German Quality

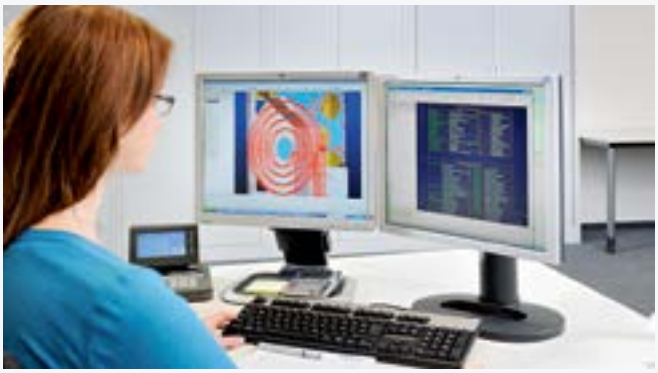
High-Speed Doors

For optimized material flow and improved efficiency

HÖRMANN

Hörmann brand quality

Reliable and oriented towards the future



High-speed progress

Without on-going development and improvements by our highly-qualified technicians as well as comprehensive knowledge of all the market requirements, efficient high-speed door designs of a recognized high standard would not be possible.

Precise production

Innovative production processes that have been matched perfectly with each other guarantee steadily increasing product quality.

As Europe's leading manufacturer of doors, hinged doors, frames and operators, we are committed to high product and service quality. This is how we set standards on an international scale.

Highly-specialized factories develop and manufacture construction components that are characterized by excellent quality, functional safety and a long service life.

Our presence in the global economy's key regions makes us a strong, future-oriented partner for industrial and public construction projects.

TESTED AND CERTIFIED

Certified safety
Hörmann high-speed doors are manufactured in line with stringent European standards and are certified as well.

10 YEAR guaranteed availability

It goes without saying that spare parts for doors, operators and controls are original Hörmann parts that come with a guaranteed availability of 10 years.

Competent advice

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

Efficient service

Our extensive service network means that we are never far away. This is a major advantage in terms of inspections, maintenance and repairs.

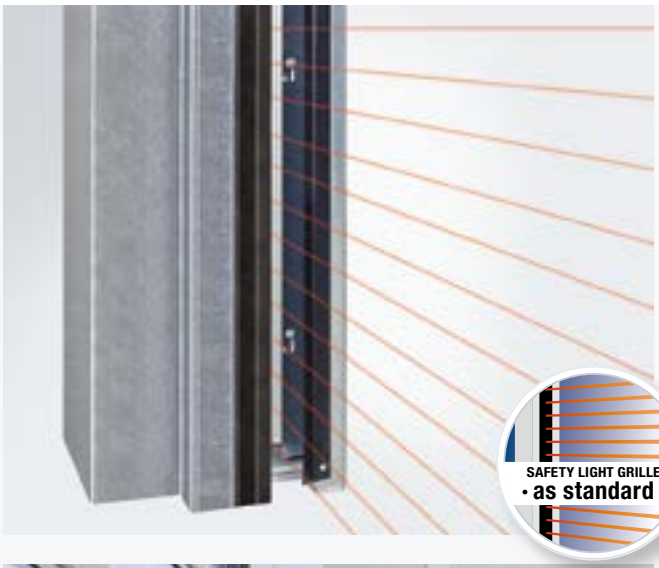
Spiral, sectional and rolling high-speed doors

Fast external doors with PU insulating panels for high thermal insulation

Figure: Spiral Door HS 7030 PU

These doors are characterized by their high thermal insulation, fast opening speed and light grilles as standard, as well as hot-galvanized double-skinned sections or lathes with elegant surface finishes. The high opening and closing speeds of these doors optimise work processes and significantly accelerate logistics processes.

Innovative technology and design
In every detail



Non-contact safety

The safety light grille integrated in the frame monitors the closing zone of the door up to a height of 2500 mm. This does away with the need for additional installations on the door (e.g., closing edge safety device, photocell). Profit from this high level of safety with a high-speed door is exceptionally easy to fit and service.

Long service life and high efficiency as standard

The standard frequency converter control takes stress off the entire door mechanism, guaranteeing nearly wear-free, quiet door travel. The opening and closing speeds optimize your operations and reduce heat losses. In addition, it relieves the entire door mechanism through the smooth starting and braking action which considerably extends the service life of the door.

External view
with Micrograin surface finish

External view
of glazing

Uniformly foamed steel sections

The 42 mm hot-galvanized, double-skinned sections with PU rigid foam infill provide for particularly high thermal insulation resulting in a U_D value of 1.95 W/(m²·K)*.
The doors are supplied as standard in white aluminum (RAL 9006) on both sides. The exterior is characterized by the fine Micrograin lines; on the interior the sections are stucco-textured.

Optional glazing

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

* For 25 m² door surface

High-speed spiral door HS 7030 PU

With non-contact roll-up technology

A compact spiral guide

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

External door / internal door	HS 7030 PU
Size range	
Max. width (LDB)	6500 mm
Max. height (LDH)	6000 mm
Speed	
With standard FU control AK 500 FUE - 1	
Max. opening speed	1.5 – 2.5 m/s
Max. closing speed	0.5 m/s
Emergency opening / emergency closing	
Emergency hand chain	
Door leaf	
Material	Steel sandwich construction, PU-foamed, DURATEC glazing optional
Depth	42 mm
Section height	225 mm
Hinge connections from approx. 3500 mm door width	
Resistance to wind load (EN 12424)	Class 4, max. 133 km/h
Acoustic insulation (EN 717-1) (Without glazing)	R = 26 dB
Thermal insulation (EN 12428) For 25 m^2 door size	U_D = 1.95 W/(m^2·K)
Door leaf colors** Available in over 200 colors based on RAL.	

** With the exception of pearl-effect, fluorescent colors. Dark colors should not be used for doors that are exposed to the sun, as possible section deflection may restrict the door's function.

High-speed sectional door HS 5015 PU N

With normal track application

SAFETY LIGHT GRILLE
• as standard •

The space-saving track application
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.

External door / internal door	HS 5015 PU N
Size range	
Max. width (LDB)	5000 mm
Max. height (LDH)	5000 mm
Speed	
With standard FU control AK 500 FUE - 1	
Max. opening speed	1.5-2.5 m/s
Max. closing speed	0.5 m/s
Emergency opening / emergency closing	
Emergency hand chain	
Door leaf	
Material	Steel sandwich construction, PU-foamed, DURATEC glazing optional
Depth	42 mm
Section height	225 mm
Hinge connections from approx. 3500 mm door width	
Resistance to wind load (EN 12424)	Class 4, max. 133 km/h
Acoustic insulation (EN 717-1)	
(Without glazing)	R = 26 dB
Thermal insulation (EN 12428)	
For 25 m^2 door size	U_D = 1.95 W/(m^2·K)
Door leaf colors**	
Available in over 200 colors based on RAL.	

** With the exception of pearl-effect, fluorescent colors. Dark colors should not be used for doors that are exposed to the sun, as possible section deflection may restrict the door's function.

High-speed sectional door HS 5015 PU H

With high-lift track application

The adjustable track application
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 especially low-wear and long-lasting.

External door / internal door	HS 5015 PU H
Size range	
Max. width (LDB)	5000 mm
Max. height (LDH)	6000 mm
Speed	
With standard FU control AK 500 FUE - 1	
Max. opening speed	1.5-2.5 m/s
Max. closing speed	0.5 m/s
Emergency opening / emergency closing	
Emergency hand chain	
Door leaf	
Material	Steel sandwich construction, PU-foamed, optionally with DURATEC glazing
Depth	42 mm
Section height	225 mm
Hinge connections from approx. 3500 mm door width	
Resistance to wind load (EN 12424)	Class 4, max. 133 km/h
Acoustic insulation (EN 717-1) (Without glazing)	R = 26 dB
Thermal insulation (EN 12428) For 25 m^2 door size	U_D = 1.95 W/(m^2·K)
Door leaf colors** Available in over 200 colors based on RAL.	

