



High-Speed Doors

For optimized material flow and improved efficiency



*Hochwertige Qualität
Engineered in Germany*

HÖRMANN





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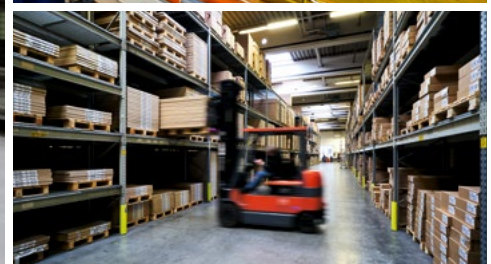
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Brand quality originate from Germany



After over 90 years of relentless effort, the Hörmann brand today is a true promise of quality. This is not only attributed to the rigorous and professional approach rooted in German craftsmanship spirit, but also stems from the continuous accumulation and innovation over years.

Our highly specialized factories and R&D teams are committed to developing and manufacturing products that offer excellent quality, safety, and durability. This is why all Hörmann doors and key components make durability tests under strictly realistic conditions to ensure all products from Hörmann are mature and reliable, this is also a great help to the success of your ambitious projects. Our presence in the global economy's key regions makes us a strong, future-oriented partner for industrial and public construction projects.



Security and Care in Each Detail Competence Makes Good Quality



Precision and Innovation for product development

Our continuous improvement in every detail and constant focus on research and development are the cores of maintaining premium quality. Thanks to our globally leading development teams of superior competence, we achieve hundreds of technological innovations each year to maintain competitive advantage and offer greater security for more and more homes across the world.

Excellent services throughout

We pursue perfection with highly professional and experienced service staff and stay closely in touch with customers to provide tailor-made door solutions, including design, installation and aftersales service.

Globally leading production process and technology

Each of our specialized factory is equipped with advanced processing equipment for manufacturing. Highly automated production lines ensure high-quality products and individualized solutions for different customers.

Reliable quality assurance

Our internal and external quality control systems guarantee product quality. We aim at continuous learning and improving through services. Customers are the everlasting drive for ongoing improvements.



Spiral, Sectional High-speed Doors

These doors are characterized by their good thermal insulation and fast opening speed up to 2.5 m/s, either through spiral bracket or vertical/horizontal track. The double-skinned galvanized insulation door section with PU foam infill makes the whole door thermal insulation up to 1.95 W/(m²·K). The high opening and closing speeds of these doors optimise work processes and significantly accelerate logistics processes.





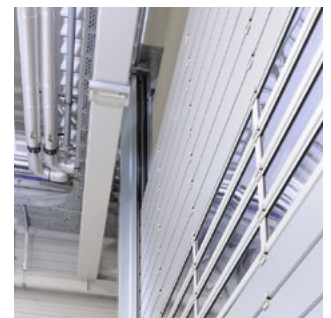
Spiral roll-up technology
Door type: HS 7030 PU 42



Sectional track type N
Door type: HS 5015 PU N 42



Sectional track type H
Door type: HS 5015 PU H 42



Sectional track type V
Door type: HS 6015 PU V 42



Spiral high-speed door HS 7030 PU 42

A compact spiral guide

The sections are securely guided into a spiral bracket without any contact. With the good-performance 3-phase Servo control and the chain mechanism with counterweight / spring compensation, the door reaches an opening speed of up to 2.5 m/s. Spiral door HS 7030 PU 42 can also be fitted externally.

Counterweight system

For most ordering sizes, the door is standard with counterweight system. The belt mechanism with counterweights guarantees a long service life with constant use.

→ For more detailed information, please refer to page 14



Spiral high-speed door HS 7030 PU 42



Sectional high-speed door HS 5015 PU N/H 42

The space-saving track application (N track)

For tight spaces in the lintel area, we recommend track application N.

A chain mechanism with spring compensation runs the sections into horizontal tracks. This requires a low headroom of 480 mm.

The adjustable track application (H track)

The sections are guided in horizontal tracks and can be diverted flexibly depending on the fitting situation. Thus, the door can be fitted behind or above supply lines and crane tracks. Thanks to the belt mechanism with counterweights, the door is relatively low-wear and long-lasting.

→ For more detailed information, please refer to page 14





Top left: Sectional high-speed door HS 5015 PU N 42.

Top right: Sectional high-speed door HS 5015 PU H 42.

Bottom: Sectional high-speed door HS 5015 PU H 42.





Sectional high-speed door HS 6015 PU V 42.





Sectional high-speed door HS 6015 PU V 42

Dependable with less wear

The sections run vertically on the wall of the hall, ensuring that the door cycles are relatively quiet and wear-free. The belt mechanism with counterweights guarantees a long service life with constant use.

→ For more detailed information, please refer to page 14

Spiral, Sectional High-speed Doors

Door section

Double-skinned thermal insulated door section as standard

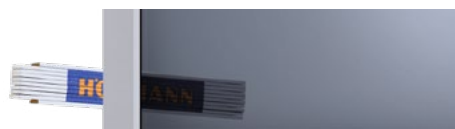
The 42 mm hot-galvanized, double-skinned sections **1** with PU rigid foam infill provide for relatively good thermal insulation. The doors are supplied as standard in white aluminum (RAL 9006) on both sides. The exterior is characterized by the fine Micrograin lines **3**, on the interior the sections are stucco-textured. **4** Other RAL colors are also available to match different architectural styles.

Optional glazing

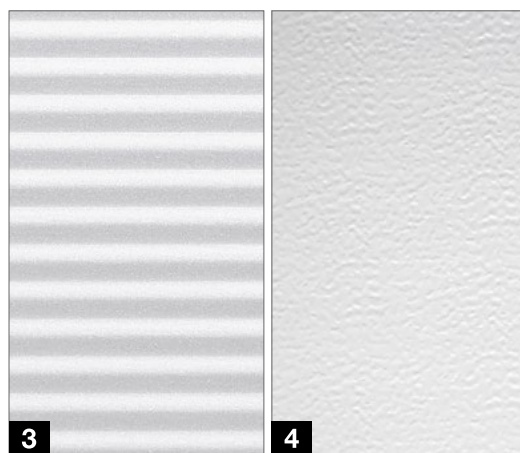
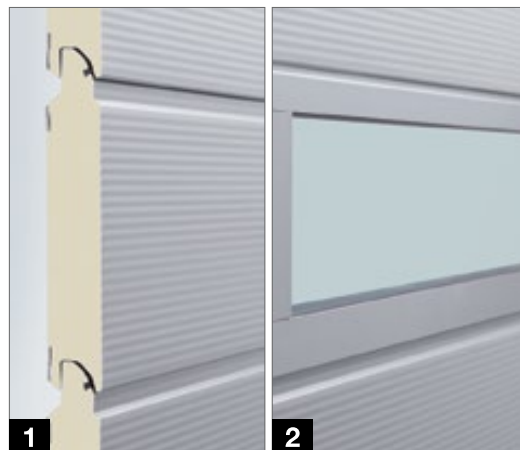
26-mm-thick DURATEC double-glazing **2** guarantees strong scratch resistance and good thermal insulation values. An aluminum rail construction in natural finish E6 / EV 1 divides the glazing using stabilizing intermediate spacers.



Clear double panes with aluminium profiles



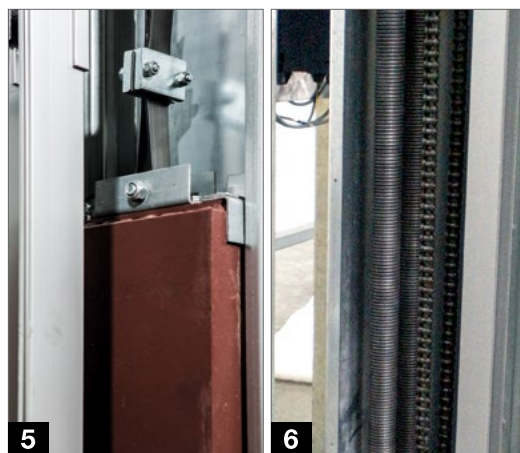
Grey-tinted clear double panes with aluminium profiles



Steel side guides with integrated counter-balance system

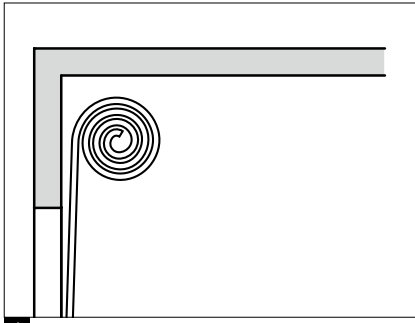
The standard galvanized side guides integrates a counterweight or tension spring balancing system, which assists the door operator in quickly opening and closing the door through a chain drive mechanism. This is not only an energy-saving solution, but also greatly extends the service life of the door operator. The steel flat belt used for counter balance system is extremely durable, and the safety level is equivalent to the flat belts used in the elevator industry. Most sizes come standard with the counterweight balance system, eliminating the need for regular replacement in the future.

For door in large size, tension spring balance system is equipped as standard, ensuring a longer maintenance cycle. Each maintenance cycle can guarantee 250,000 door openings and closings (please install correctly and maintain regularly)



Spiral, Sectional High-speed Doors

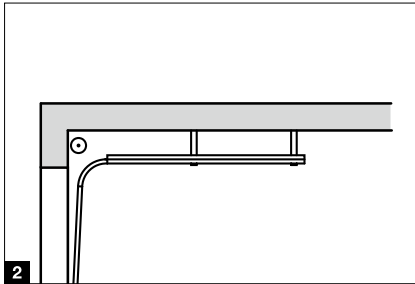
Track application



1

Spiral high-speed door HS 7030 PU 42 ¹

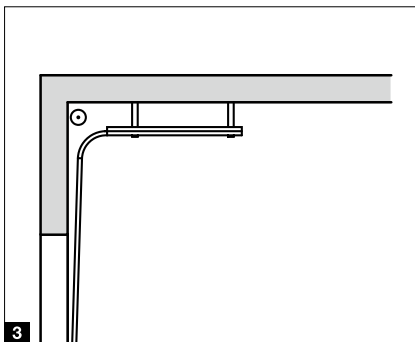
The sections are securely guided into a spiral bracket without any contact. With the good-performance 3-phase Servo control and the chain mechanism with counterweight / spring compensation, the door reaches an opening speed of up to 2.5 m/s. Spiral door HS 7030 PU 42 can also be fitted externally.



