***NEW DOOR TYPES***
***Speed sectional doors, V 9015 L Trekking, V 5030 MSL***


# High-Speed Doors

**For optimised material flow and improved efficiency**

HÖRMANN



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Left: Loewe Logistics & Care, Herford

# 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 recognised high standard would not be possible.
**The best examples are the new speed sectional doors.**

### Precise production

Innovative production processes that have been matched perfectly with each other are a guarantee for steadily increasing product quality. An example: The modern hot air welding system that enables a precise and automated welding of the door curtains.


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-specialised factories develop and manufacture construction components that are characterised 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 organisation 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.

# Sustainable production

## For future-oriented construction




Find out more about Hörmann's environmental activities in the "We think green" brochure.

Only from Hörmann

## Sustainably produced: Hörmann's high-speed doors

**Ecological quality**
A comprehensive energy management system ensures environmentally-friendly production.

**Economic quality**
The use of high-quality materials and innovative technologies such as the FU controls as standard results in long service life and low maintenance costs.

**Functional quality**
High-speed doors are used both inside and as exterior doors to optimise the flow of traffic, improve indoor climate and save energy.

**Process quality**
The further use of single-origin metal and UPVC scraps from the production process saves material resources.

## Sustainability verified and documented by the IFT in Rosenheim

Hörmann is the only manufacturer who already received confirmation of the sustainability of all its high-speed doors through an environmental product declaration (EPD) in accordance with DIN ISO 14025 and prEN 15804 from the Institut für Fenstertechnik (ift – Institute of window technology) in Rosenheim. The inspection was based on the Product Category Rules (PCR) "Doors and Gates". Environmentally-friendly production was confirmed by a life-cycle analysis in accordance with DIN EN 14040 / 14044 for all high-speed doors.

## Sustainable construction with Hörmann competence

Hörmann has already been able to gain great expertise in sustainable construction through various projects. We also apply this know-how to support your projects.

## References for sustainable construction with Hörmann

ThyssenKrupp, Essen

dm logistics centre, Weilerswist

Immogate logistics centre, Munich

**Nordex-Forum, Hamburg**

**Unilever Hafen-City, Hamburg**

**Deutsche Börse, Eschborn**

**Opernturm, Frankfurt**

**Skyline-Tower, Munich**

**Prologis Pineham Sites, Sainsbury**

DGNB
Deutsche Gesellschaft für Nachhaltiges Bauen e.V.
German Sustainable Building Council

Institut Bauen und Umwelt e.V.

breeam

# Spiral doors and speed sectional doors

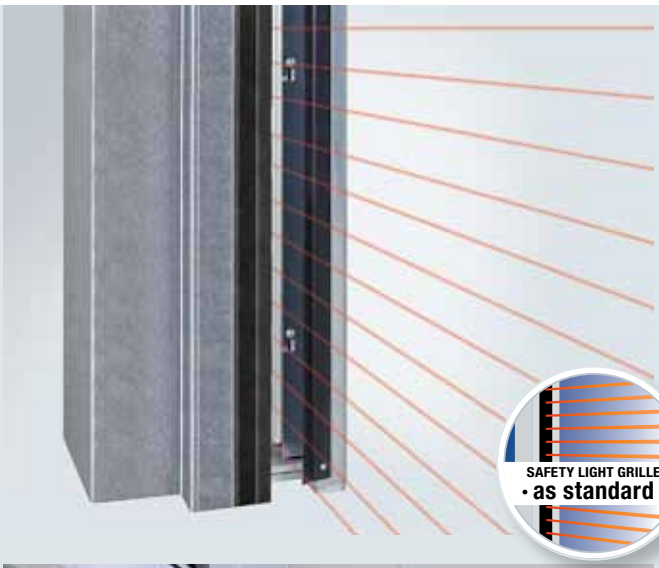
**Fast external doors with PU insulating panels for high thermal insulation**

Figure: spiral door HS 7030 PU

These doors are characterised by their high thermal insulation, fast opening speed and light grilles as standard. The hot-galvanized, double-skinned sections with an elegant Micrograin surface finish are guided into a spiral or into tracks without contact, depending on the version.