** With the exception of pearl-effect, fluorescent colors. Dark colors should not be used for doors that are exposed to the sun, as possible section deflection may restrict the door's function.

High-speed sectional door HS 6015 PU V

With vertical track application

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

External door / internal door	HS 6015 PU V
Size range	
Max. width (LDB)	6500 mm
Max. height (LDH)	6000 mm
Speed	
With standard FU control AK 500 FUE - 1	
Max. opening speed	1.5-2.5 m/s
Max. closing speed	0.5 m/s
Emergency opening / emergency closing	
Emergency hand chain	
Door leaf	
Material	Steel sandwich construction, PU-foamed, DURATEC glazing optional
Depth	42 mm
Section height	225 mm
Hinge connections from approx. 3500 mm door width	
Resistance to wind load (EN 12424)	Class 4, max. 133 km/h
Acoustic insulation (EN 717-1)	R = 26 dB
Thermal insulation (EN 12428)	
For 25 m^2 door size	U_D = 1.95 W/(m^2·K)
Door leaf colors** Available in over 200 colors based on RAL.	

** With the exception of pearl-effect, fluorescent colors. Dark colors should not be used for doors that are exposed to the sun, as possible section deflection may restrict the door's function.

High-speed sectional door ISO Speed Cold 100

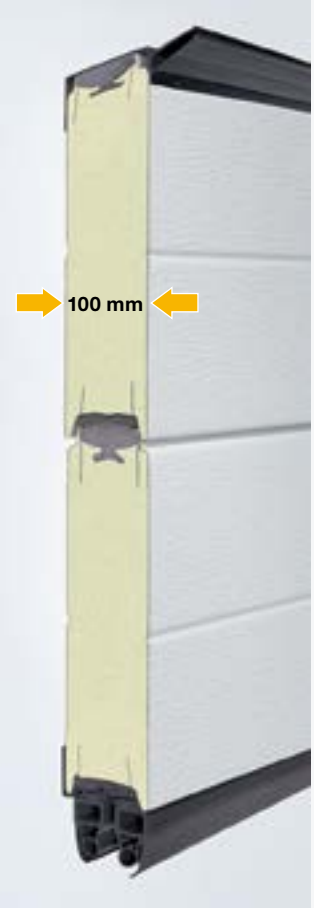
Fast energy-saving cold store and deep freeze door

Available for track application H and V

Fast, airtight and efficient
Thanks to its sections with thermal break and special seals for the building structure and floor, the ISO Speed Cold is the optimum solution for all areas with high temperature differences. Used as a high-speed door in cold-storage areas or to save energy in production and distribution areas, the ISO Speed Cold remains impervious.

With thermal breaks
The ISO Speed Cold features steel sections with rigid foam (PU) with a thermal break on the inside and outside. Additional lintel and bottom seals help to achieve an excellent thermal insulation.

ThermoFrame as standard
The ThermoFrame separates the frame from the building structure. The thermal break, including additional seals, ensures excellent thermal insulation and provides optimal corrosion protection for the side frame.



Sections with thermal break

External door / internal door	ISO Speed Cold 100
Size range	
Max. width (LDB)	5000 mm
Max. height (LDH)	5000 mm
Speed	
With standard FU control AK 500 FUE - 1	
Max. opening speed	2.0 m/s
Max. closing speed	0.5 m/s
Panel	
Foamed with polyurethane	
Thickness	100 mm
Emergency opening	
Counterweight Emergency hand chain	
Thermal insulation (EN 12424)	
Fitted door	$U_D = 0.57$ W/(m²·K)
Track applications	
Track application V for fitting within and outside of freezer High-lift track application only for fitting outside of freezer	
Door leaf colours**	
Available in over 200 colours based on RAL. Standard: Grey white, RAL 9002	

** With the exception of pearl-effect, fluorescent and metallic colours. Dark colours should not be used for doors that are exposed to the sun, as possible section deflection may restrict the door's function.

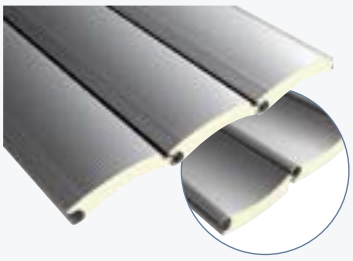
High-speed rolling shutter SR 9000

Fast, secure alternative to traditional rolling steel doors in high cycle applications

Revolutionary high-speed rolling shutter design
The SR 9000 is a class above traditional rolling shutters. With direct-drive, springless operation, extremely strong panel and fast operating speeds, this revolutionary high performance rolling shutter is the model to choose as an alternative to traditional rolling shutters in high cycle applications.

Light grille along the guide tracks
A standard light grille is fitting with the low-profile guide tracks and protects persons and goods from contact with the door. In addition to protecting people and goods, this system reduces the likelihood of damage to the door which saves on maintenance costs and downtime.

L-pads minise the noise and wear
The soft L-pads are standard fixed at the back of the curtain slats. This design not only protect the surface of the curtain slats from the friction, but also reduce the noise and wear.


Decotherm S panel is damage-resistant.


Light grille protects traffic safety

External door / internal door	SR 9000
Size range	
Max. width (LDB)	5000 mm
Max. height (LDH)	4500 mm
Speed	
With standard FU control BK 150 FUE - 1 (up to approx. 14 m² door size)	
Max. opening speed	1.0 m/s
Max. closing speed	0.5 m/s
With standard FU control AK 500 FUE - 1 (from approx. 14 m² door size as standard)	
Max. opening speed	1.0 m/s
Max. closing speed	0.5 m/s
Panel	
Foamed with polyurethane	
Colours	RAL 9002 Grey white RAL 9006 White aluminium RAL 7016 Anthracite grey
Thickness	Approx. 20 mm
Emergency opening	
Emergency crank handle	
Resistance to wind load (EN 12424)	
	Class 2
Acoustic insulation (EN 717-1)	
	R = 19 dB
Thermal insulation (EN 12428)	
For 25 m² door size	U_D = 4.2 W/(m²·K)

Flexible high-speed doors

To improve indoor climate and optimize the flow of traffic

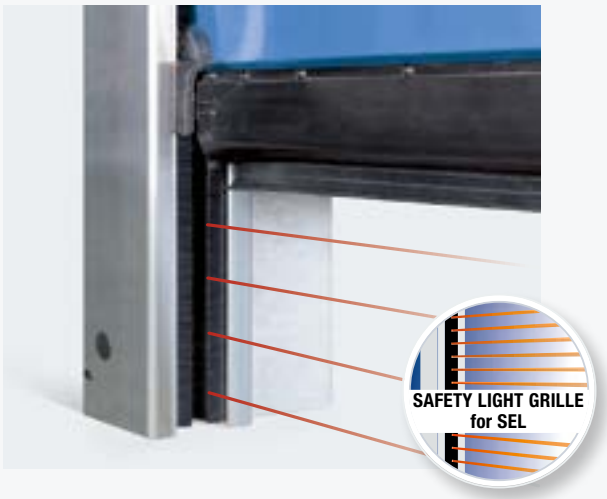
Flexible high-speed doors from Hörmann have been designed for safe, efficient and lasting operation. The high-tech light grille, as well as the closing edge safety device, make the door particularly safe and easy to fit and service.

Impulses for a longer service life and increased efficiency

At Hörmann, you receive all high-speed doors with a frequency converter control (FU) as standard – for fast, safe and low-wear door travel. High opening and closing speeds help you to optimize your operations and reduce heat losses and drafts at the workplace. In addition, it relieves the entire door mechanism through the smooth starting and braking action which considerably extends the service life of the door.

No downtimes resulting from a crash thanks to the SoftEdge bottom profile

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.