2

Sectional high-speed door type HS 5015 PU N 42 ²

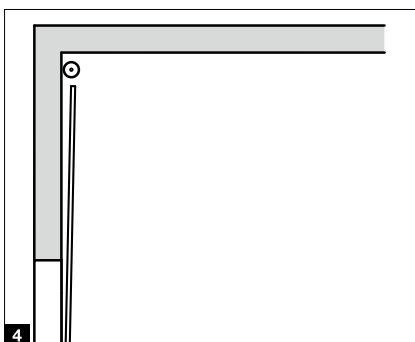
For tight spaces in the lintel area, we recommend track application N. A chain mechanism with spring compensation runs the sections into horizontal tracks. This requires a low headroom of 480 mm.



3

Sectional high-speed door type HS 5015 PU H 42 ³

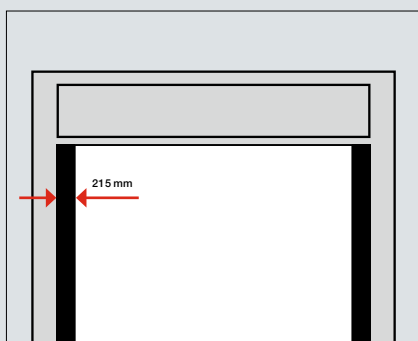
The sections are guided in horizontal tracks and can be diverted flexibly depending on the fitting situation. Thus, the door can be fitted behind or above supply lines and crane tracks. Thanks to the belt mechanism with counterweights, the door is relatively low-wear and long-lasting.



4

Sectional high-speed door type HS 6015 PU V 42 ⁴

The sections run vertically on the wall of the hall, ensuring that the door cycles are relatively quiet and wear-free. The belt mechanism with counterweights guarantees a long service life with constant use.



Spiral high-speed door with compact side frame design

For small-sized spiral high-speed doors, there is no need for a counterweight or tension spring balancing system. Therefore, a compact side frame of 215 mm can be used instead of the standard 330 mm side frame. This not only saves lateral space and meets installation requirements in limited spaces, but also offers dual advantages in terms of price and after-sales costs.

Spiral, Sectional High-speed Doors

Control system and safety devices

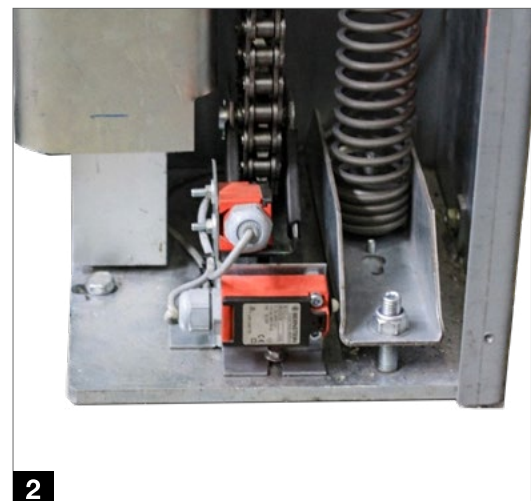
1 Servo control

- Relief of the entire mechanical door elements with soft start and soft stop
- Virtually wear-free and quiet door travel
- Considerable increase in service life for your door
- Optimisation of operating processes and temperature levels between the cold store and other temperature areas thanks to high opening and closing speed up to 2.5 m/s



2 Counter weight system

- Operator support via counter weight
- Use of extremely durable flat belts, which are also used in the elevator industry
- Each maintenance cycle 250,000 cycles guaranteed (fitted correctly and maintain regularly)
- Low maintenance costs, as no springs are used



3 Non-contact safety

- Safety light grilles integrated into the side assemblies monitor the closing zone of the door leaf up to a height of 2500 mm
- Exceptionally easy to fit and service



Spiral, Sectional High-speed Doors

Technical overview

Door type	HS 7030 PU 42	HS 5015 PU N/H 42	HS 6015 PU V 42
Track application	spiral door	sectional doors N/H	sectional door V
Door section			
Structure	Double-skinned steel insulated panel		
Thickness (mm)	42	42	42
Section height (mm)	250	250	250
External/internal surface	Micrograin/Stucco	Micrograin/Stucco	Micrograin/Stucco
Standard color	RAL 9006	RAL 9006	RAL 9006
Glazing with Duratec double pane	○	○	○
Use	Internal/external	Internal/external	Internal/external
Size range			
Max. width LDB (mm)	7000	5000	6500
Max. height LDH (mm)	6500	6500	6500
Min. head room (mm)	885	480 / 750	LDH + 585
Speed			
Max. opening speed m/s	1.2 – 2.5	1.5 – 2.5	1.5 – 2.5
Closing speed approx. m/s	0.5	0.5	0.5
Control			
Standard	AS 500 SV	AS 500 SV	AS 500 SV
Safety			
Safety light grille IP 67	●	●	●
Thermal insulation U¹⁾ in W/(m²·K) (EN 13241-1, ISO 12567-1)	1.95	1.95	1.95
Resistance to wind load (EN 12424)			
door width ≤ 5000 mm	Class 5	Class 5	Class 5
5000 mm < door width ≤ 7000 mm	Class 4	–	Class 4
Resistance to water penetration (EN 12425)	Class 2	Class 2	Class 2
Air permeability (EN 12426)	Class 1	Class 1	Class 1
Acoustic insulation²⁾ dB (EN 717-1, EN ISO 10140-1, EN ISO 10140-2)	26	26	26
RC2 security in European Standard (acc. to DIN / TS 18194)	●	–	–
Counterbalance system			
Tension spring	●	● (N track)	–
Counterweight	■	● (H track)	●
No counterbalance	□	–	–
Emergency opening			
Emergency hand chain	●	●	●

● = Standard

○ = Optional

■ = Standard for door width up to 5000 mm and door height up to 5000 mm

□ = Standard for door width up to 3000 mm and door height up to 3000 mm

LDH = clear passage height

All colors based on the RAL

¹⁾ Test door size 4000 × 4000 mm, without glazing, with ThermoFrame

²⁾ Without glazing





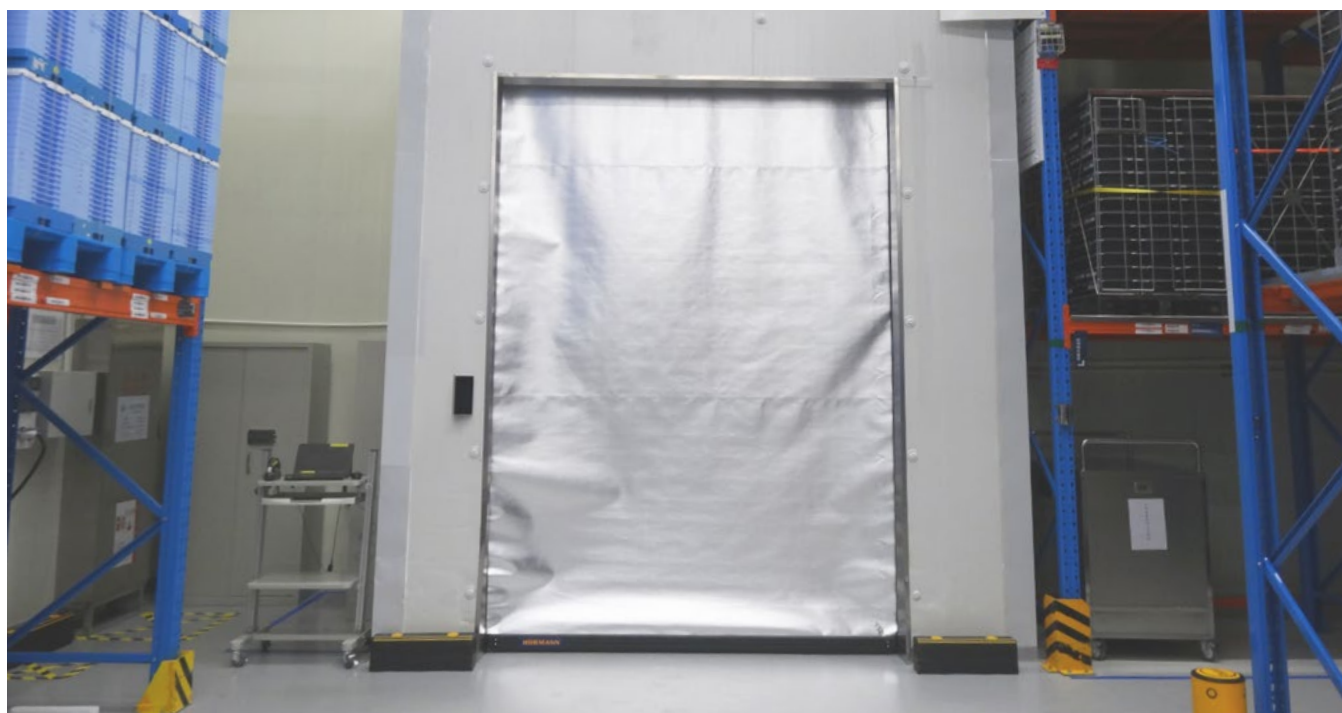
High-speed door for deep freeze area and cold store

The sectional high-speed door for deep freeze area Iso Speed Cold 100 and the flexible high-speed door for cold storage V 4015 Cold are ideal solutions for the cold storage and cold chain logistics applications, which can significantly save energy for the cold storage area. The high opening speed up to 2.0 m/s ensures the rapid passage of transport vehicles, maximizing the continuity of the cold chain.

