



German Quality

Professional engineering, perfect visual appearance



Doors for Public Buildings

Integrated solutions for doors and partition systems







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“A good reputation must be earned.”

August Hörmann (1886-1944)

In line with the founder’s philosophy, the Hörmann brand today is a true promise of quality. The family-owned company has over 80 years of experience in door and operator construction, providing the integrated solutions for new and old buildings. This makes Hörmann product a reassuring purchase.



1 In-house product development

Our highly qualified employees work intensively on new products, continual further developments and improvements to details. The results are market leading position and one-of-a-kind products you can depend on.



2 Modern manufacturing

All doors and operator components that are developed and manufactured by Hörmann are perfectly matched to each other. These products are tested and certified by independent, recognized institutes to ensure your safety. They are manufactured according to the ISO 9001 quality management system.



3 Competent advice

Experienced specialists from our customer-orientated sales organization accompany you from the planning stage through technical clarification, up to the final building inspection. Complete working documentation, such as product catalogues, are not only available in printed form, but are always accessible and up-to-date at www.hoermann.com.

Office Buildings

A clean, bright working environment gives you a great start to the day. Hörmann products meet all of your needs and help create your ideal workplace.

Hotels and Apartments

Only the best sound insulation can promise your customers a comfortable, quiet, personal space. Thus, the choice of design as well as the building materials have increasingly become a necessity for the success of a hotel brand.



Theaters and Cinemas

Various cultural activities enrich daily life. As a public building, theatres provide different forms of cultural programs every day, welcoming a continuous flow of audiences. Hörmann products create a safe, and comfortable movie-watching environment.

Libraries

Sliding your fingers over book spines and wandering around, at libraries you can enjoy a realm of wisdom and delve into an ocean of knowledge. Hörmann products create a silent, undisturbed, comfortable reading environment where you can immerse yourself in books.



Schools and Educational Facilities

Children are naturally curious and unaware of dangers, therefore parents are constantly concerned about their safety. Hörmann products have thoughtfully designed details that perfectly echo the overall design of buildings, while always meeting schools' needs for heat insulation, sound insulation, and safety.



Medicine and Healthcare

Good Health is the prerequisite for happiness. The common goal of today's medical industries is to secure a good medical and healthcare environment. Hörmann provides doors for every functional area in a medical system, ensuring convenient use for patients and medical staff.



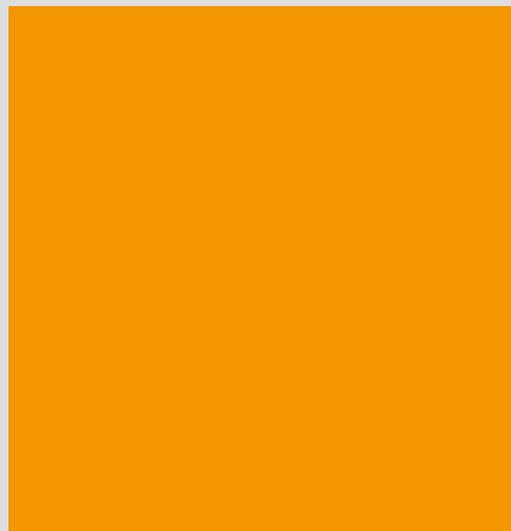
Museums

As showcases displaying human civilization, museums connect ancient times to the future. They are treasuries for passing on and protecting human and natural heritage. Due to its German roots, Hörmann also has a long history and extensive experience. Its quality products benefit from many years of continuous development.



Public Transportation

Public transportation carries a never-ending stream of passengers and their big dreams. High-load, high-frequency, and high-density operations bring challenges to facilities in terms of safety, durability, and cleanliness. Hörmann products have been improved through years of innovation and R&D, and represent the best choice in terms of function and service life.



Steel fire-rated door HC 90 CCC / HCA 60 / HCA 30

Certified according to Chinese Standard GB12955-2008, and has gained the CCC authentication



One criterion for assessing the safety of a public site is its capacity for protection and evacuation in case of incidents. Hörmann steel fire-rated doors provide the widest range of equipment options in order to work seamlessly with integrated fire systems and emergency escape systems to protect your safety. Select materials and advanced engineering are what allow Hörmann steel fire-rated doors to be strong and durable, while requiring less operational and maintenance costs down the road.

■ The first products to successfully pass extended type accreditation for CCC certificates, including more than 800 combinations of specifications and dimensions