Non-contact safety

The standard safety light grille (IP 67) for SEL door monitors the closing zone of the door up to a height of 2500 mm. A closing edge safety device is not required. Fitting in the frame also reduces the risk of collision damage. These advantages are what make Hörmann high-speed doors especially easy to service and fit.

SoftEdge bottom profile
with integrated radio crash switch

Radio crash switch

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**. Without the spiral cable, the doors are especially easy to service and fit; downtimes for troubleshooting will also be reduced.

V 5015 SEC / SE / SEL

Internal door with SoftEdge

Especially economical
The inexpensive high-speed door for inside with SoftEdge bottom profile and standard FU control allows safe and gentle continual operation.

The curtain stability of the door type V 5015 SEC/SE/SEL is achieved through proven aluminum profiles and has a horizontally stable SoftEdge bottom profile at the lower edge.

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

Curtain stability
with aluminum profiles

Internal door	V 5015 SEC / SE / SEL
Size range	
Max. width (LDB)	5000 mm
Max. height (LDH)	5000 mm
Speed	
With standard FU control BK 150 FUE - 1	
Max. opening speed	1.5 m/s
Max. closing speed	0.8 m/s
Emergency opening	
Crank handle	
Curtain	
With aluminum profile	
Fabric thickness	1.5 mm
Vision panel thickness	2.0 mm
Curtain colors	
RAL 1018	Zinc yellow
RAL 2004	Pure orange
RAL 3002	Carmine red
RAL 5010	Gentian blue
RAL 7038	Agate gray

V 5030 SEL

Internal door with SoftEdge and anti-crash

Quiet and fast
In areas with a low noise level, a door should cause little noise, too, and work quickly and reliably even with strong drafts.

This is why the V 5030 SEL door type is equipped with spring steel wind locks that provide the necessary curtain stability.

Speeds of up to 3 m/s are achieved with the optional Hörmann AK 500 FUE-1 control and high speed operator.

Spring steel wind locks
Integrated in a curtain pocket, with lateral twin rollers, these ensures quiet door travel and allows for higher wind loads.

The V 5030 SEL with aluminum bottom profile can also be optionally obtained for wind class 1 (DIN EN 12424).

Spring steel wind lock

Internal door	**V 5030 SEL**
Size range	
Max. width (LDB)	5000 mm
Max. height (LDH)	5000 mm
Speed	
With standard FU control BK 150 FUE - 1	
Max. opening speed	2.0 m/s
Max. closing speed	0.8 m/s
Optional control AK 500 FUE - 1	
Max. opening speed	3.0 m/s
Max. closing speed	0.8 m/s
Emergency opening	
Crank handle	
Curtain	
Spring steel wind lock with lateral twin rollers	
Fabric thickness	1.5 mm
Vision panel thickness	2.0 mm
Resistance to wind load (EN 12424)	
With aluminum bottom profile	Class 1, max. 88 km/h
Curtain colors	
RAL 1018 Zinc yellow	
RAL 2004 Pure orange	
RAL 3002 Carmine red	
RAL 5010 Gentian blue	
RAL 7038 Agate gray	

V 6030 SEC / SE / SEL

Internal and external door with SoftEdge

For highly-frequented transport routes, with crash-protection
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.

Spring steel wind lock in curtain pocket
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.

The V 6030 SEC/SE/SEL can be optionally obtained with aluminum bottom profile.

Spring steel wind lock

The tensioning system tensions the door curtain for reliable door travel.

Internal door / external door	V 6030 SEC / SE / SEL
Size range	
Max. width (LDB)	5000 mm*
Max. height (LDH)	6000 mm
Speed	
With standard FU control BK 150 FUE - 1	
Max. opening speed	2.0 m/s
Max. closing speed	0.8 m/s
Optional control AK 500 FUE - 1	
Max. opening speed	3.0 m/s
Max. closing speed	0.8 m/s
Emergency opening	
Crank handle	
Curtain	
Spring steel wind lock with lateral twin rollers and tensioning system	
Fabric thickness	1.5 mm
Vision panel thickness	2.0 mm
Resistance to wind load (EN 12424)	Class 2, max. 100 km/h
Curtain colors	
RAL 1018	Zinc yellow
RAL 2004	Pure orange
RAL 3002	Carmine red
RAL 5010	Gentian blue
RAL 7038	Agate gray

* V 6030 SEL with aluminum bottom profile (AEL), Max. width 6000 mm.

V 6020 TRL

Internal and external doors with transparent curtain

Fully transparent for more light
The fully transparent high-speed door V 6020 TRL is suitable for high ingress of light as an external door and also for an internal door. The 4-mm-thick transparent curtain lets light into the room, resulting in a pleasantly bright workplace.

See what's coming at you
The fully transparent curtain results 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.

Wind lock
In addition to the tensioning system fitted as standard, spring steel wind locks ensure the necessary curtain stability.

Transparent for more light and unimpeded visual contact

Aluminum bottom profile for more stability

Internal door / external door	V 6020 TRL
Size range	
Max. width (LDB)	6000 mm
Max. height (LDH)	7000 mm
Speed	
With standard FU control BK 150 FUE - 1	
(up to approx. 12.25 m² door size)	
Max. opening speed	2.0 m/s
Max. closing speed	0.5 m/s
Optional FU control AK 500 FUE - 1	
(from approx. 12.25 m² door size as standard)	
Max. opening speed	2.0 m/s
Max. closing speed	0.5 m/s
Emergency opening	
Crank handle	
Curtain	
Spring steel wind lock with lateral twin rollers and tensioning system	
Fully transparent curtain thickness	4.0 mm
Resistance to wind load (EN 12424)	Class 3, max. 115 km/h
Wind lock strip colors	
RAL 1018	Zinc yellow
RAL 2004	Pure orange
RAL 3002	Carmine red
RAL 5010	Gentian blue
RAL 7038	Agate gray

V 9012 L Stacking

Internal and external door for large openings

Folding curtain with belt system
The curtain is opened via a belt system with wind reinforcement laths and folded in the lintel area. The aluminium profiles are arranged vertically, at distances of 600 mm along the entire door height. As standard, a 600 mm vision panel is integrated into the curtain over the entire door width. On request, two sections can also be transparent.

Ideal for external fitting
The V 9012 L Stacking was designed especially for high door openings in halls with little lintel space (min. 1350 mm), since the door can also be fitted outside on the hall. The operator technology is integrated in the frame and barrel cover, protected from adverse effects of the weather. The control can optionally be operated simply and conveniently from the floor via an external control element integrated into the frame. (Additional, external control element required)

Integrated operator technology

Aluminium profiles stabilising the curtain

Internal door / external door	V 9012 L Stacking
Size range	
Max. width (LDB)	9000 mm
Max. height (LDH)	6000 mm
Speed	
With standard relay control unit AKE (up to 200 kg)	
Max. opening speed	0.8 m/s
Max. closing speed	0.8 m/s
With optional FU control	
Max. opening speed	0.8 m/s
Max. closing speed	0.8 m/s
With standard FU control AK 500 FUE - 1 (from 200 kg)	
Max. opening speed	1.2 m/s
Max. closing speed	0.8 m/s
Emergency opening	
Emergency crank handle Optional: Emergency hand chain	
Curtain	
With aluminum profiles	
Thick, textile-reinforced UPVC	0.9 mm
Vision panel thickness	2.0 mm
Resistance to wind load (EN 12424)	
Door width up to 6000 mm	Class 3, max. 115 km/h
Door width over 6000 mm	Class 2, max. 100 km/h
Curtain colors	
RAL 1018 Zinc yellow	
RAL 2004 Pure orange	
RAL 3002 Carmine red	
RAL 5010 Gentian blue	
RAL 7038 Agate gray	

V 10008

External door for especially large openings

For oversized openings
Double lashing straps and especially wide side guides ensure safe door travel even with a high door curtain weight. The standard FU control and double closing edges on the bottom profile ensure that the closing force is maintained and provide the door with its required safety.