→ For more detailed information, please refer to page 20

Top/bottom left: sectional cold store door Iso Speed Cold 100

Bottom right: flexible cold store door V4015 Cold



Deep freeze door ISO Speed Cold 100

Thermal insulation design for door section and side guide

ISO Speed Cold 100

Door section with thermal breaks

The double-skinned steel insulation door section for ISO Speed Cold 100 features thermal insulation design and thickness 100 mm, achieving an excellent insulation performance (U-value) of 0.57 W/(m²·K). Available for H and V tracks, which can easily meet the installation conditions of different cold storages. Both sides of door section are characterized by the stucco-textured surface, RAL9002 colour as standard, additionally available for over 200 other RAL colours.

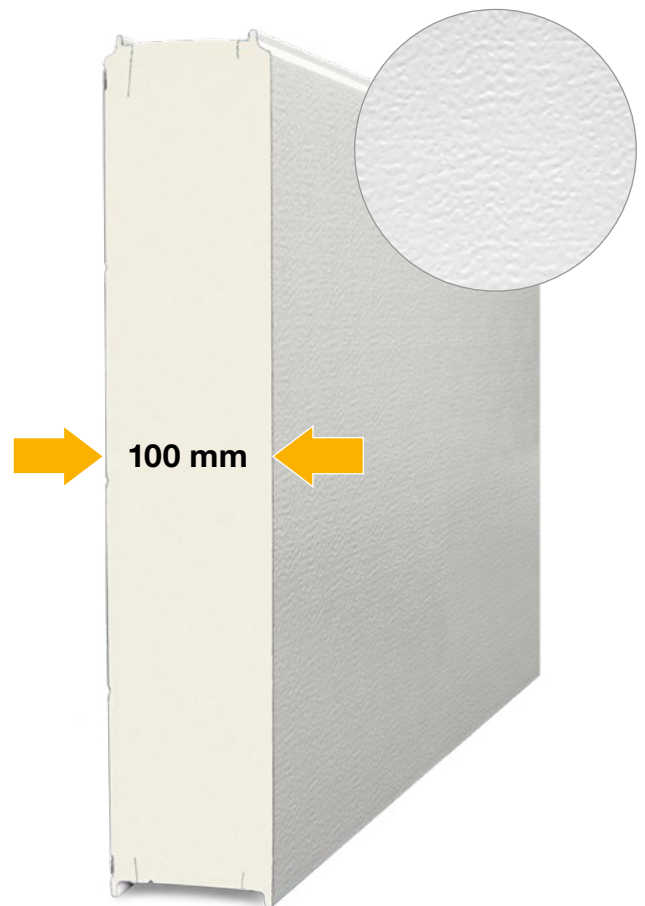
Elaborately designed side guides

The side guides are made of galvanized steel and equipped with a standard counterweight balance system, which assists the door operator in door opening and closing. The counterweight system is driven by extremely durable flat belts, **1** which has the same safety level as the traction system of elevator.

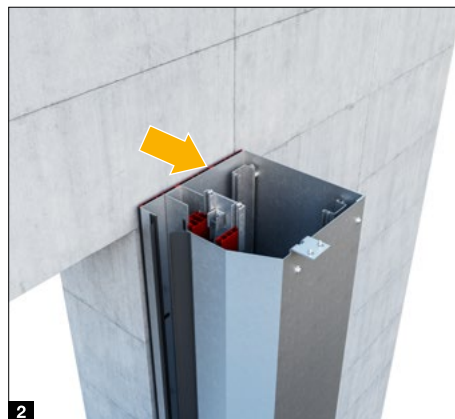
The standard ThermoFrame **2** is designed to separate the side guides from the building structure on three sides. The insulated composite sealing strip effectively prevents the formation of thermal bridges between the side guides and the wall, ensuring excellent insulation performance for the entire door.

Non-contact safety

Safety light grilles **3** integrated into the side assemblies monitor the closing zone of the door leaf up to a height of 2500 mm. No additional safety devices needed on the door sections, making it exceptionally easy to fit and service.



AS 500 SV control



Deep freeze door ISO Speed Cold 100

Technical overview

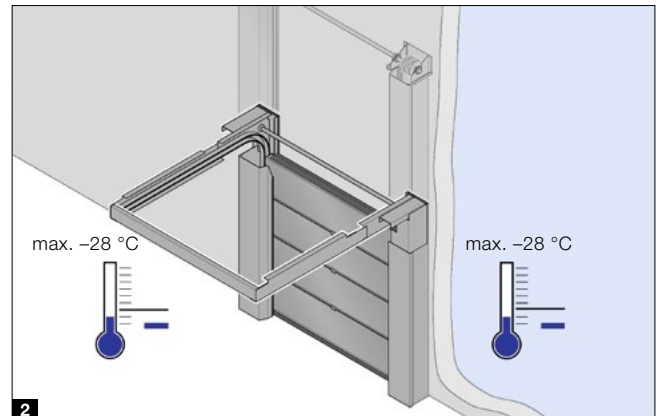
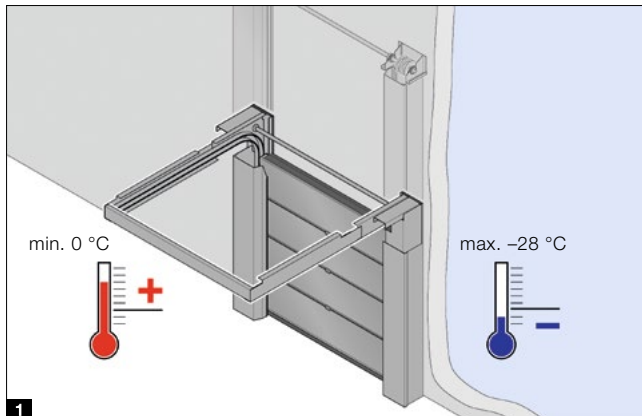
Door type	ISO Speed Cold H 100	ISO Speed Cold V 100
Track application	H track (high-lift)	V track (verticle)
Use	Internal	Internal
Size range		
Max. width LDB (mm)	5000	5000
Max. height LDH (mm)	5000	5000
Min. head room (mm)	750	LDH + 585
Speed		
Max. opening speed m/s	1.5 – 2.0	1.5 – 2.0
Closing speed approx. m/s	0.5	0.5
Control		
Standard	AS 500 SV	AS 500 SV
Optional	AK 500 FUE-1 / AS 500 FUE-1	AK 500 FUE-1 / AS 500 FUE-1
Safety		
Safety light grille IP 67	●	●
Thermal insulation U in W/(m²·K) (EN 13241-1, Appendix B EN 12428)		
2000 x 2000 mm ¹⁾	0.90	0.90
3000 x 3000 mm ¹⁾	0.68	0.68
4000 x 4000 mm ¹⁾	0.57	0.57
5000 x 5000 mm ¹⁾	0.50	0.50
Door section	0.24	0.24
Temperature range ²⁾	1 Fitting side > 0 °C, opposite fitting side up to –28 °C 2 Fitting side 0 °C to –28 °C, opposite fitting side 0 °C to –28 °C	
Resistance to wind load (EN 12424)	Class 5	Class 5
Resistance to water penetration (EN 12425)	Class 3	Class 3
Air permeability (EN 12426)	Class 1	Class 1
Counterbalance system		
Counterweight	●	●

● = Standard ○ = Optional

¹⁾ Test door size

²⁾ temperature deviation on request

³⁾ For door size 5000 x 5000 mm



Deep freeze door ISO Speed Cold 100

Professional heating solutions

As a frequently used equipment in the cold storage, Hörmann ISO Speed Cold 100 provides a wide range of anti-freeze heating solutions. You can choose the appropriate heating solution based on your individual usage scenarios and track application.

1 Heating system type A

- Heated side elements and bottom plate
- Heated sealing frame
- For H track doors

2 Heating system type B

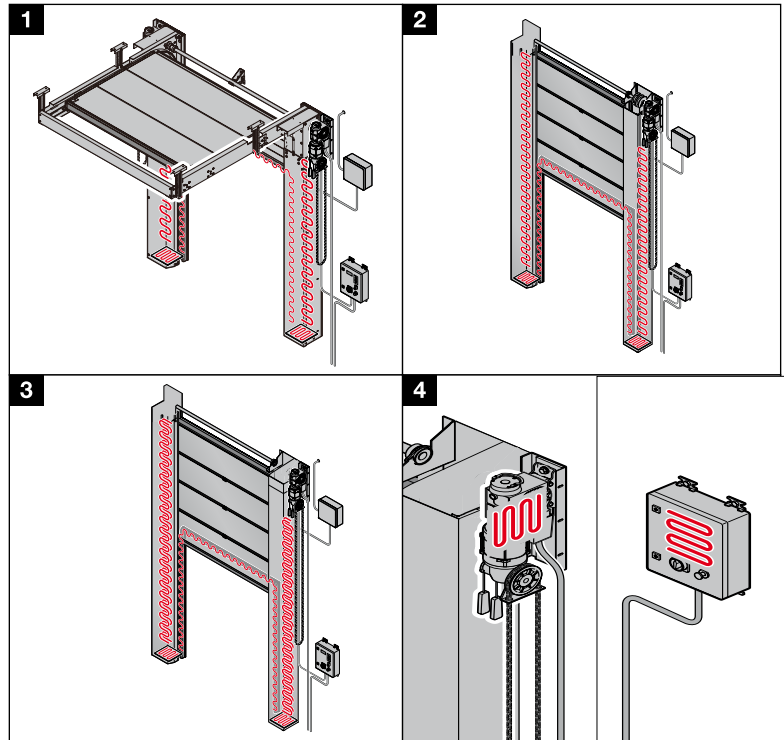
- Heated side elements and bottom plate
- Heated sealing frame
- For V track doors

3 Heating system type C

- Heated side elements and bottom plate (double heating)
- Heated sealing frame
- Top cover on the side guides
- For V track doors