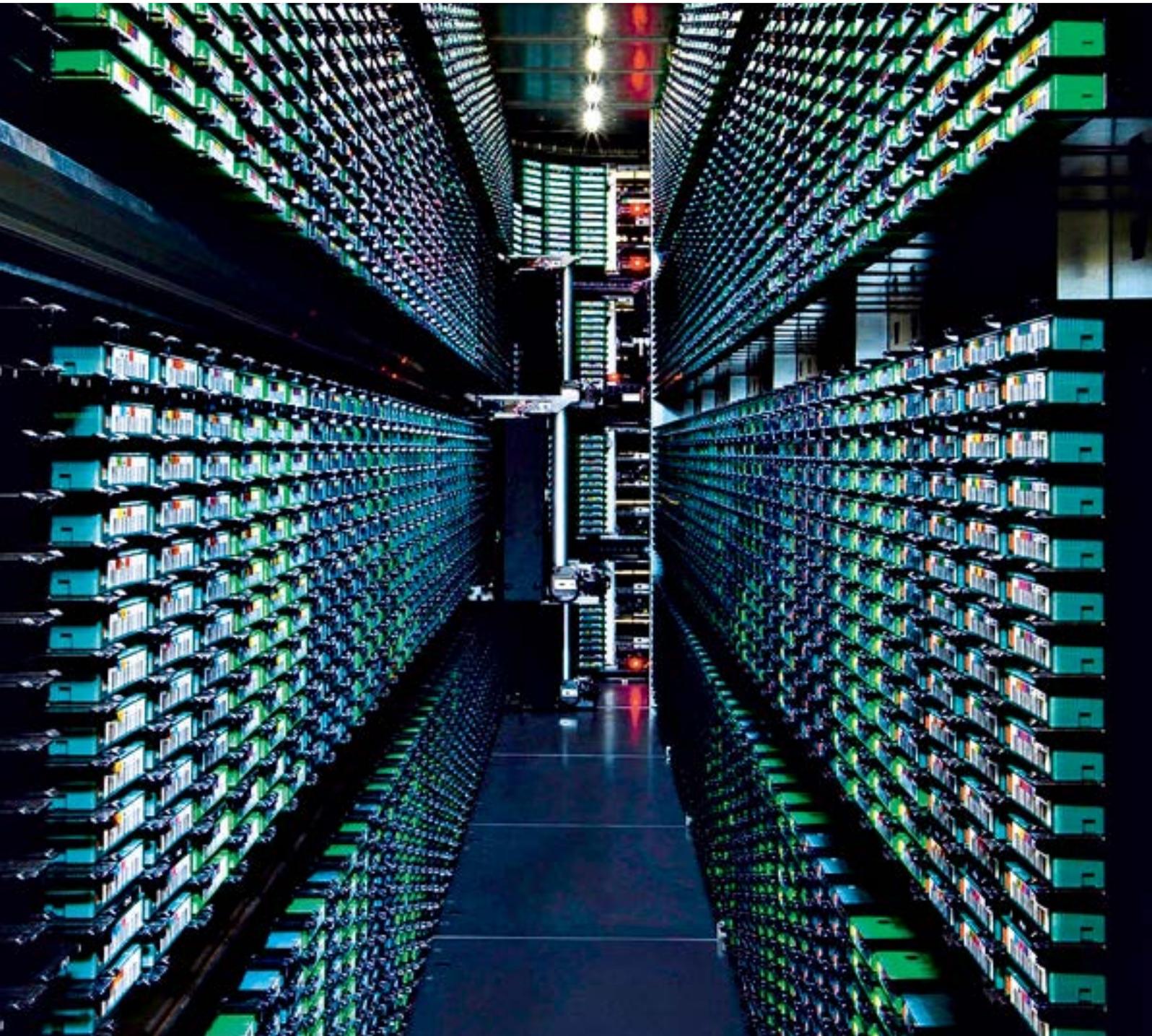
Hörmann offers various fire-rated doors, including steel fire-rated doors and steel high fire-retardant security doors. The door leaves can be equipped with fire-proof glazings, anti-panic bars, etc. to meet requirements for brightness and evacuation. They are extensively deployed in fire compartments of various buildings.

- 50 years of experience and expertise in fire-rated door production, use of selected and proven materials with guaranteed quality;
- Door leaves thickness of 50 mm and 70 mm;
- Door leaves filled with Hörmann's proprietary fire-proof boards, which have excellent heat insulation and fire-resistant functionality, are safe and environmentally friendly, non-toxic and harmless;
- Frames and door leaves equipped with fire expansion seals, which effectively prevent the spread of fire and dense smoke to maximize valuable escape time;
- Multilayer composite heat-insulation fire-proof glass not only ensures heat insulation and fire-resistance, but also meets requirements for brightness and visibility;
- Various accessories such as door closers and anti-panic bars are available to provide different functions.



Steel security door HTS 80, SDSB/C/D, SDDB/C/D

Certified according to Chinese Standard GB 17565-2007

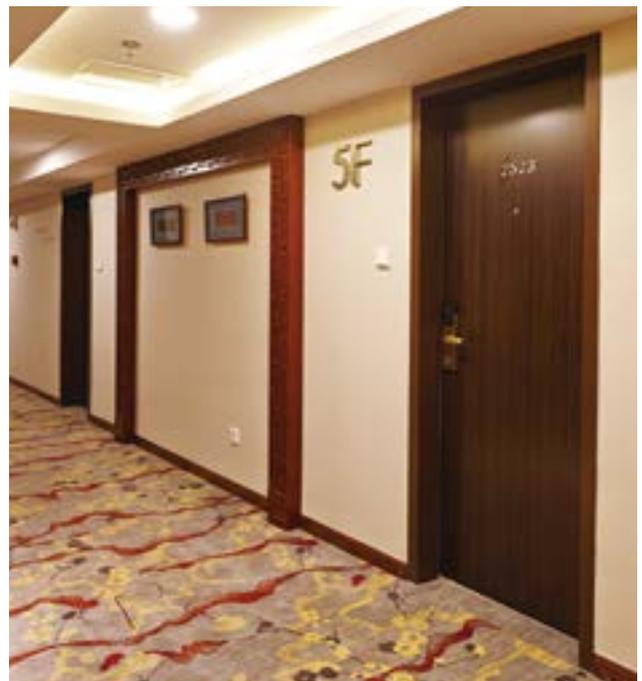


Hörmann steel security doors are a guarantee for the safety of human life and public property. Hörmann inherits its proven engineering designs from Germany and strictly performs research, development, and production in accordance with local National Standards. Our sound entrance control systems are the combination of conscientious designs, high-quality materials, and modern production. Hörmann steel security doors combined with professional security locks, will make your security system perfect.



Hörmann steel security doors meet Chinese Standard GB 17565-2007. There are four classes of security doors available (A,B,C, and D) for keeping unwanted visitors out. These doors feature sophisticated workmanship, an elegant appearance, and solid inner cores. In addition, sound insulation and heat insulation are well secured.

- Door leaf thickness of 100 mm, 80 mm, and 50 mm;
- Door leaves have a special internal design that give Hörmann security doors an excellent break-in resistance and guarantees comprehensive and reliable security;
- Various models and configurations of your choice, meeting your functional requirements as well as your needs for different levels of break-in resistance;
- Outstanding heat insulation and sound insulation effectively reduces energy consumption and noise;
- Plentiful and varied surface options to match diverse decorative styles;
- Smart opening makes your life more convenient and safer.