Spring steel wind lock in curtain pocket
The lateral twin rollers ensure quiet and secure door travel. Even wind loads of up to 100 km/h do not pose problems thanks to the spring steel wind protectors. The number of wind locks is determined by the door size, wind load requirements and the fitting situation.

Spring steel wind lock

Especially deep curtain recess

External door	V 10008
Size range	
Max. width (LDB)	10000 mm
Max. height (LDH)	6250 mm
Speed	
With standard FU control AK 500 FUE - 1 (door width up to 6000 mm)	
Max. opening speed	1.5 m/s
Max. closing speed	0.4 m/s
(door width from 6000 mm)	
Max. opening speed	0.8 m/s
Max. closing speed	0.4 m/s
Emergency opening	
Emergency hand chain	
Curtain	
Spring steel wind lock with lateral twin rollers and tensioning system	
Fabric thickness	1.5 mm
Vision panel thickness	2.0 mm
Resistance to wind load (EN 12424)	
Door width up to 6000 mm	Class 3, max. 115 km/h
Door width over 6000 mm	Class 2, max. 100 km/h
Curtain colors	
RAL 1018	Zinc yellow
RAL 2004	Pure orange
RAL 3002	Carmine red
RAL 5010	Gentian blue
RAL 7038	Agate gray

V 5030 MSL

Internal door for protecting people and machines

Safety for people and machines
The requirements for work safety and modern manufacturing processes are constantly increasing. Reliable production processes with short downtimes, simple access for operation and maintenance of the manufacturing machines and of course the safety of the employees are all important.

Secure monitoring and quick access
The flexible high-speed door with machine protection function fulfils all of these requirements. It 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.

Safety sensors transmit the door position

Internal door	V 5030 MSL
Size range	
Max. width (LDB)	4000 mm
Max. height (LDH)	4000 mm
Speed	
With standard FU control BK 150 FUE - 1 (up to 95 kg), FU control AK 500 FUE - 1 (from 95 kg)	
Max. opening speed	1.5 m/s
Max. closing speed	0.8 m/s
Emergency opening	
Emergency crank handle Optional: Automatic door opening via UPS in case of power failure	
Curtain	
With spring steel wind lock	
Fabric thickness	2.4 mm
Vision panel thickness	4.0 mm
Curtain colours	
RAL 1018	Zinc yellow
RAL 2004	Pure orange (optionally as fabric curtain)
RAL 3002	Carmine red
RAL 5010	Gentian blue (optionally as fabric curtain)
RAL 7038	Agate gray (optionally as fabric curtain)

V 4015 ISO L

Internal door for fresh and cold logistics up to 5°C

For cold and fresh foods with insulated curtain for good thermal values
The energy-saving door in internal areas for cold and fresh logistics.

A thermal insulation value of $U_P = 1.6$ W/(m²·K) is achieved.

Increased thermal insulation thanks to ThermoFrame
The optional ThermoFrame separates the frame from the building structure. The thermal break, including additional seals, improves thermal insulation by up to 15% and provides optimal corrosion protection for the side frame. The ThermoFrame is easy and quick to fit.


Wind lock


PE foam in curtain pockets

Internal door	V 4015 ISO L
Size range	
Max. width (LDB)	4000 mm
Max. height (LDH)	4500 mm
Speed	
With standard FU control BK 150 FUE - 1	
Max. opening speed	1.5 m/s
Max. closing speed	0.5 m/s
Emergency opening	
Emergency crank handle Optional: Automatic door opening via UPS in case of power failure (BK 150 FUE-1 UPS, 230 V)	
Curtain	
Curtain pockets with a PE foam infill, 20 mm thick	
Thermal insulation (EN 12424) $U_P = 1.6$ W/(m²·K)	

V 2515 Food L

Internal door for wet areas in the food industry

Easy to clean
The side guides in this special version are easy to clean. High-pressure cleaning systems and water are not a problem for the door construction, which is made entirely of stainless steel. No counter weights or springs complicate the cleaning of the frame.

Spray-water protected
The operator is completely enclosed in a splash-water protected operator cover made of V2 A stainless steel (protection category IP 65).

The safety light grille complies with protection category IP 67.

The door is supplied with an EPDM seal and safety light grille in the frame as standard.

Easy to clean

Internal door	V 2515 Food L
Size range	
Max. width (LDB)	2500 mm
Max. height (LDH)	3000 mm
Speed	
With standard FU control BS 150 FUE - 1 V2 A	
Max. opening speed	1.2 m/s
Max. closing speed	0.5 m/s
Emergency opening	
Optional: automatic door opening via UPS during a power failure (BS 150 FU E H V2A UPS, 230 V)	
Curtain	
With spring steel in curtain pockets	
Fabric thickness	1.5 mm
Vision panel thickness	2.0 mm
Curtain colors	
RAL 1018	Zinc yellow
RAL 2004	Pure orange
RAL 3002	Carmine red
RAL 5010	Gentian blue
RAL 7038	Agate gray

V 3515 SEL Alu-RI / V5015 AEL Alu-RE

With innovative tubular operator and aluminium side elements

NEW

Powerful tubular operator
Thanks to its powerful, innovative tubular operator, the compact high-speed door is ideal for fitting situations in tight spaces. In addition, the standard light grille and FU control make it safe and economical. Standard with the galvanized steel shaft cover provide the protection for the tubular operator and wiring cables.

Compact design
The elegant, narrow aluminium side elements require a low side room up to 125 mm. The door curtain is particularly well sealed thanks to the very small gap dimension and lip seals.

The optional control element (80 × 120 mm) can be integrated in the side frame at a height of 1300 mm.

Powerful tubular operator, easy to fit and service

Optional control element for convinient operation

Internal door	**V 3515 SEL Alu-RI**
External door	**V 5015 AEL Alu-RE**
Size range	
Internal door	
Max. width (LDB)	3500 mm
Max. height (LDH)	5000 mm
External door	
Max. width (LDB)	5000 mm
Max. height (LDH)	5000 mm
Speed	
With standard FU control BK 150 FUE - 1	
Max. opening speed	1.5 m/s
Max. closing speed	0.8 m/s
Curtain	
Fabric thickness	1.5 mm
Vision panel thickness	2.0 mm
Resistance to wind load (EN 12424)	
External door	Class 2
Curtain colors	
RAL 1018 Zinc yellow	
RAL 2004 Pure orange	
RAL 3002 Carmine red	
RAL 5010 Gentian blue	
RAL 7038 Agate gray	

V 3015 CLEAN

Internal door for clean rooms, transparent curtain

Special curtain for pressure differences

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.

Extremely leaktight and fully transparent

Curtain tightly integrated in the side guides

Internal door	V 3015 CLEAN
Size range	
Max. width (LDB)	2500 mm
Max. height (LDH)	3000 mm
Speed	
With standard FU control BK 150 FUE-1	
Max. opening speed	1.5 m/s
Max. closing speed	0.5 m/s
Emergency opening	
Emergency crank handle	
Curtain	
With spring steel in curtain pockets	
Fully transparent curtain thickness	4.0 mm
Wind lock strip colors	
RAL 1018 Zinc yellow	
RAL 2004 Pure orange	
RAL 3002 Carmine red	
RAL 5010 Gentian blue	
RAL 7038 Agate gray	

V 3009

Internal door for conveyor systems

Designed for continual operation
The V 3009 is fitted between the operating sections and the storage areas within the conveyor system and is used to save energy and reduce drafts and noise. The door is designed for a high number of automated opening and closing cycles.

The door control can be integrated in existing PLC systems. A volt-free contact reports the door position (open / closed) to the control.