# 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 that 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 optimise 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.

### Uniformly foamed steel sections

The 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 aluminium (RAL 9006). The exterior is characterised by the fine Micrograin lines, on the interior the sections are Stucco-textured.

External view
with Micrograin surface finish


External view
of glazing

### Optional glazing

26-mm-thick DURATEC double glazing guarantees maximum scratch resistance and excellent thermal insulation values. An aluminium rail construction in natural finish E6 / EV 1 divides the glazing using stabilising intermediate spacers. DURATEC triple glazing is also available on request for even better thermal insulation.

* For 25 m² door surface

# 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 AS 500 FU E | |
| Max. opening speed | 1.5 – 2.5 m/s |
| Max. closing speed | 0.5 m/s |
| **Emergency opening / emergency closing** | |
| BK 150 FU E USV, 230 V (up to approx. 9 m² door surface) | |
| Hand chain with spring compensation | |
| **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 m² door size | $U_D$ = 1.95 W/(m²·K) |
| **Door leaf colours**** | |
| Available in over 200 colours based on RAL. | |

** 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 sectional door HS 5015 PU N

## With track application

NEW

**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 AS 500 FU E | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.5 m/s |
| **Emergency opening / emergency closing** | |
| BK 150 FU E USV, 230 V (up to approx. 9 m² door surface on request) | |
| Hand chain with spring compensation | |
| **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 m² door size | $U_D$ = 1.95 W/(m²·K) |
| **Door leaf colours**** | |
| Available in over 200 colours based on RAL. | |

** 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.

# Speed sectional door HS 5015 PU H

## With high-lift track application

NEW

**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 counter weights, the door is especially low-wear and long-lasting thanks to the belt mechanism.

| **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 AS 500 FU E | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.5 m/s |
| **Emergency opening / emergency closing** | |
| BK 150 FU E USV, 230 V (on request) | |
| Hand chain with counterbalance | |
| **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 m² door size | $U_D$ = 1.95 W/(m²·K) |
| **Door leaf colours**** | |
| Available in over 200 colours based on RAL. | |

** 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.

# Speed sectional door HS 6015 PU V

## With vertical track application

NEW

**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 counter weights 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 AS 500 FU E | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.5 m/s |
| **Emergency opening / emergency closing** | |
| BK 150 FU E USV, 230 V (up to approx. 20 m² door size) | |
| Hand chain with counterbalance | |
| **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 m² door size | $U_D$ = 1.95 W/(m²·K) |
| **Door leaf colours**** Available in over 200 colours based on RAL. | |

** 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.

# Flexible high-speed doors

**To improve indoor climate and optimise the flow of traffic**

Flexible high-speed doors from Hörmann have been designed for safe, efficient and lasting operation. A standard light grille does away with the need for additional installations, such as a closing edge safety device, making the door particularly easy to fit and service.


## Non-contact safety

The standard safety light grille (IP 67) 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 makes Hörmann high-speed doors especially easy to service and fit.


## 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 optimise your operations and reduce heat losses and draughts 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 downtimes of the door system. Extensive repairs, such as those with rigid bottom profiles, do not become necessary. SoftEdge ensures trouble-free operation and production processes.

SoftEdge bottom profile
with integrated radio crash switch

## Radio crash switch

The radio crash switch 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,** fulfilling the requirements of DIN EN 13241-1.

# High-speed doors

## As internal and external doors

# V 4015 SEL R

## Internal door with SoftEdge and tubular drive


**For logistics areas and supermarkets**
Storage shelves often do not permit a gearbox that protrudes on the side. Here, the high-speed door V 4015 SEL R with the tubular drive integrated in the door shaft is an optimum solution.

**Fully equipped**
The fast and quiet running of the door due to the standard frequency converter (FU) control, the safety light grille and the increased personal safety that results from the vertically flexible SoftEdge bottom profile with manual insertion make the door a safe internal door for areas with little space.