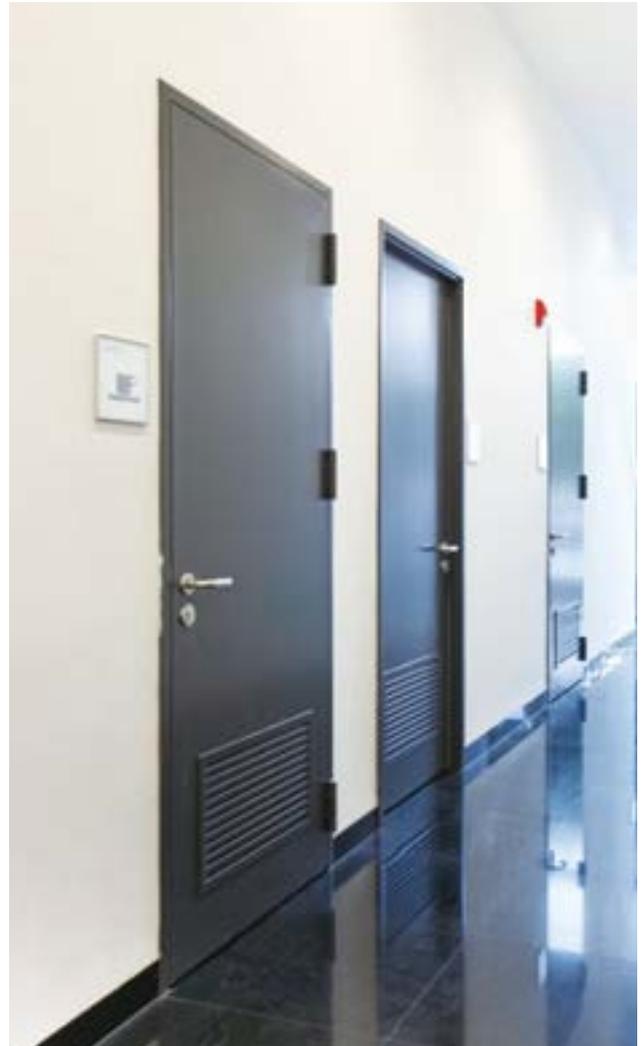


Steel multi-purpose door HMS

Meeting needs for diverse functions



Hörmann steel multi-purpose doors are strong, durable, and have great heat and sound insulation, making them extensively usable in all areas of a building. Their varied specifications and flexible configurations work with various accessories, such as glazing, steel ventilation grilles and hardware. This allows them to perfectly meet diverse requirements and be the best solution for public building doors.



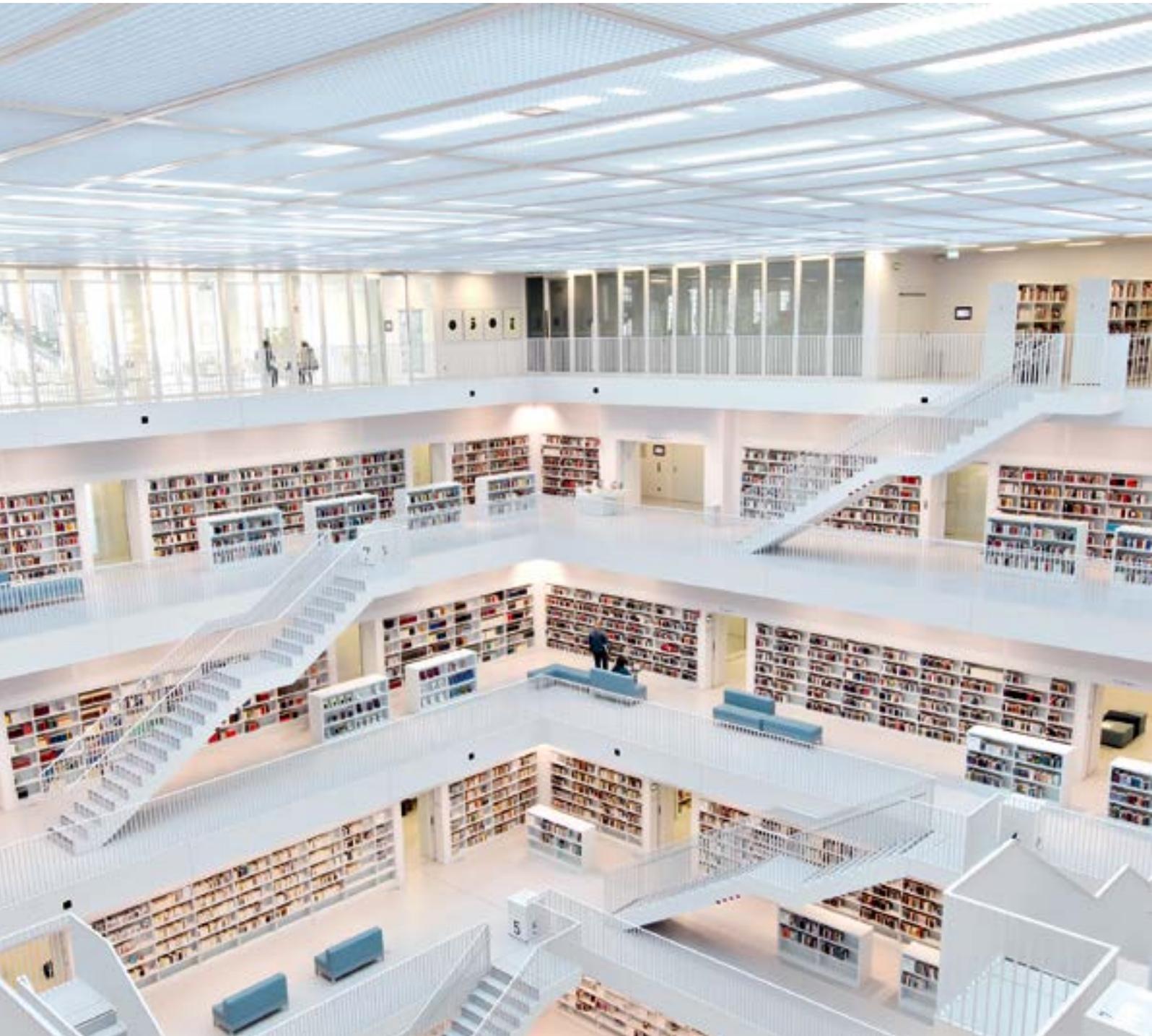
Hörmann steel multi-purpose doors are strong, reliable, excellent quality and widely applicable. Their great quality stems from high-grade materials and constantly improved processing technology.