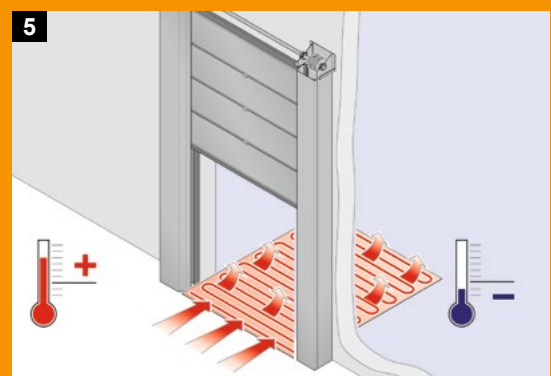
4 Heating for operator and control

- Heated operator
- Heated control box
- For operators and controls fitted in the area temperature below 0



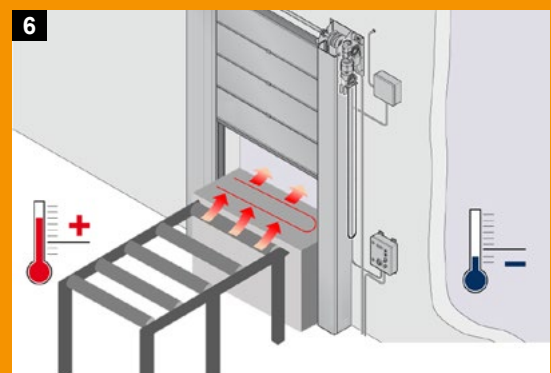
Regular floor heating system 5

- Required in the area of the door closing zone.
- For doors fitted on the ground.
- Explosion proof heating cables have to be embedded in the concrete during construction stage.
- Covering of the entire opening area of the door and the frame depth, as well as the area extend into cold store, length 2000 mm in total , to effectively prevent the door leaf from freezing.
- Effectively avoid the risk of accidental crash to the door panels due to forklift wheel slipping.



Special floor heating system for conveyors 6

- Required in the area of the door closing zone.
- For doors fitted over the platform between conveyors.
- Explosion proof heating cables embedded in the channel of platform and covered by stainless steel plate.
- Heating the area of door leaf and frame depth, to effectively prevent the door leaf from freezing.



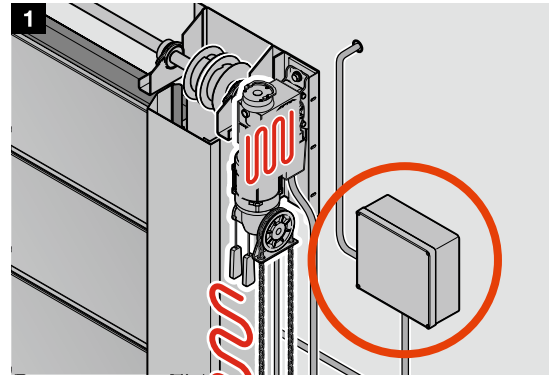
Deep freeze door on-site solution recommendation

For safe and reliable operation

Cold storage is a complex environment with different temperature / humidity and frequent logistics. It is very important to choose professional deep freeze doors with high speed and good thermal insulation, to accelerate the logistics efficiency, improve control of temperature and humidity, and reduce the risk of fog and ice. Besides, corresponding on-site facilities such as ground heating system, air curtain machine and dehumidifier are also highly recommended. This will significantly help to improve logistics speed and working environment and highly reduce daily costs by energy saving.

1 Connecting lead

- A second electrical cable to the door is required for heating supply in the frame side bars
- When pressing the main switch on the door, the heating remains activated and prevents freezing

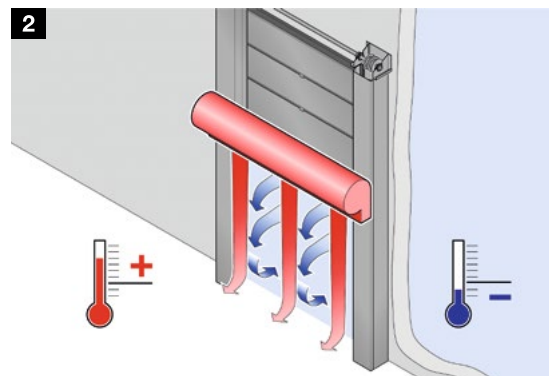


2 Air curtains

- For minimisation of the temperature increase in the cold store area
- Installation on the warmer side to effectively reduce the flow of air from the warm side to the cold side of the opening

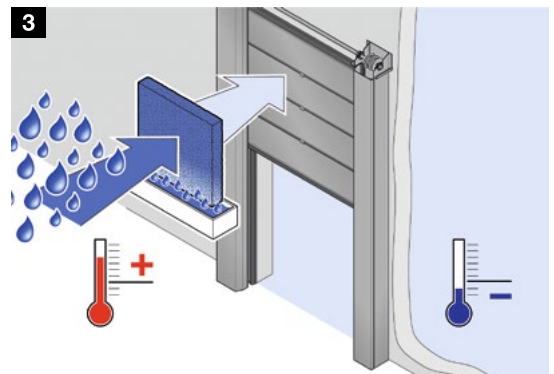
TIP:

Install a cold air curtain, as it is more efficient than a hot air curtain.



3 Air dehumidifier

- Fitting on the warmer side
- For effective reduction of humidity in case of high temperature differences and high humidity to minimise ice formation in the cold store area



Note:

Above equipments are not in the optional package from Hörmann.

Flexible cold store door V4015 Cold

Technical overview for door and control

Flexible high-speed door V 4015 Cold

V4015 Cold is a brand new solution for the cold chain industry. The door curtain is made of HeatReflect curtain, **1** a new German-imported composite insulation material with a high thermal radiation reflection rate of up to 96%. The door curtain is lightweight, silent, and fast, yet its excellent insulation performance (2.4 W/(m²K)) can rival that of a 20 mm ordinary multi-layer filling insulation door curtain.

Standard with SoftEdge bottom profile. In the event of a crash impact, the SoftEdge comes out of the side guides without causing any damage to persons and goods. Standard with limit protection switch, which stops the operator, when the door curtain comes out of the side guides, to prevent the curtain from tearing. The door can automatically and quickly reset without waiting or requiring maintenance.

Configuration Features

- Germany imported HeatReflect insulation curtain
- Standard for integrated non-contact safety light grille
- Standard for anti-crash SoftEdge bottom profile and automatic reset function **2**
- Compact aluminum side guide results in a min. side room of only 145 mm
- Heating devices, including side guide heating, shaft cover heating, operator and control heating are optionally available according to your needs **3**

Size range

Max. width LDB (mm)	3500 mm
Max. height LDH (mm)	5000 mm

Speed

BK 500 SV servo control as standard	
Max. opening speed m/s	1.5 m/s
Closing speed approx. m/s	0.8 m/s

Emergency opening

Emergency crank handle

Curtain

Germany imported HeatReflect insulation curtain	
Color	silver
Thickness	1.0 mm
Thermal insulation	2.4 W/(m²K)

Side guides

Aluminium side guides	125×110 mm (W×D)
Min. side room	145 mm

Safety

Safety light grille as standard

Air permeability (EN 12426)

Air permeability	EN Class 1
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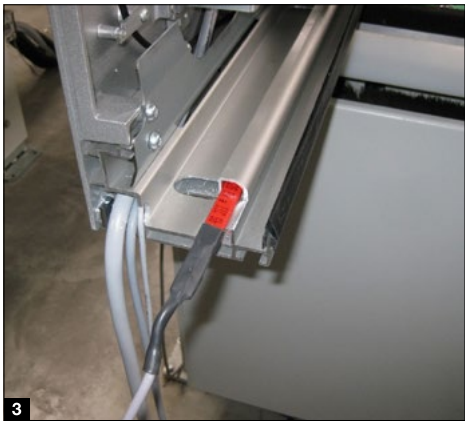
BK 500 SV control



1



2



3

Flexible cold store door V4015 Cold

Professional heating solutions

A normal operation of cold storage doors is closely related to factors such as cold storage temperature, humidity, installation side, installation method, and a suitable heating system

Coldroom	Anteroom	Relative humidity of the anteroom			
		Low	Middle	High	Ultra
		25%	50%	75%	100%
-23°C (Deep freeze warehouse)	-10°C				
	+3°C				
	+20°C				
-18°C (Deep freeze warehouse)	-10°C				
	+3°C				
	+20°C				
0°C (Cold warehouse)	+3°C				
	+10°C				
	+20°C				
+5°C (Cold warehouse)	+10°C				
	+20°C				



Blue area

Single door solution applied

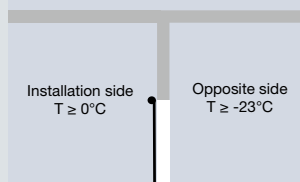
Orange area

A double-door solution is needed, with an ISO speed cold 100 deep freeze door installed on the low-temperature side for insulation at night, and a V4015 Cold installed on the other side for frequent opening and closing during working hours. It is recommended to choose the optional heating system and install an air curtain machine above the opening.

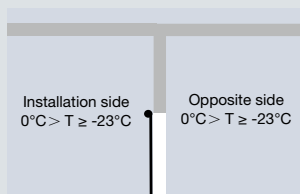
Installation environment temperature requirements



Fitting side: above 0 °C
Opposite fitting side: Min. -23 °C



Fitting side: -23 °C ~ 0 °C
Opposite fitting side: -23 °C ~ 0 °C



Tip

Anti-freezing solutions and heating system

- 1 If the temperature on either the installation or non-installation side is below 0°C, it is necessary to choose a floor heating and door frame heating system.
- 2 Under the environmental conditions in the orange area, frost may appear on the door curtain, which may affect the normal operation of the door curtain.

- An air curtain machine can be used to defrost the door curtain.

- If a double-door solution is adopted, during non-working hours at night, the ISO speed cold 100 on the inside can be closed, allowing the V4015 Cold to defrost naturally on the high-temperature side. Alternatively, a door curtain heating device can be selected to roll up the door curtain and heat it for defrosting inside the door cover.

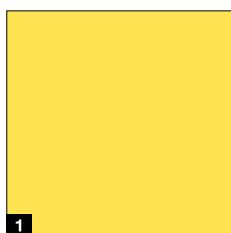
Flexible high-speed doors

Hörmann flexible high-speed doors are standard for frequency converter/servo control, safety light grille and SoftEdge bottom profile, ensuring safe and rapid opening and closing of the door. It features in low noise, low maintenance cost and long service life, easy for installation and maintenance.