The shaft cover that is limited to the construction width is available in a galvanized version and, on request, in a powder-coated version based on RAL.

**Fitted quickly and simply**
To enable a quick fitting, the door shaft is already assembled with the tubular drive at the factory.

Standard shaft cover with standard emergency crank handle.

| Internal door | V 4015 SEL R |
|---|---|
| **Size range** | |
| Max. width (LDB) | 4000 mm |
| Max. height (LDH) | 4000 mm |
| **Speed** | |
| With standard FU control BK 150 FU E H | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.8 m/s |
| **Emergency opening** | |
| Crank handle<br>Optional: Automatic door opening via UPS in case of power failure (BK 150 FU E H UPS, 230 V) | |
| **Curtain** | |
| Spring steel in curtain pockets or aluminium profile (from 2500 mm door width) | |
| Fabric thickness | 1.5 mm |
| Vision panel thickness | 2.0 mm |
| **Curtain colours** | |
| RAL 1018 Zinc yellow<br>RAL 2004 Pure orange<br>RAL 3002 Carmine red<br>RAL 5010 Gentian blue<br>RAL 7038 Agate grey | |

***NEW***
***Emergency opening with crank handle***

# V 5015 SEL

## Internal door with SoftEdge and anti-crash



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

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

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

Curtain stability
with aluminium profiles

| Internal door | V 5015 SEL |
|---|---|
| **Size range** | |
| Max. width (LDB) | 5000 mm |
| Max. height (LDH) | 5000 mm |
| **Speed** | |
| With standard FU control BK 150 FU E H | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.8 m/s |
| **Emergency opening** | |
| Crank handle<br>Optional: Automatic door opening via UPS in case of power failure (BK 150 FU E H UPS, 230 V) | |
| **Curtain** | |
| With aluminium profile | |
| Fabric thickness | 1.5 mm |
| Vision panel thickness | 2.0 mm |
| **Curtain colours** | |
| RAL 1018 Zinc yellow<br>RAL 2004 Pure orange<br>RAL 3002 Carmine red<br>RAL 5010 Gentian blue<br>RAL 7038 Agate grey | |

# 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 draughts.

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 AS 500 FU E control.

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

**You can also optionally obtain the V 5030 SEL with aluminium bottom profile 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 FU E H | |
| Max. opening speed | 2.0 m/s |
| Max. closing speed | 0.8 m/s |
| Optional control AS 500 FU E | |
| Max. opening speed | 3.0 m/s |
| Max. closing speed | 0.8 m/s |
| **Emergency opening** | |
| Crank handle<br>Optional: Automatic door opening via UPS in case of power failure (BK 150 FU E H UPS, 230 V) | |
| **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 aluminium bottom profile | Class 1, max. 88 km/h |
| **Curtain colours** | |
| RAL 1018 Zinc yellow<br>RAL 2004 Pure orange<br>RAL 3002 Carmine red<br>RAL 5010 Gentian blue<br>RAL 7038 Agate grey | |

# V 6030 SEL

## Internal and external door with SoftEdge and anti-crash


**For highly-frequented transport routes, with crash-protection**
External doors are driven into, e.g. by forklifts, more frequently than internal doors. This is where crash-protection pays off because it significantly reduces downtimes and repair costs.

And the high speeds at which the door opens and closes also save 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.

You can also optionally obtain the V 6030 SEL with aluminium bottom profile.

Spring steel wind lock

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

| Internal door / external door | V 6030 SEL |
|---|---|
| **Size range** | |
| Max. width (LDB) | 5000 mm |
| Max. height (LDH) | 6000 mm |
| **Speed** | |
| With standard FU control BK 150 FU E H | |
| Max. opening speed | 2.0 m/s |
| Max. closing speed | 0.8 m/s |
| Optional control AS 500 FU E | |
| Max. opening speed | 3.0 m/s |
| Max. closing speed | 0.8 m/s |
| **Emergency opening** | |
| Crank handle<br>Optional: Automatic door opening via UPS in case of power failure (BK 150 FU E H UPS, 230 V), counter weights with back-up battery | |
| **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 colours** | |
| RAL 1018 Zinc yellow<br>RAL 2004 Pure orange<br>RAL 3002 Carmine red<br>RAL 5010 Gentian blue<br>RAL 7038 Agate grey | |

# 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 but also for an improved view in internal areas. The 4-mm-thick transparent curtain lets light into the room resulting in a pleasantly bright workplace.