- Door leaf thickness of 50 mm;
- Door leaves filled with mineral wool to ensure outstanding heat insulation and sound insulation;
- Various glazings or steel louvres arranged on the door leaf to provide brightness and ventilation;
- Configurable top and side elements fitting in larger openings, providing brightness and ventilation;
- Heavy-duty hinges and other quality hardware accessories make it long lasting and durable;
- Various decograin surface and colored powder coating of your choice work well with various building design styles.



Steel interior door ZKS / ZKD

Beauty, practicality, and comfort



Hörmann steel interior doors are versatile, durable, and easy to close and open, making them the best choice for a comfortable office environment. Different types of glazings are available to meet different needs for brightness and visibility. Make your office more vivid by choosing among nearly 200 RAL color options and various decograin surfaces. This way, your doors will fulfill all your functional requirements and blend perfectly with the surrounding environment and style.

Structural opening width for a single-leaf door up to 1350 mm



Hörmann steel interior door leaves are filled with high-strength honeycomb paper. This makes them easy to open, yet strong and durable. The all-round multi-cavity seals on the frame and the nylon latch ensure the door leaf closes quietly and guarantee great airtightness.

- Door leaf thickness of 40 mm;
- Good airtightness, sound insulation and heat insulation give you a private space;
- Structural opening limit for a single-leaf door as wide as 1350 mm, extra-large clear passage width allows convenient access, making the doors particularly suitable for sickrooms where hospital beds are expected to pass;
- Various surface options perfectly match different decorative styles;
- Diverse glazings and steel ventilation grilles as configurable options meet various needs for brightness and ventilation;
- Flush and rebated door leaves available for different uses and designs;
- Optional electric door operator for automatic door closing and opening.



Wooden interior door with steel frame HWS / HWD

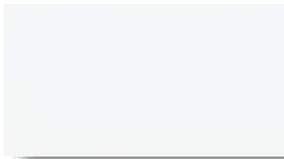
Safe, environmentally friendly, long lasting and durable



Hörmann wooden interior door with steel frame is safe, environmentally friendly, long lasting, durable, and manufactured to the highest door quality standards. The robustness of the steel frames together with the elegance of the wooden door leaves make them strong and reliable yet graceful and luxurious. Your comfortable user experience is the driving force behind Hörmann's continuous innovation.

Durat surface

Lifelike, resistant to scratch and wear



White



Lime oak



European maple



Rich elm



Sweet cherry



European walnut



Teak



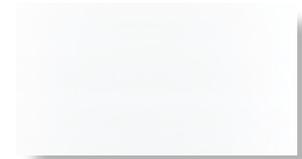
Ryhuo ebony



Golden black oak

Veneer surface

Natural grains, green choices



Oak



Walnut

Hörmann wooden interior doors with steel frame are easy to open, versatile and durable. The steel frames along with the wooden door leaves form strong and beautiful combinations. The door leaves are filled with tubular chipboard imported from Germany or high-strength honeycomb paper, thereby providing sound insulation from the environment. Colorful options create a warm and comfortable office environment.

- Door leaf thickness of 40 mm;
- Unique combinations of steel frames and wooden door leaves are long lasting and durable;
- Door leaves filled with tubular chipboard imported from Germany or high-strength honeycomb paper ensure the door leaves have good heat insulation and sound insulation;
- Optional electric door operator provides automatic door-opening and closing functions;
- Flush or rebated door leaves available for different uses and designs;
- Various glazings available.



Steel entrance door HE

Diverse configurations, different functions

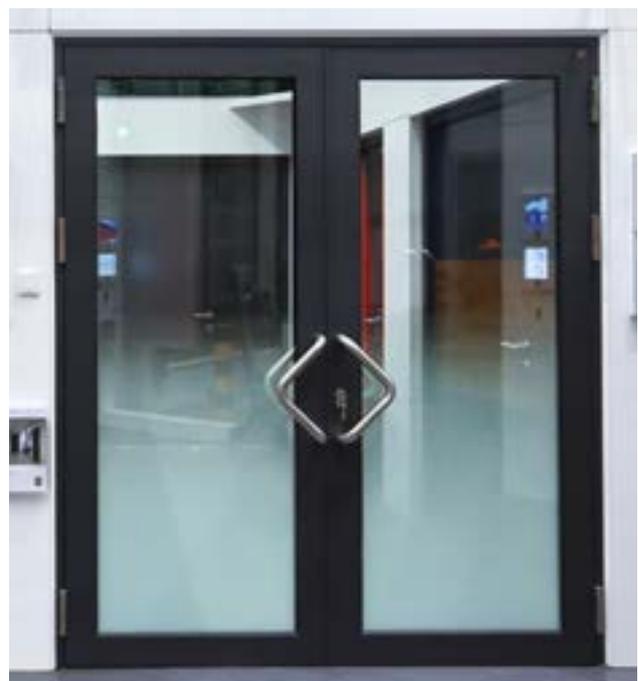


Hörmann steel entrance doors have transparent, strong, large-area clear glazing, allowing great indoor brightness and a good visibility for safe passage. For better security management, the steel entrance doors can be equipped with an access control system to meet different needs for area safety and security.



Hörmann steel entrance doors have steel door leaves configured with large-area glazing to provide brightness and allow you to see through the doors before passing. Quality hardware accessories ensure great robustness under frequent door closing and opening in public areas.

- Door leaf thickness of 50 mm;
- Steel door leaves filled with quality mineral wool combined with clear glazing, wherein the glazing may be single-layer or double-layer tempered glass for transparency and safety;
- Standard distance between edges of the glazing panel and that of the door leaf is 150 mm, alternatively you may also select 110 mm according to your needs;
- Door leaf is provided with stylish handle set on both sides;
- Nearly 200 RAL coating colors available to perfectly match decorative styles of different buildings;
- Varied glass films available to provide brightness while ensuring privacy.