A vision panel gives insight into the operating procedure

Internal door	V 3009
Size range	
Max. width (LDB)	3500 mm
Max. height (LDH)	3500 mm
Speed	
With standard control AK E (contactor)	
Max. opening speed	0.8 m/s
Max. closing speed	0.8 m/s
With optional FU control BK 150 FUE - 1	
Max. opening speed	1.2 m/s
Max. closing speed	0.5 m/s
Emergency opening	
Emergency crank handle	
Curtain	
With aluminum profile	
Fabric thickness	1.5 mm
Vision panel thickness	2.0 mm
Curtain colors	
RAL 1018 Zinc yellow	
RAL 2004 Pure orange	
RAL 3002 Carmine red	
RAL 5010 Gentian blue	
RAL 7038 Agate gray	

Flex strip curtain SVF

The clear solution for every door opening

Minimal energy loss

Hörmann's Flex strip curtains are especially suitable for use as inexpensive doors for large warehouse openings. The durable UPVC strips provide effective sealing to a large area and can be opened up just enough to accommodate the width of a vehicle or load. This reduces temperature loss to a minimum, even with heavy through-traffic, thus saving energy. The first-class transparency of Flex strip curtains improves lighting conditions and reduces lighting costs. Suitable for use in food or medication production and in cold store areas.

The clip in system

This attaching system makes fitting our strip curtains quick and easy. The plastic clip with its riveted UPVC strip can simply be hooked into the aluminum profile rail – without any extra tools. Clips and UPVC strips are delivered as finished units. The strips can be easily unhooked and exchanged if necessary.

The clip in system

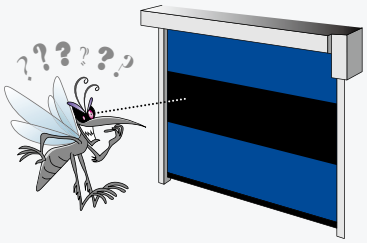
The space-saving solution

Internal use / external use	SVF
Fitting height	
Strips 200 x 2 mm for internal use	
Max. height	2000 mm
Strips 400 x 4 mm for internal and external use	
Max. height for interior use	3000 – 6000 mm*
Max. height for exterior use	3000 – 4500 mm*
Fitting width	
Max. width 10000 mm, larger widths on request	

* Max. height of strip curtain is different for different overlapping of curtain from 25% to 100%.

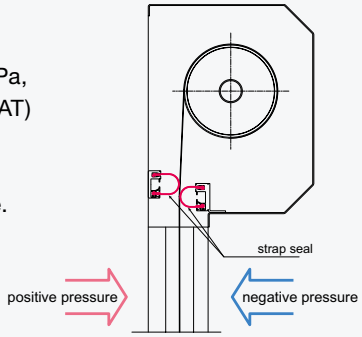
Anti-insect and air-tight function

Anti-insect function
Since the spectral vision range of human and insects is different, the anti-insect curtain can absorb 99.8% attractive UV & visible wavelengths perceived by insects; thus the insects can hardly see any light from the transparent curtain and therefore they will not fly towards the opening. This function can be easily achieved by exchanging the vision panel to anti-insect vision panel.



Anti-insect function is available on	V 5015 SEC/SE/SEL V 5030 SEL V 6030 SEC/SE/SEL

Air-tight function
In areas which have an inside and outside pressure difference up to 10 Pa, we can provide the optional air-tight (AT) or semi-air-tight (SAT) function on V 5030 SEL, V 6030 SE, V 6030 SEC/SE/SEL doors to minimize air leakage. Air-tight function is only available for doors with optional shaft cover.



GBRC

Door type	Air leakage Q $m^3/h \cdot m^2$ Exterior pressure-interior pressure=10 Pa	Air leakage Q $m^3/h \cdot m^2$ Interior pressure-exterior pressure=10 Pa
V 5030 SEL AT	**17.8**	**14.3**
V 6030 SE AT	**21.0**	**10.2**
V 6030 SEL SAT	**32.4**	**21.2**

Air-tight function is available on	V 5030 SEL V 6030 SEC/SE/SEL

Standard at Hörmann

Intelligent operator and control technology

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. All operators and controls are equipped with plug-in terminals to allow the control circuit boards to be easily changed (control voltage 24 V DC).

Standard at Hörmann:

Frequency converter control

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

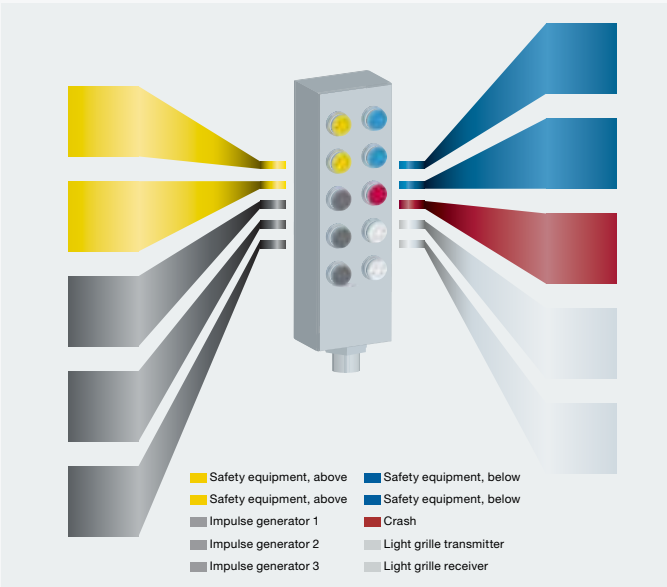
Door cycle counter

Operation time monitoring

Automatic timer (adjustable hold-open phase)

Error display / diagnosis via a 4x7-segment display

Service operation setting



FU controls

BK 150 FUE - 1
FU control in plastic housing IP 54
1-phase, 230 V

Operation
Open-Stop-Close membrane push button, 4 × 7-segment display to provide information on door functions

Function
Automatic timer, adjustable hold-open phase, safety light grille, closing edge safety device, stop / reopen

Impulse generator
Push button, pull switch, mushroom button, radar presence detector, slots for induction loop detector and remote control

Extension options
traffic light, flashing warning light, locking, intermediate stop, extension PCB
Stainless steel cabinet IP 65

Wiring
Connecting lead 1~230 V, N, PE, fuse 16 A, slow-acting, plug-in connection between door operator and control cabinet, CEE plug, 3-pin with 1 m cable for on-site CEE socket, 16 A
Colour-coded plug-in control wiring

Housing dimensions
230 × 460 × 200 mm

Compatible door types
V 5015 SE/SEC/SEL
V 5030 SEL
V 6030 SE/SEC/SEL
V 6020 TRL (up to 12.25 m²)
V 5030 MSL (up to 95 kg)
V 2012
V 4015 ISO L
V 3009
V 3515 SEL Alu-RI
V 5015 AEL Alu-RE
V 3015 CLEAN
SR 9000 (up to 14 m², 3-phase 400 V)

AK 500 FUE - 1
FU control in plastic cabinet IP 54
three-phase, 400 V

Operation
Open-Stop-Close membrane push button, emergency-off button, 4 × 7-segment display for information on door functions, lockable main switch

Function
Automatic timer, adjustable hold-open phase, safety light grille, closing edge safety device, stop / reopen

Impulse generator
Push button, pull switch, mushroom button, radar presence detector, slots for induction loop detector and remote control

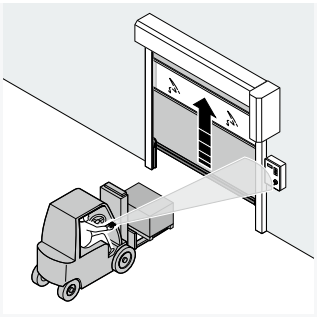
Extension options
Traffic light, flashing warning light, locking, intermediate stop, extension circuit board
Steel cabinet IP 54

Wiring
Connecting lead 3 ~ 400 V, N, PE, fuse 16 A, slow-acting, plug-in connection between door operator and control cabinet, connecting lead cross section 5 × 2.5 mm² (depending on national standards), colour-coded plug-in control wiring