If used as an external door, we recommend the heavy, partially transparent version.

**See what's coming at you**
Transport routes become safer through unimpeded visual contact. Fully transparent curtains are available in sizes up to 25 m²; from 25 m² only fabric curtains with an optional vision field.

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

Transparent for more incidence of light and unimpeded visual contact

Aluminium 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 FU E H (up to approx. 12.25 m² door size) | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.5 m/s |
| Optional FU control AS 500 FU E (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<br>Optional: Automatic door opening via UPS in case of power failure (BK 150 FU E H UPS, 230 V) (up to approx. 12.25 m² door size) | |
| **Curtain** | |
| Spring steel wind lock with lateral twin rollers and tensioning system | |
| Fully transparent curtain thickness | 4.0 mm |
| Fabric thickness | 2.4 mm (from 25 m² door size) |
| **Resistance to wind load** (EN 12424) | Class 3, max. 115 km/h |
| **Wind lock strip colours** | |
| RAL 1018 Zinc yellow<br>RAL 2004 Pure orange (optional fabric colour)<br>RAL 3002 Carmine red<br>RAL 5010 Gentian blue (optional fabric colour)<br>RAL 7038 Agate grey (optional fabric colour) | |

# V 9015 L Trekking

## Internal and external door for large openings

NEW


**Folding curtain with belt system**
The curtain is opened via a belt system with wind reinforcement laths and folded in the lintel area. The high-quality 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, additional sections can be transparent.

**Ideal for external fitting**
The V 9015 L Trekking was designed especially for high door openings in halls with little lintel space, since the door can also be fitted outside on the hall. The operator technology is safely protected in the frame and shaft cover. The control can optionally be operated simply and conveniently from the floor via an external control element integrated into the frame.

Integrated operator technology

Aluminium profiles stabilising the curtain

| Internal door / external door | V 9015 L Trekking |
|---|---|
| **Size range** | |
| Max. width (LDB) | 9000 mm |
| Max. height (LDH) | 6000 mm |
| **Speed** | |
| Relay control unit AK E as standard | |
| Max. opening speed | 0.7 m/s |
| Max. closing speed | 0.7 m/s |
| With optional FU control BK 150 FU E H | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.7 m/s |
| **Emergency opening** | |
| Emergency hand chain | |
| **Curtain** | |
| With aluminium profiles | |
| Fabric thickness | 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 colours** | |
| RAL 1018 Zinc yellow<br>RAL 2004 Pure orange<br>RAL 3002 Carmine red<br>RAL 5010 Gentian blue<br>RAL 7038 Agate grey | |

# 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 door travel and allow for higher wind loads. The number of wind locks is determined by the door size, wind load requirements and the fitting situation.

Spring steel wind lock

Especially wide side guide

| External door | V 10008 |
|---|---|
| **Size range** | |
| Max. width (LDB) | 10000 mm |
| Max. height (LDH) | 6250 mm |
| **Speed** | |
| With standard FU control AS 500 FU E (door width up to 6000 mm) | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.5 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 colours** | |
| RAL 1018 Zinc yellow<br>RAL 2004 Pure orange<br>RAL 3002 Carmine red<br>RAL 5010 Gentian blue<br>RAL 7038 Agate grey | |

# V 5030 MSL

## Internal door for protecting people and machines

*NEW*


**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 FU E H | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.8 m/s |
| **Emergency opening** | |
| Crank handle<br>Optional: Automatic door opening via UPS in case of power failure (BK 150 FU E H UPS, 230 V) | |
| **Curtain** | |
| With spring steel wind lock | |
| Fabric thickness | 1.5 mm |
| Vision panel thickness | 2.0 mm |
| **Curtain colours** | |
| RAL 1018 Zinc yellow<br>RAL 2004 Pure orange<br>RAL 3002 Carmine red<br>RAL 5010 Gentian blue<br>RAL 7038 Agate grey | |

# V 3015 RW

## Internal door with SoftEdge for rescue routes

**The internal door for rescue routes with decisive advantages**
Thanks to a SoftEdge profile with anti-crash system, these high-speed doors are especially safe and economical. People are better protected and damage and downtimes are avoided.