Steel apartment door HAS / HAD

More comfort, more safety

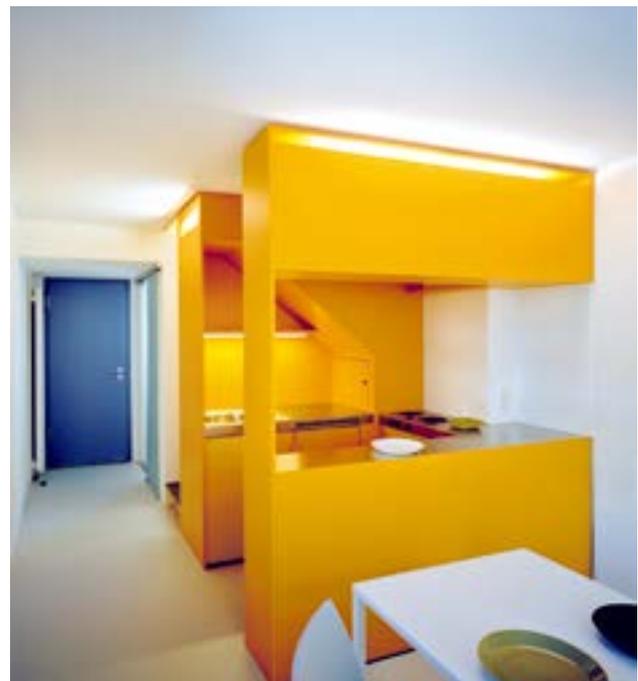


Hörmann steel apartment doors have outstanding heat and sound insulation, creating a silent and comfortable environment. With their elaborate design and careful selection of materials, Hörmann's devotion to perfection is demonstrated in all details of its products. Numerous forms of configurations and colorful surfaces that match various interior decorative styles, giving you a whole new working and living environment.



Hörmann steel apartment doors have good heat and sound insulation, and are equipped with quality hardware. Different styles of paneled design combined with color coatings or different decograin surface will emphasize your personal decorative style.

- Door leaf thickness of 50 mm;
- Door leaves filled with mineral wool;
- Door leaves have flush or rebated design;
- Glazing options according to your needs;
- Paneled design;
- Decograin surface and colored powder coatings of your choice to match various design styles;
- Optional thresholds to meet even higher demands for sound insulation and heat insulation.



Steel cleanroom door HCR 40

Special designs meet requirements for cleanliness



Hörmann steel cleanroom doors have smooth and even surfaces that are easy to clean, making them particularly suitable for sites requiring more in terms of cleanliness. The unique design features seamless joints, preventing growth of bacteria. The flush edges of the glazing are easy to clean, improving interior brightness. There are various opening options available, effectively preventing the spread of bacteria to create a germless, clean environment.



In places where cleanliness is of great importance, such as treatment rooms and laboratories, all instruments, equipment, doors and windows used must meet sanitary requirements. Cleanroom doors are designed to have smooth surfaces that are easy to clean and disinfect, thereby preventing growth of bacteria and being suitable for clean places.

- Door leaf thickness of 40 mm;
- The flush door leaf has smooth surfaces when combined with concealed hinges and a concealed door closer, reducing the gaps for bacteria to hide in;
- A gap in-between the leaf and a frame closed with filler are optional for easy daily cleaning and disinfecting activities;
- Optional flush glazing: glass surfaces are level with the leaf, leaving no cleaning dead space;
- Optional anti-bacterial powder coating containing inorganic disinfectant that effectively kills bacteria and inhibits growth of bacteria to protect your health.



Steel manual sliding door HT

Steel electric sliding door HTE

Space-saving, gentle operation



Hörmann steel sliding doors are the best choice for accessible areas. The door leaves are light yet strong and easy to open for convenient passage of the elderly, disabled, and children. They are suitable not only for medical and healthcare facilities, but also other public areas. As the door leaf needs no pivoting radius, it effectively saves interior space. High-quality optional hardware and the door-closing buffer, as well as the electric control system, allow gentle door opening and closing.



Hörmann offers manually and electrically operated sliding doors. These doors may be customized to meet further your needs for various functions, such as airtightness and safety.

Manual sliding doors

- Door leaf thickness of 30 mm;
- Door opens sideways for high accessibility and the leaf needs no pivoting radius, thereby saving interior space;
- Door leaf surfaces are optionally coated with anti-bacterial powder to prevent cross-infection and contribute to a germless environment;
- Quality suspension system makes the door light yet strong and easy to open, so that all patients can open the door effortlessly;
- Various concealed and non-concealed installations available for matching diverse styles.

Electric sliding doors

- Door leaf thickness of 30 mm;
- Various opening options, including infrared radar and kick switch;
- Automatic delayed door closing (programmable delay time) available with various modes offered, such as automatic, remain open, remain closed, semi-open, and one-way access;
- Optional Infrared protection photo sensor provides contactless safe protection;
- Optional stainless steel decoration plate for door leaf surfaces for improved appearance and protection of the door leaf.



Steel swing door HSW

Two-way opening, smoother passing



Hörmann steel swing doors are rugged, durable and suitable for areas where two-way passing is frequent, such as pathways to and from a restaurant's kitchen or back office. The doors are equipped with quality hardware and accessories, such as floor springs to ensure both convenient door operation and good airtightness. All of these features make the door stand up to high-frequency use.



Hörmann steel swing doors are suitable for passages where two-way opening operations are performed frequently. The stainless steel protective plates not only decorative, but also protect door leaf. The various glazings provide convenient visibility.

- Door leaf thickness of 40 mm;
- Two-way opening, practical and agile;
- Door leaf provided with all-round sealing brush;
- Various forms of glazing available;
- Various stainless steel protective plates available;
- Various coatings, including artificial wood veneers and nearly 200 RAL coating colors available.