Housing dimensions
230 × 460 × 200 mm

Compatible door types
HS 7030 PU
HS 5015 PU N
HS 5015 PU H
HS 6015 PU V
ISO Speed Cold 100
SR 9000 (from 14 m²)
V 5030 SEL
V 6030 SE/SEL
V 6020 TRL (from 12.25 m²)
V 5030 MSL (from 95 kg)
V 10008
V 9012 L Stacking

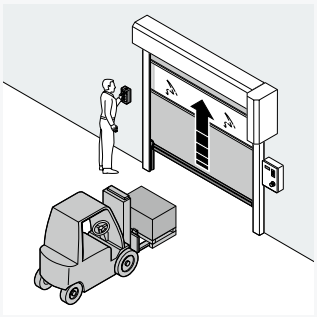
Accessories
Operating and controlling options



Hand transmitter

4-button hand transmitter HS 4 BS

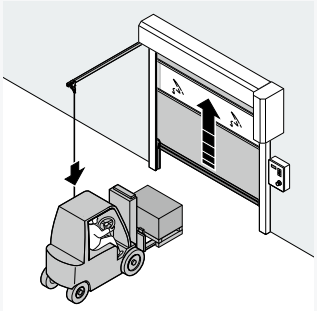
HER 1 BS receiver (single-channel)
with potential-free relay output
in a separate housing without
connection cable



Push button

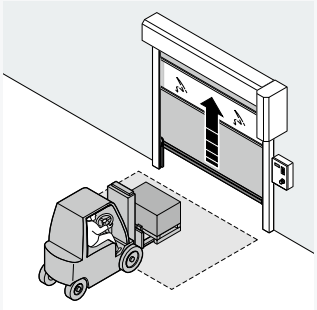
2-key push button
For separate control of both
operational directions.
Protection category: IP 44
Dimensions:
70 × 118 × 65 mm (W × H × D)

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



Pull switch

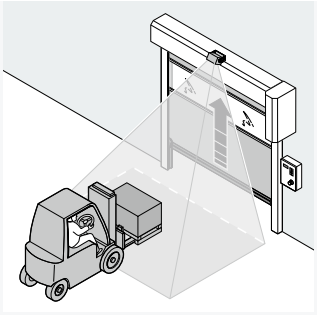
Pull switch with plastic pull cord
Horizontal or vertical fitting possible, aluminum
die-cast housing IP 65, cord length 4 m



Induction loops

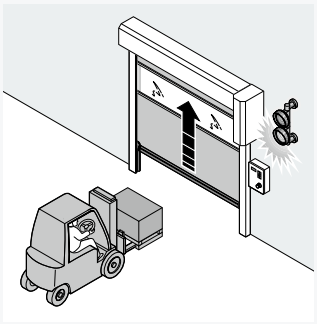
Induction loop detector
2-channel plug-in print suitable
for two separate induction loops,
supplied with loop cable

To operate an efficient door system, it is important to choose the right impulse generator. You should therefore consult your Hörmann specialist adviser.



Radar

Comfort radar / presence detector
Radar movement and presence detectionwith infrared detection. Fast and targeted automatic door opening. Reliable advance protection. Up to max. 6 m height. In areas with high levels of humidity and in outside areas, only the radar function is available.
Housing: protection category IP 65.



Warning light

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

Beacon
Yellow, in plastic housing, IP 54

Overview of door types
Construction and quality features

Use	Internal door	
	External door	
Speed	FU control (3-phase)	Max. opening speed approx. m/s
		Max. closing speed approx. m/s
Security features	DIN EN 13241-1	
Resistance to wind load	DIN EN 12424	
Resistance to water penetration	DIN EN 12425	
Air permeability	DIN EN 12426	
Transmission of heat	DIN EN 12428	
Acoustic insulation	DIN EN 52210 dB	
Door sizes	Max. width LDB	
	Max. height LDH	
For fitting dimensions (space requirement) see the Technical Manual		
Door construction	Self-supporting	
Door leaf counterbalance	Supporting	
Door leaf	Section, double-skinned	
	Foamed door leaf	
Door leaf material / surface	Steel, RAL 9006	
	Wet coating in RAL to choose	
Glazing	Aluminium rail window, anodised aluminium E6 / EV 1	
	Double synthetic panes	
	Triple synthetic panes	
Operator and control	Frequency converter control	
	Connecting voltage	3-phase
		1-phase
	Open-Stop-Close button	
	Main switch with all-pole switch-off	
	Fuse protection	3-phase
		1-phase
	Protection category for operator and control	
	Emergency-OFF button	3-phase
		1-phase
	Closing edge safety device with energy chain	
	Closing zone monitoring	Safety light grille IP 67
	External route monitoring	Photocell
		Light grille
	Door area monitoring	Radar presence detector
		Induction loop
	Hold-open phase in sec.	
	Electronic limit switch DES	
Emergency opening	Emergency crank handle	
	Emergency hand chain	
	Counter weight / spring	
Volt-free contacts / impulse generator / safety devices		

High-speed sectional doors

HS 7030 PU	HS 5015 PU N	HS 5015 PU H	HS 6015 PU V	ISO Speed Cold 100	SR 9000
●	●	●	●	●	●
●	●	●	●	●	●
1.5 – 2.5	1.5 – 2.5	1.5 – 2.5	1.5 – 2.5	2.0	1.0
0.5	0.5	0.5	0.5	0.5	0.5
●	●	●	●	●	●
Class 4	Class 4	Class 4	Class 4	Class 3	Class 2
Class 3	Class 3	Class 3	Class 3	Class 0	Class 0
Class 0	Class 0	Class 0	Class 0	Class 0	Class 0
1.95 W/(m²·K)	1.95 W/(m²·K)	1.95 W/(m²·K)	1.95 W/(m²·K)	0.57 W/(m²·K)	4.2 W/(m²·K)
26	26	26	26	–	19
6500	5000	5000	6500	5000	5000
6000	5000	6000	6000	5000	4500
–	–	–	–	–	–
●	●	●	●	●	–
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	RAL 9002	RAL 9002/9006/7016
○	○	○	○	○	–
○	○	○	○	–	–
○	○	○	○	–	○
○	○	○	○	–	–
●	●	●	●	●	●
3 – 400 V, N, PE	3 – 400 V, N, PE	3 – 400 V, N, PE	3 – 400 V, N, PE	3 – 400 V, N, PE	3 – 400 V, N, PE
–	–	–	–	–	–
●	●	●	●	●	●
●	●	●	●	●	●/–
16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting
–	–	–	–	–	–
IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
●	●	●	●	●	●
–	–	–	–	–	–
–	–	–	–	–	–
●	●	●	●	●	●
–	–	–	–	–	–
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
1 – 200	1 – 200	1 – 200	1 – 200	1 – 200	1 – 200
●	●	●	●	●	●
–	–	–	–	–	●
●	●	●	●	●	–
–/●	–/●	● /–	● /–	● /–	–/–
○/○/○	○/○/○	○/○/○	○/○/○	○/○/○	○/○/○