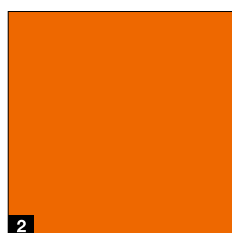




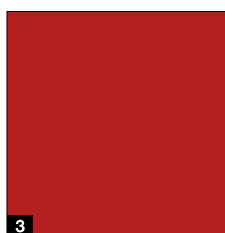
The curtain of Hörmann flexible high-speed door is made of textile-reinforced UPVC, divided into several sections by aluminium profiles or spring steel wind lock with lateral twin rolls. Available for 900 mm vision panel made of transparent UPVC, without vision panel or with ventilation mesh as options. Available for following 5 standard colors:



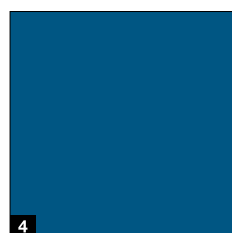
1 RAL 1018 Zinc yellow



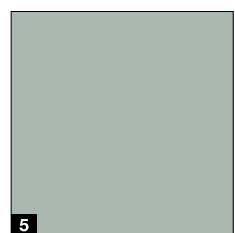
2 RAL 2004 Pure orange



3 RAL 3002 Carmine red



4 RAL 5010 Gentian blue



5 RAL 7038 Agate gray

Internal flexible high-speed door

Thanks to the high opening and closing speeds, heat losses as well as draughts at the workplace are noticeably reduced, resulting in less work absences due to illness. Vision fields or fully transparent curtains make for a bright and friendly working environment and provide visibility for safe transport routes.

→ For more detailed information, please refer to page 30



Top: interior flexible high-speed door V5015 SEL

Bottom left: interior flexible high-speed door V4010 SEC/SEL

Bottom right: interior flexible high-speed door V5015 SEL





Internal flexible high-speed door

Internal door with SoftEdge and anti-crash function

V 4010 SEC/SEL

The affordable high-speed door with SoftEdge and radio crash switch is a real winner in terms of price. The internal door is ideal for use in internal areas and equipped with an AK E control. The self-monitoring safety line curtain in the closing edge zone provides the optimum safety equipment for the door.

Standard with anti-crash SoftEdge bottom part with automatic re-feed to avoid stoppage times after a collision. **3**

2-parts side guides design enables the door with fast and low-cost maintenance and repair.

Configuration Features

- SEC is standard for photocell on the side guides
- SEL is standard for integrated non-contact safety light grille **5**
- Standard for stable aluminium wind bar **1**
- Vision panel as standard, ventilation mesh **2** and anti-insect curtain **6** are optionally available.



AK E control

V 5015 SEL

The interior high-speed door V5015 SEL with SoftEdge bottom profile and standard servo control allows safe and gentle continual operation. The curtain stability is achieved through proven aluminum profiles and has a horizontally stable anti-crash SoftEdge bottom profile at the lower edge. **3**

In case of repair, the inexpensive curtain stabilization allows the curtain segments to be replaced quickly and easily.

Configuration Features

- SEL is standard for integrated non-contact safety light grille **5**
- Standard for stable aluminium wind bar **1**
- Standard for vision panel, optionally available for ventilation mesh **2** and anti-insect curtain **6**.



BK 500 SV control

SoftEdge bottom profile design **3**

The innovative SoftEdge door technology prevents damage and resulting downtime of the door system. Extensive repairs, such as those with rigid bottom profiles, will not be necessary. SoftEdge ensures trouble-free operation and production processes.

Radio crash switch **4**

The radio crash switch for SEL door is concealed in the SoftEdge bottom profile. If the bottom profile is pushed out of the side guides by a crash, the radio crash switch transmits a signal to the control and the door is stopped immediately. fully complies with the safety requirement of DIN EN 13241-1.



1



2



3

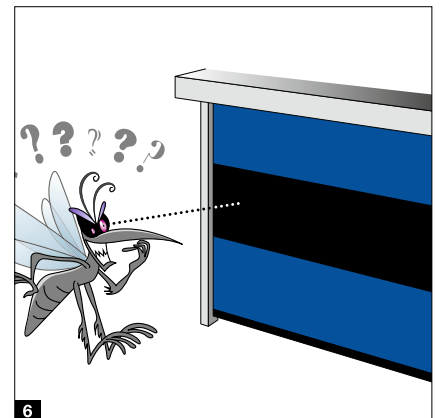
Internal flexible high-speed door

Technical overview

Door type	V 4010 SEC/SEL	V 5015 SEL
Use	Internal	Internal
Size range		
Max. width LDB (mm)	4000	5000
Max. height LDH (mm)	4000	5000
Speed		
Max. opening speed (m/s)	1.0	1.5
Closing speed approx (m/s)	1.0	0.8
Control		
Standard	AKE	BK 500 SV
Optional	-	BK 150 FUE-1
Temperature range	+5 °C to +40 °C	+5 °C to +40 °C
Curtain	PVC	PVC
Fabric thickness (mm)	1.2	1.2
Vision panel thickness (mm)	2.0	2.0
Curtain colors		
Standard colors	●	●
Wind bar		
Aluminum wind bar	●	●
Bottom profile		
SoftEdge bottom profile	●	●
Aluminum bottom profile for wind-load resistance class 1	-	○
Safety		
Automatic reset of curtain	●	●
SKS photocell	-	-
Photocell on the side guide	● (SEC)	-
Safety light grille IP 67 (protection height up to 1800 mm)	● (SEL)	●
Emergency opening		
Emergency crank handle	●	●
Emergency hand chain	-	-

● = Standard ○ = Optional

All colors based on the RAL





Internal/external flexible high-speed door

The flexible curtain with professional wind-resistant design can easily withstand the impact of severe convective weather. High opening and closing speed minimize the air convection and energy loss of the warehouse.

→ For more detailed information, please refer to page 34

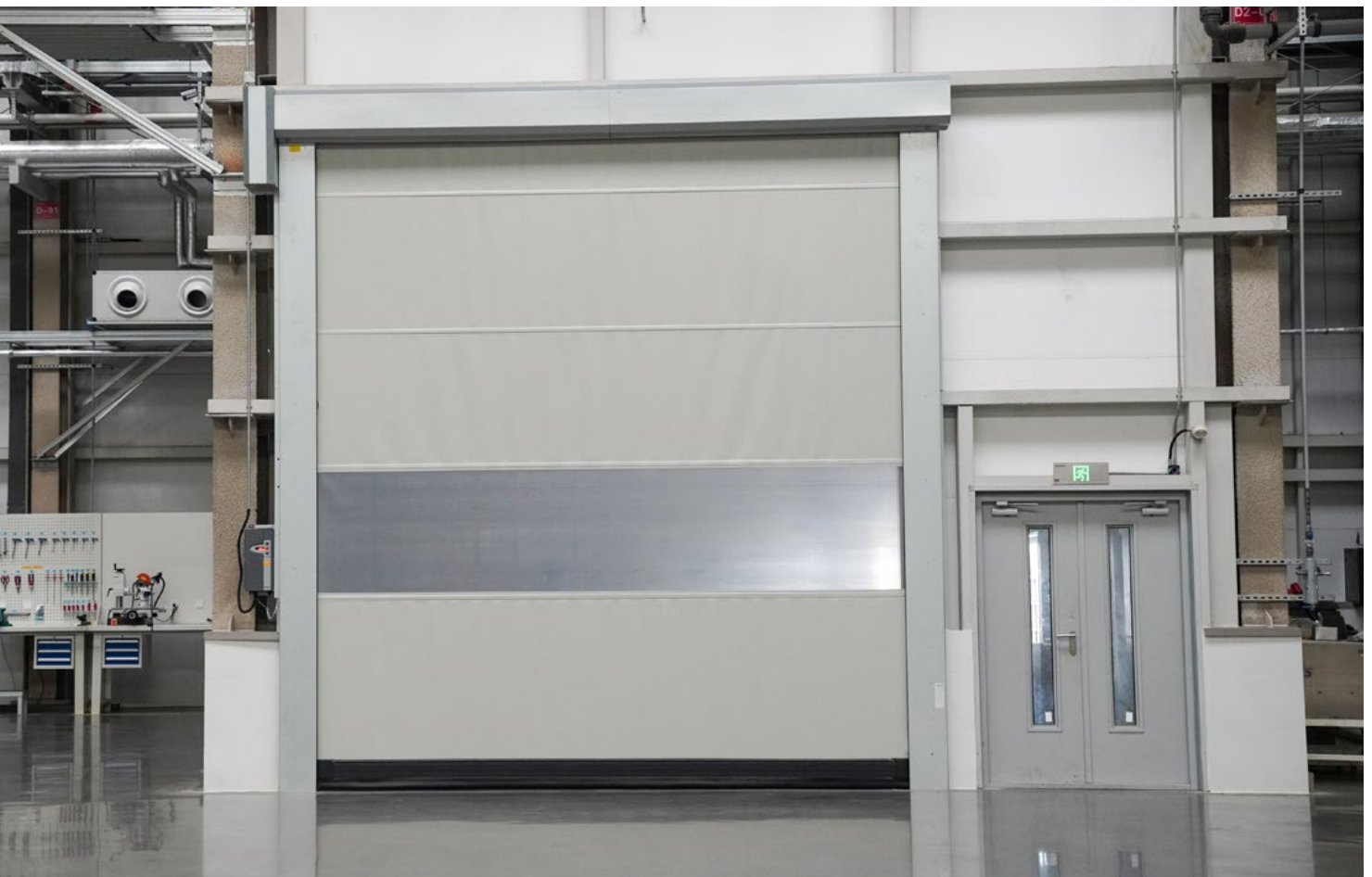




Top left: flexible high-speed door V6030 AEL

Top right: flexible high-speed door V6020 TRL

Bottom: flexible high-speed door V6030 SEL



Internal/external flexible high-speed door

Crash-protection and excellent wind load resistnace

V 6030 SEL

External doors are driven into more frequently than internal doors, e.g., by forklifts. This is where crash protection pays off because it significantly reduces downtimes and repair costs. The high speed at which the door opens and closes also saves on energy costs. The V 6030 SEL can be optionally obtained with aluminum bottom profile.