Steel impact swing door HSWi

Two-way opening, convenient transportation



Hörmann steel impact swing doors are suitable for areas where two-way passing is frequent and are an ideal choice for warehouses and logistic facilities. High-quality materials and hardware make the doors strong, durable and easy to operate. Door leaves are provided with a high elastic, curved anti-crash board (High Density Polyethylene, HDPE) on both sides to effectively resist impacts. The door leaf features a reinforced design and impact-resistant padding, which protects it from damage.



Hörmann steel anti-crash double-action doors are perfect for passages with frequent two-way traffic. Anti-crash guards protect the door leaf, and the varied forms of glazing panels allow a clear view of the passing area to ensure staff safety.

- Door leaf thickness of 40 mm;
- Two-way opening, practical and agile;
- Door leaf filled with strong waterproof plywood, making it resistant to impacts;
- Door leaf provided with all-around rubber seals;
- A-type composite glazing available;
- Strong anti-crash guard protects the door leaf from collision;
- Nearly 200 RAL coating colors available.



Glass door HG and partition wall

Making your office spacious and comfortable



Hörmann glass doors and partition wall can be easily installed without changing a building's structure, and are the best solutions for partitioning open space. With ingenious designs and high-quality materials, Hörmann makes every effort to create a bright and clear working environment for you. Various design films and movable blinds for partition walls, gives you both interior brightness and privacy.



Hörmann glass doors and partition walls are constructed from strong steel frames and high-quality tempered glass to effectively partition space and preserve interior brightness.

Glass doors

- A quality frame and door leaf (consisting of a pane of 10 mm tempered glass), contribute to the overall strength of the glass door;
- Specially designed aluminium stainless steel 3D hinges for glass doors, allow for smoother andquieter door operation;
- Elegant, ergonomic aluminium handles combined with high strength locks make the glass doors beautiful and resistant;
- Delicate, aesthetic, strong, and durable; The bolt configured to engage in the corresponding floor recess enables lock up of the glass door, making the door more secure.

Partition wall

- Single-layer and double-layer tempered glass with different levels of thickness available;
- Powder-coated steel frame with even, fine, smooth and polished surfaces, nearly 200 RAL colors available to choose from;
- Various door models such as HA- steel apartment doors, HG glass doors, HE steel entrance doors, ZK- steel interior doors and HW- wooden interior doors with steel frame configured to be installed on the partition walls;
- Manual or electric shutters optionally installed on partition wall to provide both brightness and privacy by changing angles and lifting the blinds.



Steel tubular door and partition system

Safe and strong, uniting beauty and reliability



Hörmann steel tubular doors and partition systems use high-strength steel profiles as frames on which large glazings are inlaid. Clear glass and fine profiles prevent loss of light, allowing you to enjoy sunshine and a great view from the interior. They can separate spaces, and due to their fire-resistant and heat-insulating functions, are widely applicable for forming fire compartments.



The steel profiles are made of fire-proof materials suitable to form fire compartments. They are processed using state-of-the-art technology on high-precision equipment. The steel profiles are stronger and more durable than aluminium and provide a finer, more delicate appearance. This makes them ideal for fitting in various passages and office areas.

- Door leaf thickness of 55 mm or 70 mm;
- Steel profile is tough, strong, fine and elegant; RAL coating with different colors available for the profile surface according to the customer's needs;
- Equipped with tempered or fireproof clear glazing to create transparent and bright spaces;
- Four product series: standard, heat insulation, fire insulation and heat / fire insulation;
- Various models available, including single-leaf doors, double-leaf doors, partition walls and more.





Various colours to choose from



Powder-coated surfaces

Coatings on door surfaces that are made using the advanced powder-coating technology are even, delicate, smooth and shining. This provides Hörmann steel doors with the most attractive decorative effects. You may choose the colour you like among the RAL colour range to create a warm interior atmosphere.

Decograin surfaces

Hörmann steel doors may have their leaves decorated with decograin surfaces, which are made of imported high-quality artificial wood surface film and attached to steel plates perfectly using advanced heat-press binding technology. The resulting door leaf not only displays lifelike wood grains but also has good UV resistance, making it long lasting, durable, and resistant to fading.



Granada Maple



Kings Oak



Golden Oak



Hungary Ash Cognac



Wallis Plum Natural



Meran Apple



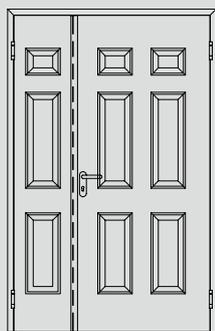
Mahogany



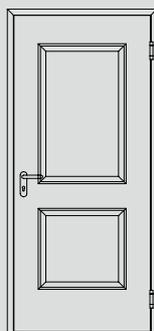
Dark Mahogany



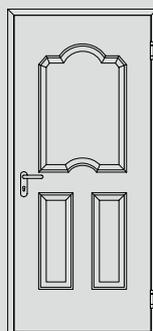
Horizontal Oak Dark



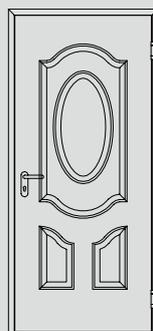
Narrow 3 / Basic 6



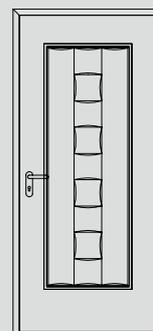
Basic 2



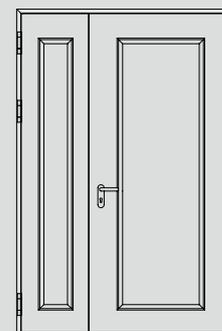
Europa vertical 3



Europa Round 3



Kingly



Narrow rectangular /rectangular

Due to printing deviation, the colours and artificial wood veneers shown in samples may be different from the actual products. Please contact Hörmann sales for latest information of decograin range.



