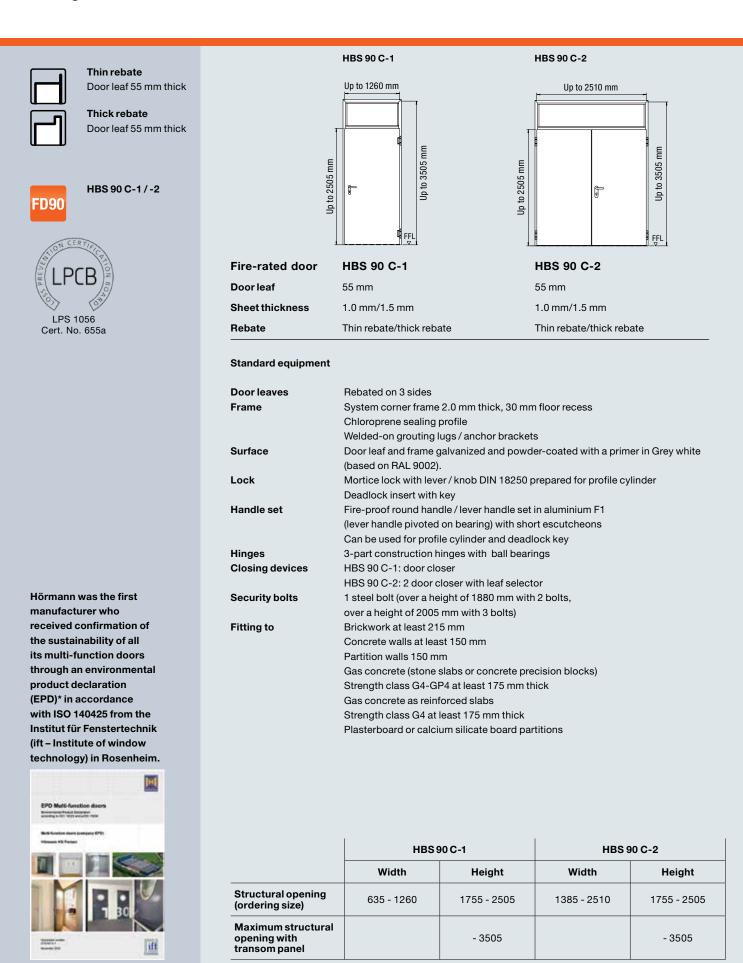
Standard equipment

Door leaves	Rebated on 3 sides	
Frame	System corner frame 2.0 mm thick, 30 mm floor recess	
	Chloroprene sealing profile	
	Welded-on grouting lugs / anchor brackets	
Surface	Door leaf and frame galvanized and powder-coated with a primer in Grey white	
	(based on RAL 9002).	
Lock	Mortice lock with lever / knob DIN 18250 prepared for profile cylinder	
	Deadlock insert with key	
Handle set	Fire-proof round handle / lever handle set in aluminium F1	
	(lever handle pivoted on bearing) with short escutcheons	
	Can be used for profile cylinder and deadlock key	
Hinges	3-part construction hinges with ball bearings	
Closing devices	HBS 60 C-1: door closer	
	HBS 60 C-2: 2 door closer with leaf selector	
Security bolts	1 steel bolt (over a height of 1880 mm with 2 bolts,	
	over a height of 2005 mm with 3 bolts)	
Fitting to	Brickwork at least 215 mm thick	
	Concrete or concrete block walls at least 150 mm thick	
	Autoclaved aerated concrete block walls, minimum 600 kg/m ³ density,	
	at least 215 mm thick	
	Plasterboard or calcium silicate board partitions	

	HBS 60 C-1		HBS 60 C-2	
	Width	Height	Width	Height
Structural opening (ordering size)	635 - 1260	1755 - 2505	1385 - 2510	1755 - 2505
Maximum structural opening with transom panel		- 3505		- 3505