**Recommended for use in rescue routes**
**With certified qualification and official approval for individual cases, these high-speed doors can be integrated into rescue route planning.**

**Standard equipment**
Radar detector for advanced protection in the escape direction, emergency open button.

Radar detector in escape direction as standard

| Internal door | V 3015 RW |
|---|---|
| **Size range** | |
| Max. width (LDB) | 3000 mm |
| Max. height (LDH) | 3000 mm |
| **Speed** | |
| With standard FU control BS 150 FU E | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.8 m/s |
| **Anti-crash system** | |
| With automatic re-feed on both sides | |
| **Emergency opening** | |
| Counter weight with operating current brake | |
| **Curtain** | |
| With aluminium profile | |
| Fabric thickness | 1.5 mm |
| Vision panel thickness | 2.0 mm |
| **Curtain colours** | |
| RAL 1018 Zinc yellow | |
| RAL 2004 Pure orange | |
| RAL 3002 Carmine red | |
| RAL 5010 Gentian blue | |
| RAL 7038 Agate grey | |

# ISO Speed Cold

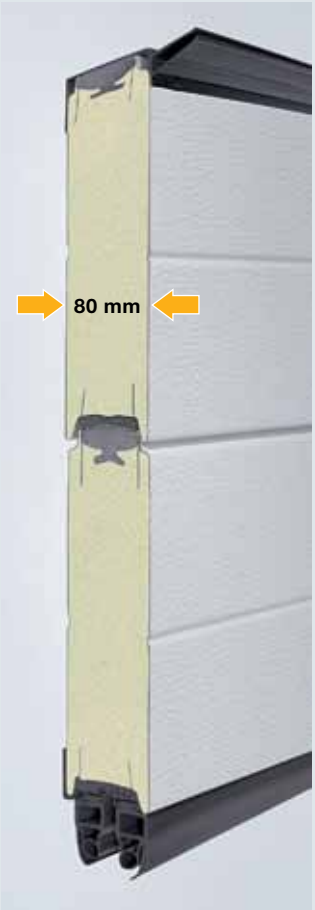
## Fast energy-saving cold store and deep freeze door

*Fitting in cold stores with track application V*


**Fast, airtight and extremely 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 steel sections in the ISO Speed Cold have thermal breaks separating the interior from the exterior. Additional lintel and bottom seals help to achieve an excellent thermal insulation value of $U_T = 0.3$ W/(m²·K).

**Exceptionally airtight**
The double-skinned door leaf is infilled with polyurethane rigid foam (PU). Thus it is exceptionally stable and attains exceptional insulation values in conjunction with the all-round sealing frame.




Sections with thermal break

| **Internal door** | **ISO Speed Cold** | |
|---|---|---|
| **Size range** | | |
| | Outside (cold store) | Inside (freezer) |
| Max. width (LDB) | 5000 mm | 4000 mm |
| Max. height (LDH) | 5000 mm | 4000 mm |
| **Speed** | | |
| With standard FU control | AS 500 FU E | |
| Max. opening speed | 2.0 m/s | |
| Max. closing speed | 0.5 m/s | |
| **Panel** | | |
| Foamed with polyurethane | | |
| Thickness | 80 mm | |
| **Emergency opening** | | |
| Counter weight | | |
| Emergency hand chain | | |
| **Thermal insulation** (EN 12424) | | |
| For 25 m² door size | $U_T = 0.3$ 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 | | |