Glazing and top elements

Glazing

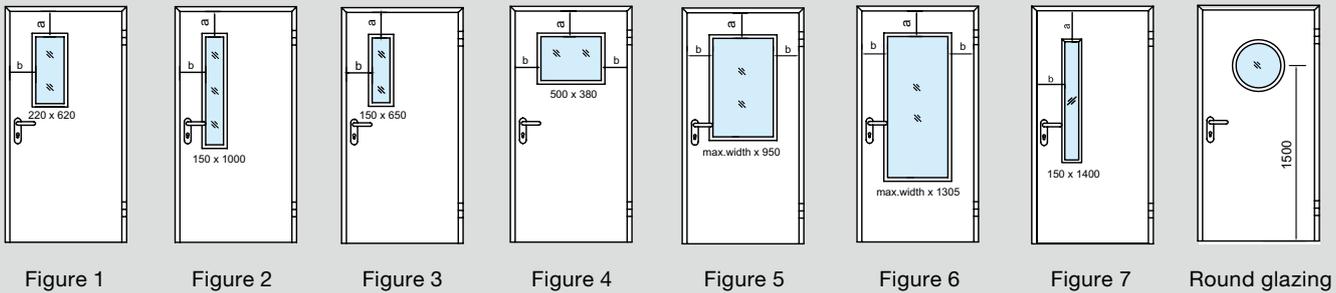


Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

Figure 6

Figure 7

Round glazing



Optional glazing 1

Optional glazing 2

Optional glazing 3

	Structural opening height ≤ 2100 mm	Structural opening height > 2100 mm
a	= 200 mm	= H - 1900 mm
b	≥ 200 mm	≥ 200 mm
c	≥ 400 mm	≥ 400 mm

Round glazing panel's diameter $\varnothing = 300$ mm

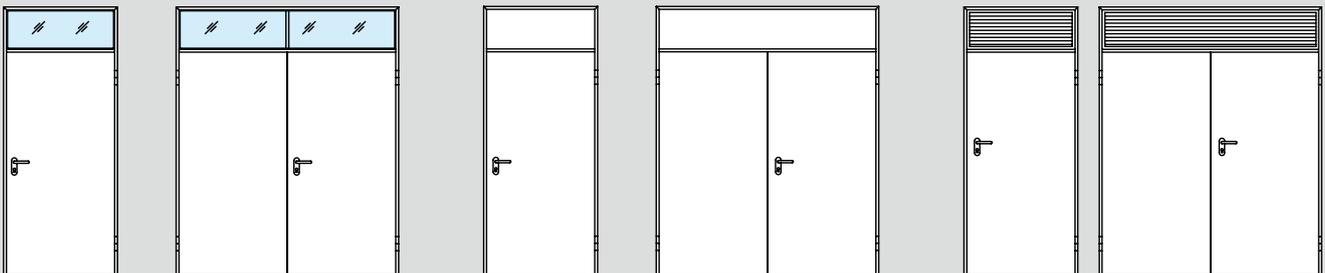
Figure 1, Figure 2, Figure 3, Round glazing, Optional glazing 1 applicable to HC 90 CCC, HCA 60 and HCA 30.

Figure 1, Figure 4, Figure 5, Figure 6, Figure 7, Round glazing, Optional glazing 2, Optional glazing 3 applicable to EZ, ZK-, HSW, HA-.

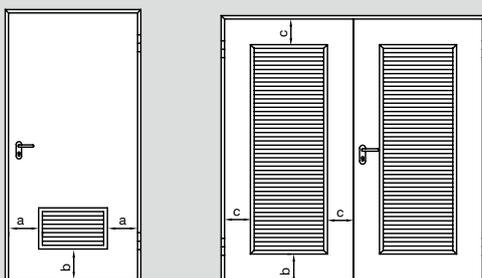
Figure 1, Figure 4, Figure 5, Figure 6, Round glazing, Optional glazing 2, Optional glazing 3 applicable to HMS.

Figure 1, Figure 4, Figure 5, Figure 7, Optional glazing 2 applicable to HCR 40, HT and HTE.

Top light / panel / steel ventilation grille for HA-, ZK-, HG, HE and HMS door *



Steel ventilation grille for HMS, HA- door



Please note critical dimensions below when ordering.

a ≥ 150 mm

b ≥ 150 mm

c ≥ 200 mm

* Mullion shall be applied if the structural opening width exceeds 2500 mm.

Top steel ventilation grille is only available for HMS, HA- door.

Technical data

	Model	Fire protection time	Security level	Heat insulation coefficient	Acoustical reduction coefficient	Door leaf form	Door leaf thickness	Door leaf steel-plate thickness
Steel fire-rated doors	HC 90 CCC	90 min	-	1.8/ 1.9 W/(m ² ·K)	38 dB	Rebated	70 mm	0.8 / 1.0 mm
	HCA 60	60 min	-	1.9/ 2.4 W/(m ² ·K)	33 dB	Flush closing	50 mm	0.8 mm
	HCA 30	30 min	-	-	-	Flush closing	50 mm	0.8 mm
Steel high fire-retardant security doors	HC 90 SDD	90 min	D	1.8 / 1.9 W/(m ² ·K)	38 dB	Rebated	70 mm	0.8 mm
	HC 60 SDC	60 min	C	2.0 W/(m ² ·K)	38/39 dB	Rebated	60 mm	0.8 mm
	HCSD	30 min	C	2.2 W/(m ² ·K)	33 dB	Flush closing	50 mm	0.8 mm
Steel security doors	HTS 100	-	A	1.7/ 1.8 W/(m ² ·K)	38/37 dB	Flush closing	100 mm	1.0 mm
	HTS 80	-	B	1.7 W/(m ² ·K)	40 dB	Flush closing	80 mm	1.0 mm
	SDSB / SDDB	-	B	1.8/ 2.2 W/(m ² ·K)	35 dB	Flush closing/ rebated	50 mm	1.0 mm
	SDSC / SDDC	-	C	-	-	Flush closing/ rebated	50 mm	1.0 mm
	SDDSD / SDDD	-	D	-	-	Flush closing/ rebated	50 mm	0.8 mm
Steel multi-purpose doors	HMS	-	-	-	-	Flush closing	50 mm	0.8 mm
Steel interior doors	ZKS / ZKD	-	-	3.0 W/(m ² ·K)	32/30/ 31 dB	Flush closing/ rebated	40 mm	0.6 / 0.8 mm
Wooden interior doors with steel frame	HWS / HWD	-	-	-	-	Flush closing/ rebated	40 mm	-
Steel apartment doors	HAS / HAD	-	-	1.7/ 1.8 W/(m ² ·K)	34/33 dB	Flush closing/ rebated	50 mm	0.8 mm
Steel cleanroom doors	HCR 40	-	-	-	-	Flush closing	40 mm	0.6 mm
Steel entrance doors	HE	-	-	-	-	Flush closing/ rebated	50 mm	0.8 mm
Steel manual sliding doors	HT	-	-	-	-	-	30 mm	0.6/0.8 mm
Steel electric sliding doors	HTE	-	-	-	-	-	30 mm	0.6/0.8 mm
Steel swing doors	HSW	-	-	-	-	Flush closing	40 mm	0.6 mm
Steel impact swing doors	HSWi	-	-	-	-	Flush closing	40 mm	0.8 mm
Glass doors	HG	-	-	-	-	-	10 mm tempered glass	-
Partition walls	-	-	-	-	-	-	-	-
Steel tubular doors	H55	-	-	-	-	-	55 mm	-
	H55 F	Fire-resistant	-	-	-	-	55 mm	-
	H70	Thermal insulation	-	-	-	-	70 mm	-
	H70 F	Heat-insulating and fire-resistant	-	-	-	-	70 mm	-
Partition systems	H55	-	-	-	-	-	55 mm	-
	H55 F	Fire-resistant	-	-	-	-	55 mm	-
	H70	Thermal insulation	-	-	-	-	70 mm	-
	H70 F	Heat-insulating and fire-resistant	-	-	-	-	70 mm	-