Fire-Rated Door HBS 90 C-1 / -2 Single and double-leaf





Fire-Rated Doors HBS 90 D-1, HBS 90 F-2



Single and double-leaf oversized doors



Fire-Rated door HBS 120 C-1 / -2 Single and double-leaf



HBS 120 C-1 HBS 120 C-2 Thin rebate Door leaf 55 mm thick Up to 1260 mm Up to 2010 mm Thick rebate Door leaf 55 mm thick Up to 2505 mm шШ Up to 2505 HBS 120 C-1 / -2 F F FD120 FFL FFL **Fire-rated door** HBS 120 C-1 HBS 120 C-2 Door leaf 55 mm 55 mm **Sheet thickness** 1.0 mm/1.5 mm 1.0 mm/1.5 mm LPS 1056 Thin rebate/thick rebate Thin rebate/thick rebate Cert. No. 655a Rebate Standard equipment **Door leaves** Rebated on 3 sides Frame System corner frame 2.0 mm thick, 30 mm floor recess Chloroprene sealing profile Welded-on grouting lugs / anchor brackets Surface Door leaf and frame galvanized and powder-coated with a primer in Grey white (based on RAL 9002). Mortice lock with lever / knob DIN 18250 prepared for profile cylinder Lock Deadlock insert with key Handle set Fire-proof round handle / lever handle set in aluminium F1 (lever handle pivoted on bearing) with short escutcheons Can be used for profile cylinder and deadlock key Hinges 3-part construction hinges with ball bearings **Closing devices** HBS 120 C-1: door closer HBS 120 C-2: 2 door closer with leaf selector Security bolts 1 steel bolt (over a height of 1880 mm with 2 bolts, Hörmann was the first over a height of 2005 mm with 3 bolts) manufacturer who **Fitting to** Brickwork at least 215 mm received confirmation of Concrete walls at least 150 mm the sustainability of all Partition walls 150 mm its multi-function doors Gas concrete (stone slabs or concrete precision blocks) through an environmental Strength class G4-GP4 at least 175 mm thick product declaration Gas concrete as reinforced slabs (EPD)* in accordance Strength class G4 at least 175 mm thick with ISO 140425 from the Plasterboard or calcium silicate board partitions Institut für Fenstertechnik (ift - Institute of window technology) in Rosenheim.

	HBS 120 C-1		HBS 120 C-2	
	Width Height		Width	Height
Structural opening (ordering size)	635 - 1260	1755 - 2505	1385 - 2010	1755 - 2505

iff

Fire-Rated Doors HBS 60 C-1 / -2, HBS 90 C-1 / -2, HBS 90 D-1, HBS 90 F-2, HBS 120 C-1 / -2

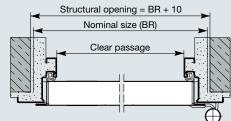
Standard sizes

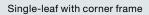
Standard sizes with corner frame

HBS 60 C-1 Single-leaf	HBS 60 C-2 Double-leaf
Structural opening (ordering size)	Structural opening (ordering size)
800 x 2000	1600 x 2000
900 x 2000	1600 x 2100
1000 x 2000	1600 x 2200
1000 x 2100	1600 x 2500
1000 x 2200	1800 x 2000
1100 x 2100	1800 x 2100
1100 x 2200	1800 x 2200
1100 x 2500	1800 x 2500
1200 x 2100	2000 x 2000
1200 x 2200	2000 x 2100
1250 x 2500	2000 x 2200
	2000 x 2500
	2200 x 2100
	2200 x 2200
	2400 x 2200
	2500 x 2500

HBS 90 C-1 HBS 120 C-1 Single-leaf	HBS 90 C-2 HBS 120 C-2 Double-leaf
Structural opening (ordering size)	Structural opening (ordering size)
800 x 2000	1600 x 2000
900 x 2000	1600 x 2100
1000 x 2000	1600 x 2200
1000 x 2100	1600 x 2500
1000 x 2200	1800 x 2000
1100 x 2100	1800 x 2100
1100 x 2200	1800 x 2200
1100 x 2500	1800 x 2500
1200 x 2100	2000 x 2000
1200 x 2200	2000 x 2100
1250 x 2500	2000 x 2200
	2000 x 2500
	2200 x 2100
	2200 x 2200
	2400 x 2200
	2500 x 2500

HBS 90 D-1 and HBS 90 F-2 are not subdivided into standard sizes. There are only special sizes according to the order.



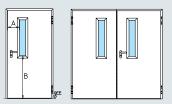


When ordering, please specify LH or RH hinged.