Configuration Features

- Stable spring steel wind lock design. **1**
- Curtain tension system ensure more stable operation **2**
- Standard for vision panel, optionally available for ventilation mesh and anti-insect curtain.



BK 500 SV control

V 6020 TRL

The 4-mm-thick transparent curtain enables more light into the room, contributing to a pleasantly bright workplace. The fully transparent curtain creates an improved view and enables you to see what's coming at you, especially suitable for the galleries with heavy traffic, reducing the possibility of accidental collision. Transport routes become safer through unimpeded visual contact.

Configuration Features

- Fully transparent curtain for better view and lighting **4**
- Curtain tension system ensure more stable operation **5**



BK 150 FUE-1 control



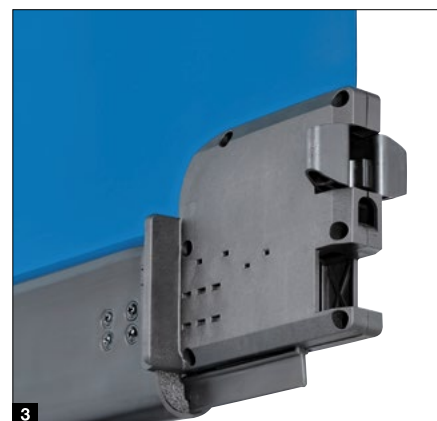
AK 500 FUE-1 control

Spring steel wind lock **1**

The lateral twin rollers ensure quiet door travel and allow reliable stops. Even wind loads of up to 100 km/h do not pose problems thanks to the spring steel wind protectors.

Curtain tension system **2**

The curtain tension system integrated in the side guides tensions the door curtain for reliable door travel.



Internal/external flexible high-speed door

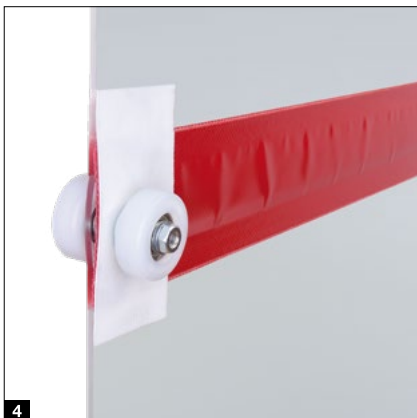
Technical overview

Door type	V 6030 SEL	V 6020 TRL
Use	Internal/external	Internal/external
Size range		
Max. width LDB (mm)	5000	6000
Max. height LDH (mm)	6000	7000
Speed		
Max. opening speed (m/s)	2.0	2.0
Closing speed approx (m/s)	0.8	0.5
Control		
Standard	BK 500 SV	BK 150 FUE-1 ¹⁾ , AK 500 FUE-1 ²⁾
Optional	BK 150 FUE-1 / AK 500 FUE-1	-
Safety		
Safety light grille IP 67	●	●
Wind load resistance (EN 12424)		
Door width ≤ 4000 mm	Class 2	Class 2
Door width > 4000 mm ≤ 5000 mm	Class 2	Class 2
Door width > 5000 mm		Class 2
Temperature range	+5 °C to +40 °C	+5 °C to +40 °C
Curtain	PVC	PVC
Fabric thickness (mm)	1.2	-
Vision panel thickness (mm)	2.0	4.0
Transparent curatin thickness (mm)		4.0
Curtain colors		
Standard colors	●	●
Wind bar		
Spring steel wind lock with lateral twin rollers and tensioning system	●	●
Bottom profile		
SoftEdge bottom profile	●	-
Aluminum bottom profile	-	●
Emergency opening		
Emergency crank handle	●	●
Emergency hand chain	○	○

● = Standard ○ = Optional

¹⁾ Up to 95 kg

²⁾ Exceed 95 kg



Interior flexible high-speed door for special applications

The diverse needs of modern industry require us to provide more personalized door solutions. Leveraging its professional expertise, Hörmann offers customized solutions for workshops with special requirements such as air tightness, cleanliness, and machine protection.

→ For more detailed information, please refer to page 38



Top: flexible high-speed door V4015 Airtight

Bottom left: machine protection door V 5030 MSL

Bottom right: cleanroom door V 3015 Clean



Flexible high-speed door for special applications

For various special industrial scenarios

V 5030 MSL

The requirements for work safety and production processes are constantly increasing. Short downtimes, easy and quick access for operation and maintenance of the production machines and of course the safety of the employees are all important for smooth production. The V 5030 MSL with fully transparent 4-mm-thick curtain was developed specifically for this application. Optionally, the curtain with coloured fabric material with vision field is available.

The flexible high-speed door with machine protection function protects operating personnel thanks to a monitored complete partitioning of the machine and provides fast access when needed. Safety sensors in the aluminium bottom profile and in the frame reliably transmit the door position to the system control (performance level d). The door can thus open only when the machine is idle and the machine can be operated only when the door is closed.

Configuration Features

- Reliable protection thanks to the 4 mm transparent curtain, which makes it easy to observe the running status of the machine **1**
- Interlock with machine: the door can be opened only when the machine is idle and the machine can be operated only when the door is closed. **2**



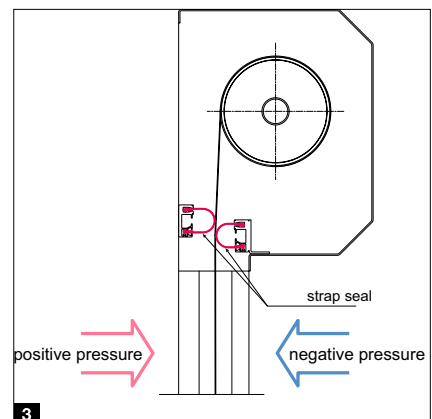
BK 150 FUE-1 control



AK 500 FUE-1 control



BK 500 SV control



V 3015 Clean

Air purification in clean rooms can result in a pressure difference of up to 50 Pa. The fully transparent curtain of this clean room door is tightly integrated in the special side guides. This minimizes air loss (leakage). This enables an optimum design for ventilation systems. A stainless steel cover on the shaft and operator, and welded-on spring steel stabilisation are further characteristics of this door.

V 4015 Airtight

Passed the cleanliness ISO 6 level certification test according to European standard DIN EN ISO 146644*. When the door is installed on the negative pressure side, the airtightness level is European standard level 1. When the door is installed on the positive pressure side, the airtightness level is European standard level 2.

The elegant, narrow aluminium side elements require a low side room up to 125 mm. The door curtain is well sealed thanks to the very small gap dimension and lip seals. The standard light grille and servo control make it safe and economical. Standard with the galvanized steel shaft cover provide the protection for operator and wiring cables.

Configuration Features

- Stable spring steel wind lock and vision panel as standard
- Airtight design for cleanliness ISO 6 level according to DIN EN ISO 146644, withstand air pressure difference up to 50 Pa. **3**

Flexible high-speed door for special applications

Technical overview

Door type	V 5030 MSL	V4015 Airtight	V 3015 Clean
Use	Internal	Internal	Internal
Size range			
Max. width LDB (mm)	4000	5000	2500
Max. height LDH (mm)	4000	5000	3000
Speed			
Max. opening speed (m/s)	1.5	1.5	1.5
Closing speed approx (m/s)	0.8	0.8	0.5
Control			
Standard	BK 150 FUE-1 ¹⁾ , AK 500 FUE-1 ²⁾	BK 500 SV	BK 500 SV
Safety			
Safety light grille IP 67	●	●	–
Closing edge safety device with energy chain	–	–	●
Wind load resistance (EN 12424)			
Door width ≤ 4000 mm	Class 1	–	–
Temperature range	+5 °C to +40 °C	+5 °C to +40 °C	+5 °C to +40 °C
Curtain	PVC	PVC	PVC
Fabric thickness (mm)	–	1.2	–
Vision panel thickness (mm)	–	2.0	–
Transparent curatin thickness (mm)	4.0	–	4.0
Curtain colors			
Standard colors	● ³⁾	●	●
Wind bar			
Spring steel wind lock	●	●	●
Bottom profile			
Aluminum bottom profile	●	●	●
Emergency opening			
Emergency crank handle	●	●	●

● = Standard ○ = Optional

¹⁾ Up to 95 kg

²⁾ Exceed 95 kg



Transparent spiral high-speed door with innovative technology and opening speed

The new generation of external and internal doors opens at a record speed of over 4.0 m/s. The very high, impact-resistant polycarbonate sections with a transparency of 90% of the door leaf surface are very durable and easily withstand the demands of a harsh industrial environment.





霍曼特别提供!



Opening speed
over 4.0 m/s

霍曼特别提供!



Approx. 90%
transparent door
leaf surface



Service-friendly

DOOR OPENING AT RECORD SPEED. The HS 5040 TurboLux S door version opens faster than 4.0 m/s. This minimises the waiting times of transport vehicles in front of the door, so that forklift trucks, for example, can drive through the door without stopping.

MAXIMUM TRANSPARENCY. The particularly high door sections with a height of 550 mm offer generous visibility without vertical rails with a transparency of 90% of the door leaf surface. This makes for a bright and friendly working environment and safe transport routes.

LESS MAINTENANCE WORK REQUIRED. The HS 5040 TurboLux door version with counterbalance implemented by counter weights convinces with its low wear, since there is no need for replacing any springs every 100000 cycles. This makes the HS 5040 TurboLux virtually wear-free and greatly reduces maintenance costs.

→ For more detailed information, please refer to page 42

Turbo transparent spiral high-speed door

HS 5040 TurboLux

Ultra fast opening speed

With an opening speed of up to 4.0 m/s, Hörmann offers the fastest spiral door in the world. The fast opening minimizes operating costs by reducing waiting times in front of the door and speeding up logistics processes.