Frame steel-plate thickness	Standard frame width	Internal filling	Limit size (width x height)		Standard handles	Standard locks
			Single-leaf	Double-leaf		
1.5/2.0 mm	114/150 mm	Fire-proof board	1200 x 2500 mm	2500 x 3000 mm	Stainless steel fire protection lever handle set D-110	Fire-resistant mortise lock
1.5 mm	114 mm	Fire-proof board	1000 x 2300 mm	2100 x 2300 mm		
1.5 mm	100 mm	Fire-proof board	1000 x 2300 mm	2100 x 2300 mm		
2.0 mm	114 mm	Fire-proof board	1000 x 2300 mm	2100 x 2300 mm		
2.0 mm	114 mm	Fire-proof board	1200 x 2500 mm	2500 x 2300 mm	Stainless steel fire protection lever handle set, with anti-drill protection	Top security multi-points lock
2.0 mm	150 mm	Fire-proof board	1000 x 2300 mm	1800 x 2300 mm		
2.0 mm	150 mm	Mineral wool+ Fire-proof board+ Mineral wool	1400 x 2700 mm	2700 x 2700 mm	Outside stainless steel handle HOE 100 with anti-drill protection, inside stainless steel handle D-110 with rose	
2.0 mm	130 mm		1300 x 2500 mm	2500 x 2500 mm	Aluminium lever/knob handle set D-110/G-170 with anti-drill protection	
2.0 mm	114 mm	Mineral wool	1300 x 2500 mm	2500 x 2500 mm	Aluminium alloy lever/lever handle set D-110, with anti-drill protection	Three-point security locks
2.0 mm	114 mm		1300 x 2500 mm	2500 x 2500 mm		
1.5 mm	114 mm		1300 x 2500 mm	2500 x 2500 mm		Security lock
1.5 mm	114 mm	Mineral wool or honeycomb paper	1500 x 3000 mm	3000 x 3000 mm	Black nylon lever/lever handle set D-110	Fire-resistant mortise lock
1.5 mm	114 mm	Honeycomb paper	1350 x 2500 mm	2500 x 2500 mm	Black nylon lever/lever handle set D-110	ZK lock
-	114 mm	Tubular chipboard or honeycomb paper	1200 x 2500 mm	2400 x 2500 mm	Black nylon lever/lever handle set D-110	ZK lock
1.5 mm	114 mm	Mineral wool	1300 x 2500 mm	2500 x 2500 mm	Black nylon lever/lever handle set D-110	Fire-resistant mortise lock
1.5 mm	114 mm	Honeycomb paper	1300 x 2500 mm	2500 x 2500 mm	Black nylon lever/lever handle set D-110	ZK lock
1.5 mm	114 mm	Mineral wool	1300 x 2500 mm	2500 x 2500 mm	Stainless steel handle HOE 100 (double sided)	Fire-resistant mortise lock
1.5 mm	160 mm	Honeycomb paper	1500 x 2500 mm	3000 x 2500 mm	Stainless steel handle HOE 150	Lock for sliding doors
1.5 mm	200 mm	Honeycomb paper	1500 x 2500 mm	-	-	-
1.5 mm	114 mm	Honeycomb paper	1250 x 2500 mm	2400 x 2500 mm	Stainless steel pull/push plate	-
2.0 mm	114 mm	Waterproof multilayer plywood	1100 x 2500 mm	2200 x 2500 mm	Curved anti-crash board	-
1.5 mm	114 mm	-	1200 x 2500 mm	2400 x 2500 mm	Aluminium D-110 lever/lever handle set for HG	Lock for glass doors
1.5 mm	114 mm	-	-	-	-	-
			1200 x 2800 mm (indoor)	2400 x 2800 mm (indoor)	-	-
			1200 x 2500 mm (outdoor)	2400 x 2500 mm (outdoor)	-	-
			1200 x 2800 mm (indoor)	2400 x 2800 mm (indoor)	-	-
			1200 x 2800 mm (indoor)	2400 x 2800 mm (indoor)	-	-
			1200 x 2500 mm (indoor)	2400 x 2500 mm (outdoor)	-	-
			1000 x 2300 mm (indoor)	2100 x 2300 mm (indoor)	-	-
			1500 x 3000 mm	-	-	-
			1100 x 2800 mm	-	-	-
			1500 x 3000 mm	-	-	-
			Not applicable	-	-	-

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