# 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 $U_T = 1.2$ W/(m²·K) is achieved.

Wind lock


20-mm-thick insulated curtain

| 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 FU E H | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.5 m/s |
| **Emergency opening** | |
| Crank handle<br>Optional: Automatic door opening via UPS in case of power failure (BK 150 FU E H UPS, 230 V) | |
| **Curtain** | |
| PE foam<br>Thickness | 20 mm |
| **Thermal insulation** (EN 12424) | |
| For 25 m² door size | $U_T = 1.2$ 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 FU E H V2 A | |
| Max. opening speed | 1.2 m/s |
| Max. closing speed | 0.5 m/s |
| **Emergency opening** | |
| Optional: Automatic door opening via UPS in case of power failure (BS 150 FU E H V2 A UPS, 230 V) | |
| **Curtain** | |
| With spring steel in curtain pockets | |
| Fabric thickness | 1.5 mm |
| Vision panel thickness | 2.0 mm |
| **Curtain colours** | |
| RAL 1018 Zinc yellow | |
| RAL 2004 Pure orange | |
| RAL 3002 Carmine red | |
| RAL 5010 Gentian blue | |
| RAL 7038 Agate grey | |

# V 2012

## Internal door for supermarkets

**The completely equipped door**
Full equipment with operator and shaft cover, standard light grille and automatic emergency opening via a counter weight (in case of power failure) make this flexible plastic curtain door a safe choice for indoor areas with a high customer frequency.

**Anti-crash system with automatic start-up**
Thanks to a durable, light curtain and very flexible bottom part, this door is back in operation within seconds of a crash. This high level of flexibility does away with the need for a closing edge safety device.

**FU control**
With a standard FU control BK 150 FU E H the door achieves opening speeds of up to 1.2 m/sec.

**Curtain variants**
Anti-static fabric curtain, as standard without vision field. Available on request with an approx. 750 mm high vision panel from 1200 mm above FFL at no surcharge.

350-mm-high light grille concealed in the door guide

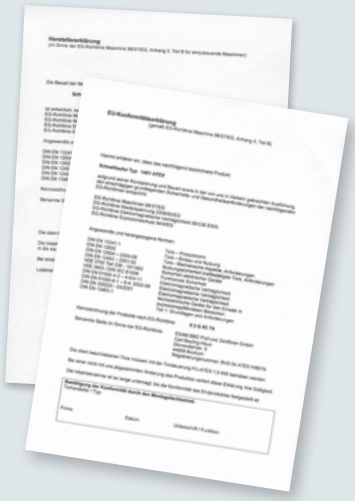
| Internal door | V 2012 |
|---|---|
| **Size range** | |
| Max. width (LDB) | 2500 mm |
| Max. height (LDH) | 2500 mm |
| **Speed** | |
| With standard FU control BK 150 FU E H | |
| Max. opening speed | 1.2 m/s |
| Max. closing speed | 0.5 m/s |
| **Emergency opening** | |
| Counter weight with operating current brake | |
| **Curtain** | |
| With spring steel in curtain pockets | |
| Fabric thickness | 1.5 mm |
| Vision panel thickness | 2.0 mm |
| **Curtain colours** | |
| RAL 1018 Zinc yellow | |
| RAL 2004 Pure orange | |
| RAL 3002 Carmine red | |
| RAL 5010 Gentian blue | |
| RAL 7038 Agate grey | |

# V 1401 ATEX

## Internal door for explosive areas

**V 1401 ATEX**
The high-speed door for explosive areas. Developed, designed and certified in accordance with the following directives: EC Explosion Protection 94 / 9 / EC and DIN EN 13463-1.