Solid transparent curtain

This new product is designed with a transparency of approximately 90% of the door leaf. The impact-resistant polycarbonate sections are very robust and withstand the demands of rough industrial environments.

霍曼特别提供!

90% transparency

霍曼特别提供!

HS 5040 TurboLux S opening speed up to 4.0 m/s

霍曼特别提供!

HS 5040 TurboLux standard for counterweight system

Advanced operator and control

Thanks to the internally positioned and particularly strong drive, as well as the very narrow side sections, the new high-speed door from Hörmann only requires 275 mm sideroom for installation. The new operator used guarantees a service life of over 1,000,000 cycles lifetime.

Hörmann uses both counterweights and springs for weight balancing. standard safety light grilles integrated in the side guides monitoring the safety of closing zone up to 2500 mm height, fully meet the requirement of DIN EN 13241-1.

Configuration Features

- Fully transparent curtain design features portability, transparency, and impact resistance
- Improving traffic efficiency thanks to the ultra-high door opening speed and quiet and stable operation



BK 150 FUE-1 control



AK 500 FUE-1 control

Fully transparent and impact-resistant curtain and door cover

The particularly high door sections with a height of 550 mm offer generous visibility without vertical rails with a **1** transparency of 90% of the door leaf surface. An fully transparent polycarbonate door cover is also optionally **2** available, which not only protects the internal drive mechanism of the spiral track from contamination but also facilitates installation and maintenance.

Ingenious concealed operator and integrated light grille

The powerful door operator concealed within the spiral track, **3** without occupying any side room for installation. The safety light grille up to 2500 mm high intergrade in the side guides **4** reliably monitors the passage safety of the closing zone.



Turbo transparent spiral high-speed door

Technical overview

Door type	HS 5040 TurboLux S	HS 5040 TurboLux
Door section		
Structure	Impact-resistant polycarbonate sections connected by aluminium profile	Impact-resistant polycarbonate sections connected by aluminium profile
Thickness (mm)	1.5	1.5
Section height (mm)	550	550
Use	Internal/external	Internal/external
Size range		
Max. width LDB (mm)	5000	5000
Max. height LDH (mm)	5000	5000
Min. head room (mm)	1200	1200
Control		
Standard	BK 150 FUE-1	AK 150 FUE-1
Safety		
Safety light grille IP 67	●	●
Speed		
Max. opening speed approx. m/s	>4.0	3.5
Max. closing speed approx. m/s	1.0	1.0
Resistance to wind load (EN 12424)		
Class 2	●	●
Class 4	○	○
Counterbalance system		
Counterweight	–	●
Tension spring	●	–
Emergency opening/closing		
Emergency hand chain	●	●
Maintenance release	●	–

● = Standard ○ = Optional



Controls and accessories

Reliable guarantee for efficiency and safety



Reliable thanks to innovative equipment

Hörmann high-speed doors are up to 20 times faster than conventional industrial doors, which is why the intelligent operator and control technology is designed for reliable, continuous operation.

Servo/frequency converter control from Hörmann

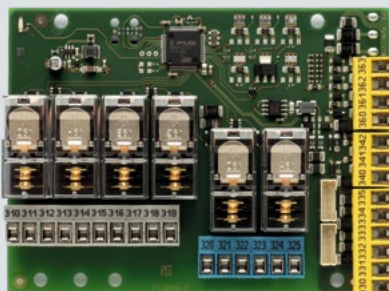
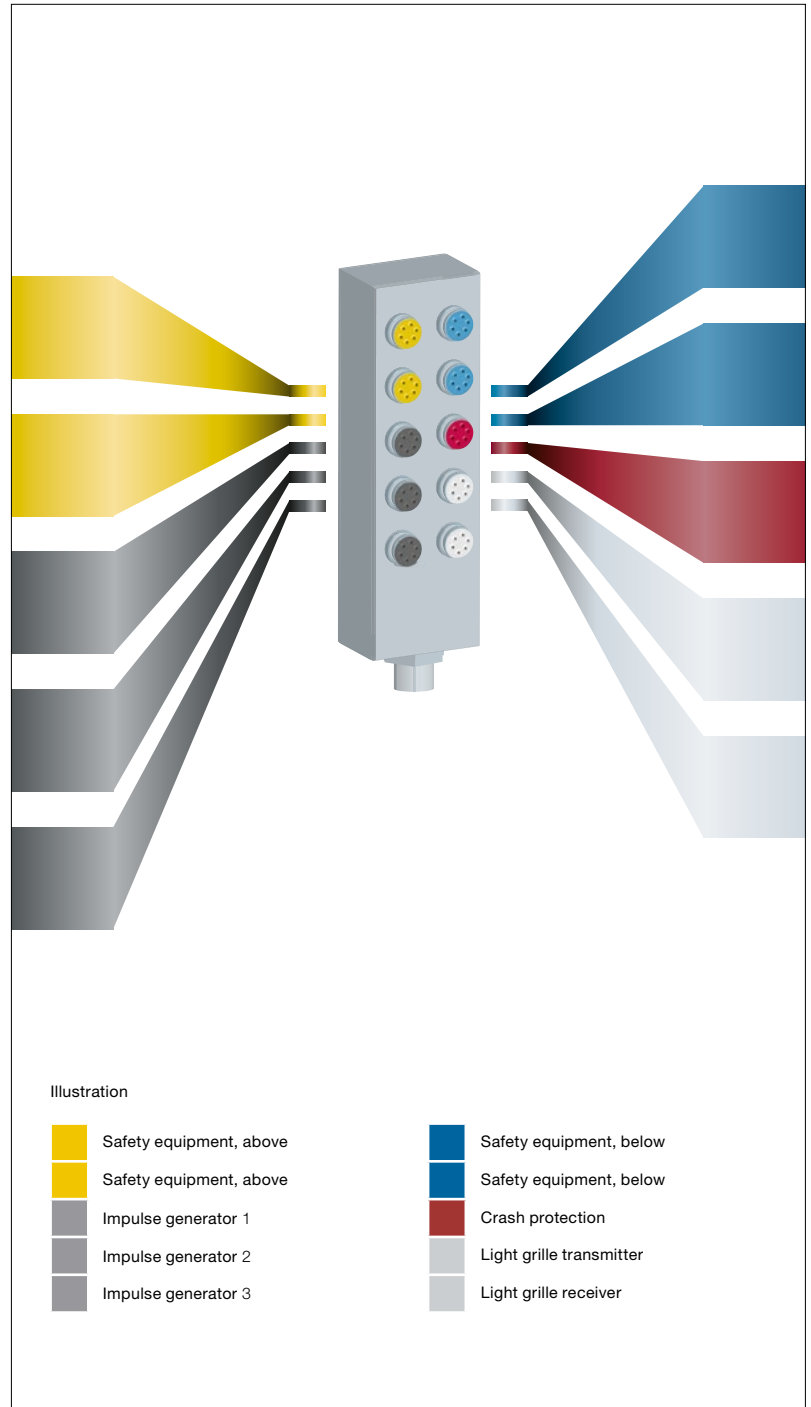
Good-performance servo/frequency converter controls (FU) feature higher speeds and relieve the complete door mechanism which, in turn, extends the service life of the door considerably.

Advantage

- Door cycle counter
- Operation time monitoring
- Automatic timer (adjustable)
- Error display/diagnosis via a 4x7-segment display
- Service operation setting
- Color-coded plug-in control wiring

With the color-coded plug-in wiring design, it is easy to connect various accessories and safety devices, making installation and maintenance faster and simpler.

* Configure according to door type



Multi-functional extension PCB:
for controls BK 150 FUE-1 and AK 500 FUE-1

Expansion card with 6 relays TST-RFUXIO-E
6 additional switch outputs, 6 additional digital inputs

Controls

For all high-speed doors

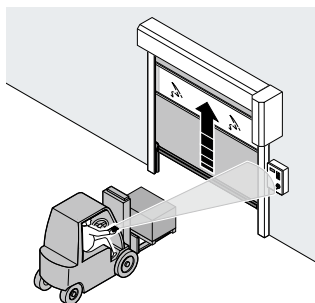


Control	BK 150 FUE-1	AK 500 FUE-1	AKE	BK 500 SV	AS 500 SV
For door types	V 6020 TRL (≤ 95 kg) V 5030 MSL (≤ 95 kg)	V 6020 TRL (from 95 kg) V 5030 MSL (from 95 kg)	V 4010 SEC/SEL	V 5015 SEL V 6030 SEL V 4015 Cold V 4015 Airtight V 3015 Clean	HS 7030 PU 42 HS 5015 PU N 42 HS 5015 PU H 42 HS 6015 PU V 42 ISO Speed Cold H 100 ISO Speed Cold V 100
FU control					
Servo control	●	●		●	●
Non FU control			●		
Housing					
Plastic	●	●	●	●	
Steel	○	○	○		●
Stainless steel	○	○	○		
Operation					
Open-Stop-Close membrane button	●	●	●	●	●
Lockable main switch	○	●	○	●	●
Emergency-OFF button	○	●	●	●	●
Display, 4x, 7 segments	●	●	●	●	●
Function					
Automatic timer	●	●	●	●	●
Adjustable hold-open phase	●	●	●	●	●
Safety light grille	●	●		●	●
Safety photocell			●		
Closing edge safety device	●	●	●		
Stop / re-open	●	●	●	●	●
Extension options					
Traffic light	○	○	○	○	○
Flashing warning light	○	○	○	○	○
Locking	○	○	○	○	○
Intermediate stop	○	○	○	○	○
Extension PCB	○	○	○	○	○
Protection category	IP 65	IP 65	IP 54	IP 54	IP 54
Power supply					
Connecting lead 1~230 V, PE, 16 A, slow-acting	●			●	
Connecting lead 3~400 V, PE, 10 A, slow-acting			●		
Connecting lead 3~400 V, PE, 16 A, slow-acting		●			●
Cable set for plug-in connection between operator and control	6.5 m	6.5 m	6.5 m	6.5 m	6.5 m
Cable for on-site CEE socket	0.8 m, 230 V, blue	0.8 m, 400 V, red	1 m, 400 V, red	0.8 m, 230 V, red	0.8 m, 400 V, red
Housing dimensions (without wall holder)	230 × 460 × 200	230 × 460 × 200	182 × 328 × 94	195 × 320 × 130	200 × 500 × 200