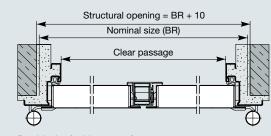


LH hinged

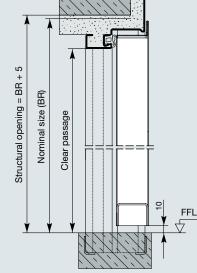


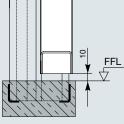


Glazing view 1 Clear view 140 x 815

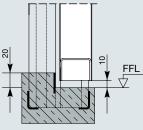


Double-leaf with corner frame





Door bottom edge for flat floor as standard

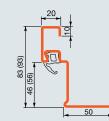


Door bottom edge with stepped threshold, on request or on site

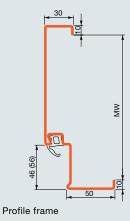
Fire-Rated Doors HBS 60 C-1 / -2, HBS 90 C-1 / -2, HBS 90 D-1, HBS 90 F-2, HBS 120 C-1 / -2

Frame types and fitting situations according to the corresponding assessment reports

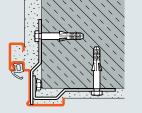
Frame type



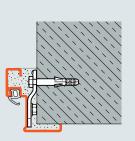
Corner frame



Fitting situation



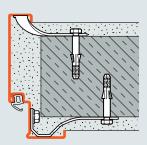
Fitting to brickwork Anchor bracket for brickwork



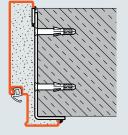
Fitting to unplastered brickwork or concrete with anchor brackets



Fitting to gas concrete



Fitting to brickwork Anchor bracket for brickwork



Fitting to unplastered brickwork or concrete



Fitting to unplastered brickwork or concrete

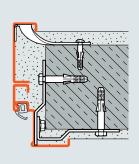


Corner frame with counter frame

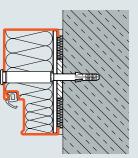


B 73 frame

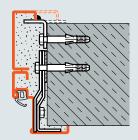
18



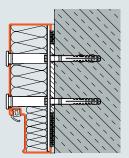
Fitting to brickwork Anchor bracket for brickwork



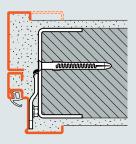
Fitting in the opening Anchor bracket up to MW 205 mm



Fitting to unplastered brickwork or concrete



Fitting in the opening Anchor bracket from MW 205 mm



Fitting to gas concrete

Everything from a Single Source

For your construction project



Sectional doors



Rolling shutters and rolling grilles



Fire sliding doors



Multi-function doors and reinforced internal doors



4

Steel and aluminium folding doors



Fire and smokeprotection box frame parts



High-speed doors

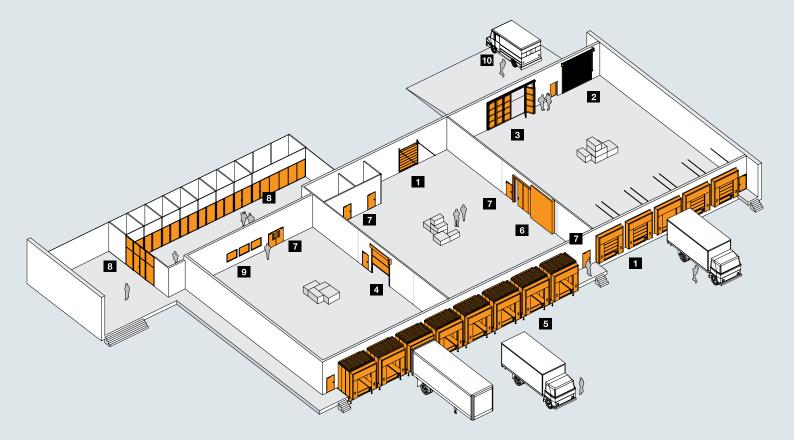
Visibility windows



Loading technology



Service



Hörmann: Quality without Compromise



Hörmann KG Amshausen, Germany



Hörmann KG Dissen, Germany



Hörmann KG Antriebstechnik, Germany

Hörmann KG Brandis, Germany



Hörmann KG Freisen, Germany



Hörmann KG Brockhagen, Germany



Hörmann KG Ichtershausen, Germany



Hörmann KG Werne, Germany



Hörmann Genk NV, Belgium



Hörmann Alkmaar B.V., Netherlands



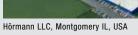


Hörmann Legnica Sp. z o.o., Poland



Hörmann Beijing, China

Hörmann Tianjin, China





Hörmann is the only manufacturer worldwide that offers you a complete range of all major building products from one source. We manufacture in highly-specialised factories using the latest production technologies. The close-meshed network of sales and service companies throughout Europe, and activities in the USA and China, make Hörmann your strong partner for first-class building products, offering "Quality without Compromise".

GARAGE DOORS **OPERATORS** INDUSTRIAL DOORS LOADING EQUIPMENT HINGED DOORS DOOR FRAMES