The control cabinet must always be fitted outside the Ex area.



| Internal door | V 1401 ATEX |
|---|---|
| **Size range** | |
| Max. width (LDB) | 4000 mm |
| Max. height (LDH) | 4000 mm |
| **Speed** | |
| With standard FU control BS 150 FU E | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.8 m/s |
| **Emergency opening** | |
| Crank handle | |
| **Curtain** | |
| With aluminium profile | |
| Fabric thickness | 1.5 mm |
| Vision panel thickness | 2.0 mm |
| **Curtain colours** | |
| RAL 1018 Zinc yellow | |
| RAL 2004 Pure orange | |
| RAL 3002 Carmine red | |
| RAL 5010 Gentian blue | |
| RAL 7038 Agate grey | |

# 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) and 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 BS 150 FU E H V2 A | |
| Max. opening speed | 1.5 m/s |
| Max. closing speed | 0.5 m/s |
| **Emergency opening** | |
| Crank handle<br>Optional:<br>Automatic door opening via UPS in case of power failure (BS 150 FU E H V2 A UPS, 230 V) | |
| **Curtain** | |
| With spring steel in curtain pockets | |
| Fully transparent curtain thickness | 4.0 mm |
| **Wind lock strip colours** | |
| RAL 1018 Zinc yellow<br>RAL 2004 Pure orange<br>RAL 3002 Carmine red<br>RAL 5010 Gentian blue<br>RAL 7038 Agate grey | |

# 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 draughts 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 Conveyor |
|---|---|
| **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 FU E H | |
| Max. opening speed | 1.2 m/s |
| Max. closing speed | 0.5 m/s |
| **Emergency opening** | |
| Crank handle | |
| **Curtain** | |
| With aluminium profile | |
| Fabric thickness | 1.5 mm |
| Vision panel thickness | 2.0 mm |
| **Curtain colours** | |
| RAL 1018 Zinc yellow | |
| RAL 2004 Pure orange | |
| RAL 3002 Carmine red | |
| RAL 5010 Gentian blue | |
| RAL 7038 Agate grey | |

# H 3530
## Fast horizontal door


**Opens quickly,**
**crashes virtually excluded**
Our quickest door for internal applications. The door leaves quickly open to the sides and immediately make the full passage height available. This guarantees fast traffic flow and increases safety, above all for personnel traffic. Despite the fast opening speed of 3 m/sec., soft start and stop are guaranteed by the frequency converter control, which reduces the door's wear.

Further benefits: Two opening widths can be programmed for personnel and vehicles. Closing edge safety devices and photocells provide additional safety. In the event of a malfunction, the door can quickly be opened with a hand pulley or automatically during a power failure by using an operating current brake (special equipment).

**The entire operator technology is arranged on the right**
in a space-saving manner in 3-sided cladding and only requires minimum headroom.

In the stainless steel version, the door fulfils the hygienic requirements of the food, chemical and pharmaceutical industries.

| Internal door | H 3530 |
|---|---|
| **Size range** | |
| Max. width (LDB) | 3500 mm |
| Max. height (LDH) | 3500 mm |
| **Speed** | |
| With standard FU control BK 150 FU E H | |
| Max. opening speed | 3.0 m/s |
| Max. closing speed | 1.0 m/s |
| **Emergency opening** | |
| Springs with pull cord | |
| Optional: Springs with operating current brake | |
| **Curtain** | |
| Fabric thickness | 1.5 mm |
| Vision panel thickness | 2.0 mm |
| **Wind lock strip colours** | |
| RAL 1018 Zinc yellow | |
| RAL 2004 Pure orange | |
| RAL 3002 Carmine red | |
| RAL 5010 Gentian blue | |
| RAL 7038 Agate grey | |

# 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

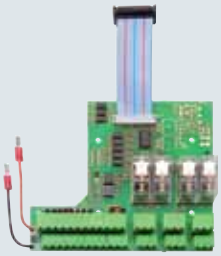
### Operation time monitoring

### Automatic timer (adjustable hold-open phase)

### Error display / diagnosis via a 4x 7-segment display

### Service operation setting

# FU controls



**BK 150 FU E H**
**FU control in plastic housing IP 54**
**single-phase, 230 V**

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

**Function**
Automatic timer,
hold-open phase adjustable,
safety light grille,
closing edge safety device (H 3530),
stop / reopen

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

**Extension options**
Main switch, traffic lights,
flashing warning light, locking,
intermediate stop,
extension PCB E FU H,
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