● = Standard ○ = Optional

Accessories

For multiple extended functions



Hand transmitter



**4-button
hand transmitter
HS 4 BS**



**1-button
hand transmitter
HS 1 BS**



**4-button
hand transmitter
HSE 4 BS**



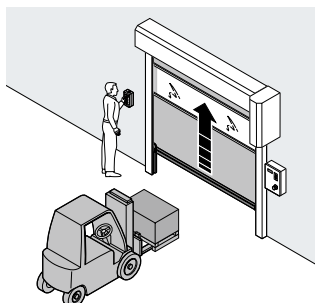
**Single-channel receiver
HER 1 BS**



**Four-channel receiver
HER 4 BS**



**Four-channel receiver
HER 4 868 BS ECO**



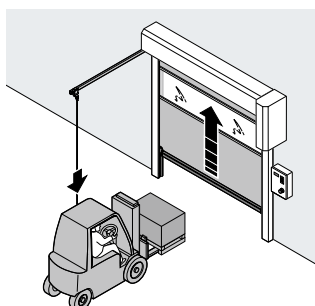
Push button



2-key push button
For separate control of both
operational directions.
Protection category: IP 44
Dimensions:
70 × 118 × 65 mm (W × H × D)



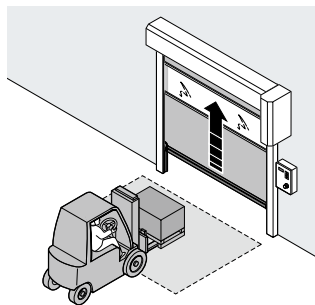
Palm / mushroom button
With large operating surface
Plastic housing, IP 65



Pull switch with plastic pull cord
Horizontal or vertical fitting possible, aluminum die-cast
housing IP 65, cord length 4 m

Accessories

For multiple extended functions



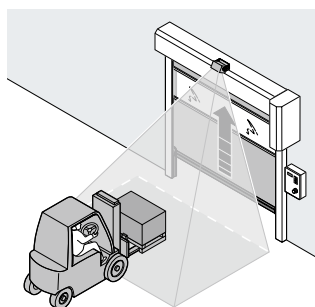
Induction loops



Induction loop detector
2-channel plug-in print
suitable for two separate
induction loops, supplied
with loop cable



Loop cables
50 m each roll,
SIAF cable, section 1.5m²,
brown color



Radar



Radar type E
Radar movement
detection with Micro-
wave detection.

Fast and targeted auto-
matic door opening.
Up to max. 4 m height.
Protection category
IP 54.

Note:
*Only for flexible
high-speed doors.*



Radar type F
Radar movement
detection with Micro-
wave detection.

Fast and targeted auto-
matic door opening.
Up to max. 7 m height.
Protection category
IP 65.

Note:
*Only for flexible
high-speed doors.*



Radar type C
Radar movement and
presence detection with
Microwave and infrared
detection.

Fast and targeted automatic
door opening. Reliable ad-
vance protection.
Up to max. 6 m height. In are-
as with high levels of humidity
and in outside areas, only the
radar function is available.
Protection category IP 65.

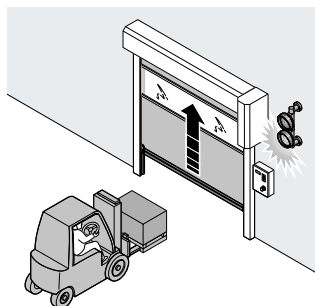
Note:
*For door types except cold
room high-speed doors.*



Radar type W
Radar movement and
presence detection
with laser scanner.

Fast and targeted
automatic door open-
ing. Reliable advance
protection.
Up to max. 6 m height.
It is not susceptible
to adverse weather
conditions.
Protection category
IP 65.

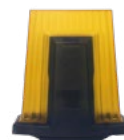
Note:
*For all high-speed
doors!*



Warning light



Red/green warning lights
In steel housing, with fitting bracket,
IP 65



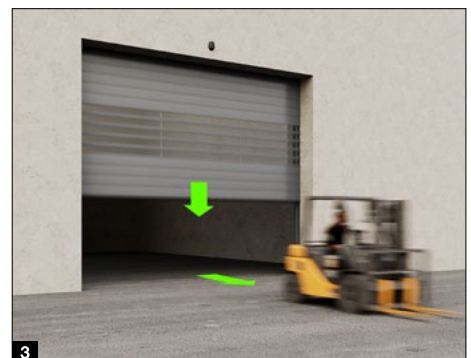
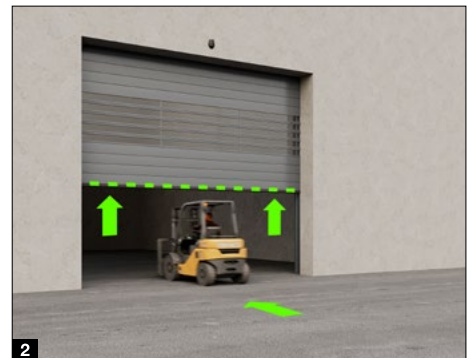
Yellow warning light
in plastic housing, IP 54



Radar Type W (3D laser scanner Scanprotect)

Thanks to laser technology, the high-end motion detector and monitoring system guarantees operational safety, even with different floor coverings. The laser field acts as a reliable door monitor. It detects how fast and in which direction the object is travelling, ensuring optimum opening and closing reaction times. This minimises a door's hold time and saves energy.

- Especially suited for outdoor areas as it is not susceptible to different weather conditions **1**
- Reliable advance protection, as well as fast and targeted automatic door opening
- **NEW.** Energy savings thanks to automatic opening height adjustment depending on the detected vehicle height in the detection zone (only in conjunction with FUE-1 control) **2**
- Minimises the hold time of the door to save energy **3**
- Convenient setting options via the operator control
- Easy to hide objects permanently or temporarily in the detection range **4**
- Deactivation of cross-traffic and pedestrian traffic **5**
- Virtual pull switch enables door opening by people or vehicles standing at a defined position



Hörmann Product Range
Everything from a single source



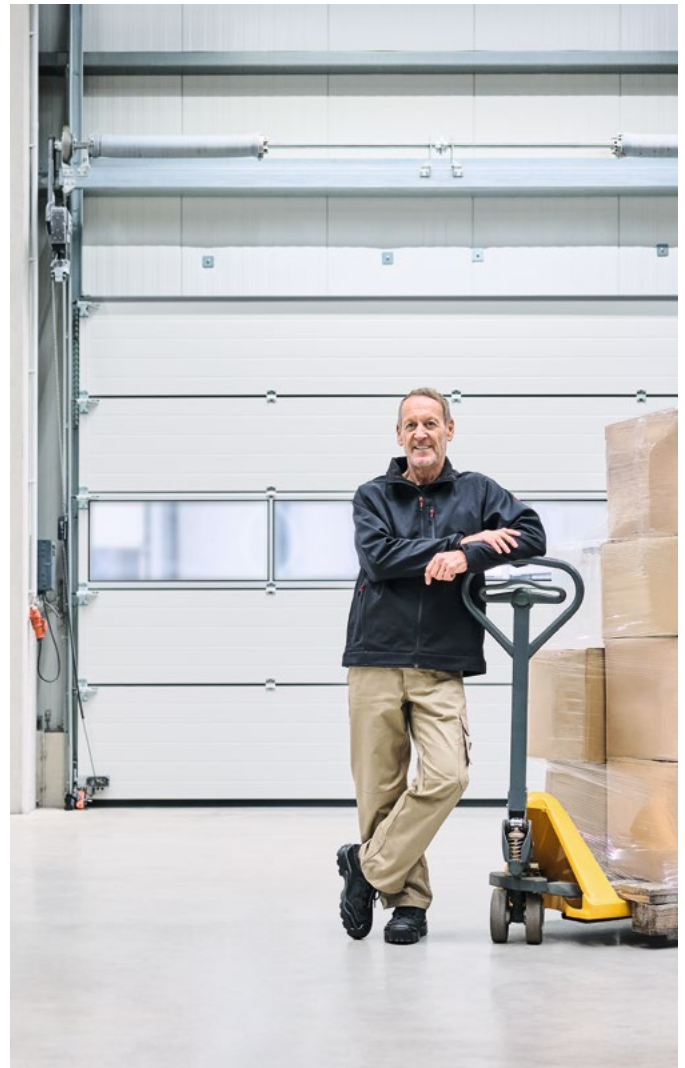


- 1** Industrial sectional door SPU F42
- 2** Industrial sectional door SPU F42 XL
- 3** Industrial sectional door SPU 67 Thermo
- 4** CS rolling shutter Decotherm S
- 5** DD rolling shutter Decotherm S
- 6** Flexible high-speed door V5015 SEL
- 7** Cold storage door V4015 Cold
- 8** Deep freeze door ISO Speed Cold 100 H
- 9** Deep freeze door ISO Speed Cold 100 V
- 10** Hydraulic dock leveller HLS
- 11** Hydraulic dock leveller HTL-2-P
- 12** Flap dock shelter DSL
- 13** Inflatable dock seal DAS-3
- 14** Loading house LHP
- 15** Multi-purpose hinged door

Hörmann system door solution for modern public buildings

Hörmann's diverse range of products provides comprehensive solutions for different kind of buildings. these products can meet your high requirements on functionality and safety of doors by flexible combination and optimization. As your strong partner, Hörmann has always been committed to initiate the future of your civil construction and commercial buildings.

**FIRE-RATED DOORS • INTERIOR DOORS MULTI-PURPOSE DOORS • SLIDING DOORS
STEEL TUBULAR DOORS • PARTITION WALLS
PERIMETER PROTECTION SYSTEMS
INDUSTRIAL DOORS • LOADING TECHNOLOGY
OPERATORS**



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