● = Standard
○ = Optional

Ckt. = Characteristic
WS = Wind lock

1) = optional aluminum bottom profile
2) = not all dimensions are possible yet

Overview of door types
Construction and quality features

Use	Internal door	
	External door	
Speed	FU control (3-phase)	Max. opening speed, approx. m/s
	FU control (1-phase)	Max. opening speed, approx. m/s
	Relay control unit (3-phase)	Max. opening speed, approx. m/sec.
		Max. closing speed, approx. m/s
Safety equipment	DIN EN 13241-1	
Resistance to wind load	DIN EN 12424	
Resistance to water penetration	DIN EN 12425	
Air permeability	DIN EN 12426	
Transmission of heat	DIN EN 12428	
Acoustic insulation	DIN EN 52210 dB	
Curtain stabilisation / WS	Aluminium / spring steel	
Door sizes	Max. width LDB	
	Max. height LDH	
For fitting dimensions (space requirement) see the Technical Manual		
Anti-crash / crash-protection	With automatic / manual start-up	
Door construction	Self-supporting	
Curtain	Fabric / transparent	1.5 (0.9) / 2.0 mm
	Transparent / fabric / transparent	4.0
Door leaf tension		
Guide material / surface	Galvanized steel	
	Galvanized steel, coated, in colours based on RAL	
	Polished stainless steel V2 A	
Shaft / operator cover	Straight	
	30° chamfered (5°)	
Operator and control	Relay control unit	
	FU control	
	Connecting voltage (3-phase)	
	Connecting voltage (1-phase)	
	Open-Stop-Close button	
	FU control, main switch, all-pole switch-off, 1-phase/3-phase	
	Fuse protection	3-phase
		1-phase
	Protection category	Operator, control
	Emergency-OFF button	3-phase
		1-phase
	Closing zone monitoring SEC/SE/SEL	Safety light grille IP 67
		SKS
	External route monitoring	Photocell (On the side guide)
	Door area monitoring	Radar presence detector
		Induction loop
	Hold-open phase in sec.	
	Electronic limit switch DES	
Emergency opening	Emergency crank handle	
	Emergency hand chain	
	Counter weight / springs	
	UPS in plastic cabinet (200 × 400 × 200) for FU control 230 V, 1-phase	
Volt-free contacts / impulse generator / safety devices		

Flexible high-speed doors

V 5015 SEC / SE / SEL	V 5030 SEL	V 6030 SEC / SE / SEL	V 6020 TRL	V 9012 L Stacking	V 10008
●	●	●	●	●	●
–	–	●	●	●	●
–	3.0	3.0	2.0	1.2	1.5 0.8
1.5	2.0	2.0	2.0	1.2	–
–	–	–	–	0.8	–
0.8	0.8	0.8	0.5	0.8	0.4
●	●	●	●	●	●
Class 0	Class 0 / 1 with aluminium bottom profile	Class 2	Class 3	Class (2) / 3	Class (2) / 3
Class 0	Class 0	Class 0	Class 0	Class 0	Class 0
Class 0	Class 0	Class 0	Class 0	Class 0	Class 0
–	–	–	–	–	–
–	–	–	–	–	–
● / –	– / ●	– / ●	– / ●	● / –	– / ●
5000	5000	5000	6000	9000	10000
5000	5000	6000	7000	6000	6250
Anti-crash	Anti-crash	Crash-protection	–	–	–
●	●	●	●	●	–
●	●	●	–	(●)	●
–	–	– / –	●	– / –	– / –
–	–	●	●	–	●
●	●	●	●	●	●
○	○	○	○	○	○
○	○	○	○	–	–
○	○	○	○	–	–
○	○	○	○	(●)	(○)
–	–	–	–	●	–
●	●	●	●	○	●
–	3 – 400 V, N, PE	3 – 400 V, N, PE	3 – 400 V, N, PE	3 – 400 V, N, PE	3 – 400 V, N, PE
1 – 230 V, N, PE	1 – 230 V, N, PE	1 – 230 V, N, PE	1 – 230 V, N, PE	1 – 230 V, N, PE	–
●	●	●	●	●	●
○ / –	○ / ●	○ / ●	○ / ●	○ / ●	– / ●
–	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16A (10A), slow-acting	16 A, slow-acting
16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	–
IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
–	●	●	●	●	●
–	○	○	○	○	–
– / – / ●	●	– / – / ●	●	●	–
– / ● / –	–	– / ● / –	–	–	–
● / ● / –	–	● / ● / –	○	○	(●)
○	○	○	○	○	○
○	○	○	○	○	○
1 – 200	1 – 200	1 – 200	1 – 200	1 – 200	1 – 200
●	●	●	●	●	●
●	●	●	●	●	–
–	–	–	–	○	●
– / –	– / –	– / –	– / –	– / –	– / –
–	–	–	–	○	–
○ / ○ / ○	○ / ○ / ○	○ / ○ / ○	○ / ○ / ○	○ / ○ / ○	○ / ○ / ○

● = Standard
○ = Optional

Ckt. = Characteristic
WS = Wind lock

1) = optional aluminum bottom profile
2) = not all dimensions are possible yet

Overview of door types
Construction and quality features

Use	Internal door	
	External door	
Speed	FU control (3-phase)	Max. opening speed, approx. m/s
	FU control (1-phase)	Max. opening speed, approx. m/s
		Max. closing speed, approx. m/s
Safety equipment	DIN EN 13241-1	
Resistance to wind load	DIN EN 12424	
Resistance to water penetration	DIN EN 12425	
Air permeability	DIN EN 12426	
Transmission of heat	DIN EN 12428	
Curtain stabilisation / WS	Aluminium / spring steel	
Door sizes	Max. width LDB	
	Max. height LDH	
For fitting dimensions (space requirement) see the Technical Manual		
Anti-crash / crash-protection	With automatic / manual start-up	
Door construction	Self-supporting	
Curtain	Fabric / transparent	1.5 / 2.0 mm
	Transparent / fabric / transparent	4.0 mm
	Door leaf, PU-foamed 80 mm	
	Curtain pockets with a PE foam infill, 20 mm thick	
Door leaf tension		
Guide material / surface	Galvanized steel	
	Galvanized steel, coated, in colours based on RAL	
	Polished stainless steel V2 A	
Shaft / operator cover	Straight	
	30° chamfered (5°)	
Operator and control	Relay control unit	
	FU control	
	Connecting voltage (3-phase)	
	Connecting voltage (1-phase)	
	Open-Stop-Close button	
	FU control, main switch, all-pole switch-off, 1-phase / 3-phase	
	Fuse protection	3-phase
		1-phase
	Protection category	Operator, control
	Emergency-OFF button	
	Closing edge safety device	With energy chain
	Closing zone monitoring	Safety light grille IP 67
	External route monitoring	Photocell (internal)
		Light grille
	Door area monitoring	Radar presence detector
		Induction loop
	Hold-open phase in sec.	
	Electronic limit switch DES	
Emergency opening	Emergency crank handle	
	Emergency hand chain	
	Counter weight / springs	
	UPS in plastic cabinet (200 × 400 × 200) for FU control 230 V, 1-phase	
Volt-free contacts / impulse generator / safety devices		

Flexible high-speed doors for special applications

V 5030 MSL	V 4015 ISO L	V 2515 FOOD L	V 2012
●	●	●	●
–	–	–	–
1.5	–	–	–
1.5	1.5	1.2	1.2
0.8	0.5	0.5	0.5
●	●	●	●
Class 1	Class 0	Class 0	Class 0
Class 0	Class 0	Class 0	Class 0
Class 0	Class 0	Class 0	Class 0
–	1.6 W/(m²·K)	–	–
–/●	●/–	–/●	–/●
4000	4000	2500	2500
4000	4500	3000	2500
–	–	Anti-crash	Anti-crash
●	●	●	●
–	–	●	●
●	–	–	–
–	–	–	–
–	●	–	–
–	–	–	–
●	●	–	●
○	○	–	○
○	○	●	○
○	–	–	●
○	(○)	(●)	–
–	–	–	–
●	●	●	●
3 – 400 V, N, PE	–	–	–
1 – 230 V, N, PE	1 – 230 V, N, PE	1 – 230 V, N, PE	1 – 230 V, N, PE
●	●	●	●
○/●	○/–	●/–	●/–
16 A, slow-acting	–	–	–
16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting
IP 54	IP 54	IP 65	IP 54
○	○	○	○
–	–	–	–
●	●	●	–
○	○	○	○
○	○	○	●
○	○	○	○
○	○	○	○
1 – 200	1 – 200	1 – 200	1 – 200
●	●	●	●
●	●	–	–
–	–	–	–
–/–	–/–	–/–	●/–
○	○	○	○
○/○/○	○/○/○	○/○/○	○/○/○

● = Standard
○ = Optional

Ckt. = Characteristic
WS = Wind lock

Overview of door types
Construction and quality features

Use	Internal door	
	External door	
Speed	FU control (3-phase)	Max. opening speed, approx. m/s
	FU control (1-phase)	Max. opening speed, approx. m/s
	Relay control unit (3-phase)	Max. opening speed, approx. m/s
		Max. closing speed, approx. m/s
Safety equipment	DIN EN 13241-1	
Resistance to wind load	DIN EN 12424	
Resistance to water penetration	DIN EN 12425	
Air permeability	DIN EN 12426	
Transmission of heat	DIN EN 12428	
Curtain stabilisation / WS	Aluminium / spring steel	
Door sizes	Max. width LDB	
	Max. height LDH	
Fitting dimensions (space requirement)		
Anti-crash / crash-protection	With automatic / manual start-up	
Door construction	Self-supporting	
Curtain / door leaf	Fabric / transparent	1.5 / 2.0 mm
	Transparent	4.0 mm
Curtain / door leaf tension		
Guide material / surface	Galvanized steel	
	Galvanized steel, coated, in colours based on RAL	
	Aluminium	
	Polished stainless steel V2 A	
Shaft / operator cover	Straight	
	30° chamfered (5°)	
Operator and control	Relay control unit	
	FU control	
	Connecting voltage	3-phase
		1-phase
	Open-Stop-Close button	
	FU control, main switch, all-pole switch-off, 1-phase / 3-phase	
	Fuse protection	3-phase
		1-phase
	Emergency-OFF button	
	Closing edge safety device	With energy chain
	Closing zone monitoring	Safety light grille IP 67
	External route monitoring	Photocell (internal)
		Light grille
	Door area monitoring	Radar presence detector
		Induction loop
	Hold-open phase in sec.	
	Electronic limit switch DES	
Emergency opening	Emergency crank handle	
	Emergency hand chain	
	Counter weight / springs	
	UPS in plastic cabinet (200 × 400 × 200) for FU control 230 V, 1-phase	
Volt-free contacts / impulse generator / safety devices		

Flexible high-speed doors for special applications

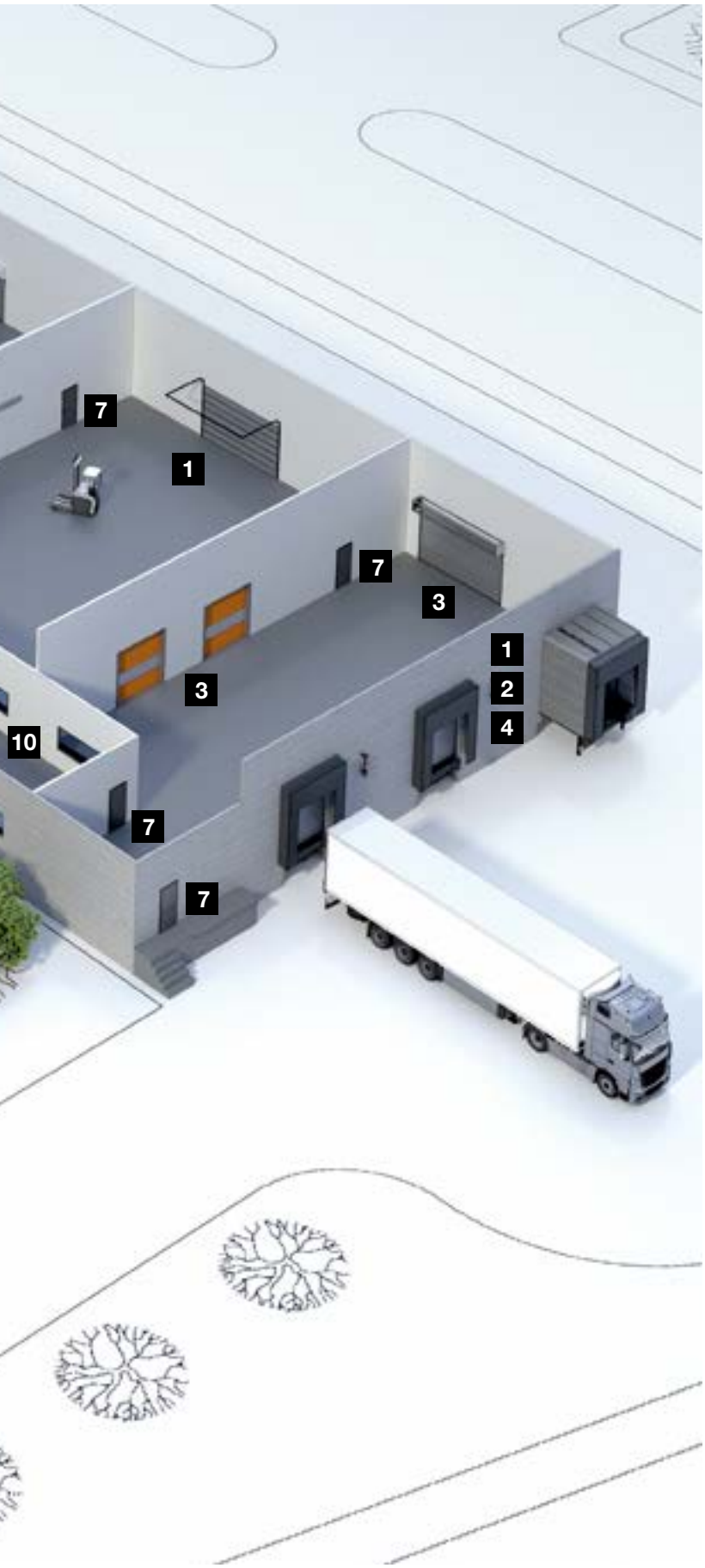
V 3015 CLEAN	V 3009	V 3515 SEL Alu-RI	V 5015 AEL Alu-RE
●	●	●	–
–	–	–	●
–	–	–	–
1.5	1.2	1.5	1.5
–	0.8	–	–
0.5	0.5 (FU) / 0.8 (AKE)	0.5	0.5
●	●	●	●
Class 0	Class 0	Class 0	Class 2
Class 0	Class 0	Class 0	Class 0
Class 0	Class 0	Class 0	Class 0
–	–	–	–
–/●	●/–	– / –	–/●
2500	3000	3500	5000
3000	3000	5000	5000
–	–	–/●	– / –
●	●	●	●
–	●	●	●
●	–	–	–
–	–	–	–
–	●	–	–
–	○	–	–
–	–	●	●
●	○	–	–
–	○	●	●
(●)	○	–	–
–	●	–	–
●	○	●	●
–	3 – 400 V, N, PE	–	–
1 – 230 V, N, PE	1 – 230 V, N, PE	1 – 230 V, N, PE	1 – 230 V, N, PE
●	●	●	●
○/–	○/–	○/–	○/–
–	16 A, slow-acting	–	–
16 A, slow-acting	16 A, slow-acting	16 A, slow-acting	16 A, slow-acting
○	○	–	–
●	●	–	–
–	–	●	●
(●)	(●)	–	–
○	○	–	–
○	○	○	○
○	○	○	○
1 – 200	1 – 200	1 – 200	1 – 200
●	●	●	●
●	●	●	●
–	–	–	–
–/–	–/–	–	–
–	○	–	–
○/○/○	○/○/○	○/○/○	○/○/○

● = Standard
○ = Optional

Ckt. = Characteristic
WS = Wind lock

Hörmann product range
Everything from a single source

Quick service with testing, maintenance and repairs!



1 **Industrial sectional doors**

2 **Rolling shutters and rolling grilles**

3 **High-speed doors**

4 **Loading technology**

5 **Garage doors**

6 **Steel tubular doors**

7 **Fire-rated doors and mutipurpose doors**

8 **Wooden interior doors with steel frame**

9 **Steel interior doors**

10 **Insect protection systems**

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GARAGE DOORS

OPERATORS

DOORS

PARTITION WALLS

INDUSTRIAL DOORS

LOADING TECHNOLOGY

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Some of the doors shown in this brochure have special features and therefore do not always represent the standard version.

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