**Housing dimensions**
200 × 400 × 200

**Compatible door types**
V 4015 SEL R
V 5015 SEL
V 5030 SEL (up to 2 m/s)
V 6030 SEL (up to 2 m/s)
V 6020 TRL (up to 12.25 m²)
V 5030 MLS
V 2012
V 4015 ISO L
H 3530

**AS 500 FU E**
**FU control in steel 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,
hold-open phase adjustable,
safety light grille,
closing edge safety device
(V 10008, ISO Speed Cold),
stop / reopen

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

**Extension options**
Traffic lights, flashing warning light,
locking, intermediate stop,
extension PCB R FU X
stainless steel cabinet IP 65

**Wiring**
Connecting lead 3~400 V, N, PE,
fuse 20 A, slow-acting,
plug-in connection between door operator and control cabinet,
connecting lead cross section
5 × 2.5 mm² (depending
on national standards)

**Housing dimensions**
400 × 600 × 200

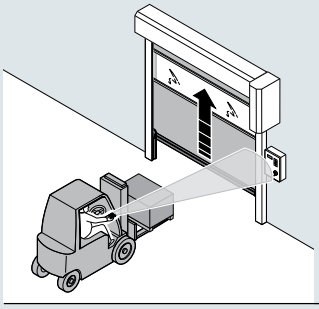
**Compatible door types**
HS 7030 PU
HS 5015 PU N
HS 5015 PU H
HS 6015 PU V
V 5030 SEL (up to 3 m/s)
V 6030 SEL (up to 3 m/s)
V 6020 TRL
V 10008
ISO Speed Cold

**E FU H / R FU X**
**Extension PCB for controls:**
**BK 150 FU E H (E FU H)**
**AS 500 FU E (R FU X)**

Lock controller,
4 additional switch outputs
(2 × 2 volt-free),
8 additional digital inputs

# Accessories

## Operating and controlling options



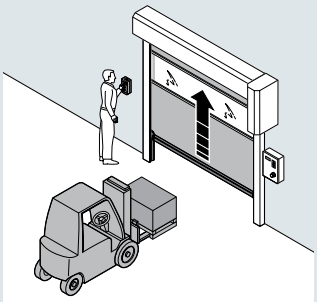
**Radio remote controls**

**4-button hand transmitter HS 4**

**1-button hand transmitter HS 1**

**Hand transmitter HSI**
For up to 999 doors
With large, clear display

**Receiver HER 1 (1-channel)**
with volt-free relay output
in a separate housing
without connecting lead
or **as a plug-in circuit board in the control cabinet**

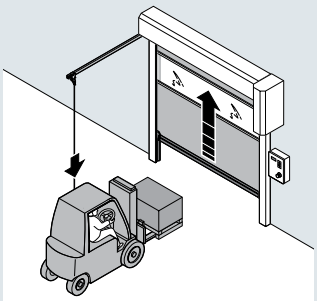


**Manually operated impulse generators**

**Push button**
2 ×
“Open / Close”
Plastic housing IP 65

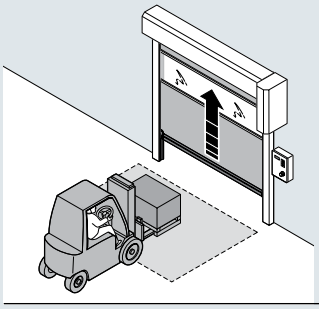
**Push button**
3 ×
“Open / Emergency-off / Close”
Plastic housing IP 65

**Mushroom button**
With large operating surface
Plastic housing IP 65



**Manually operated impulse generators**

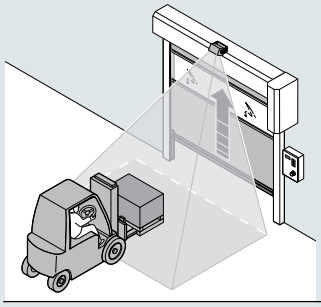
**Pull switch with plastic pull cord**
Horizontal or vertical fitting possible, aluminium die-cast housing IP 65, cord length 4 m



**Induction loops**

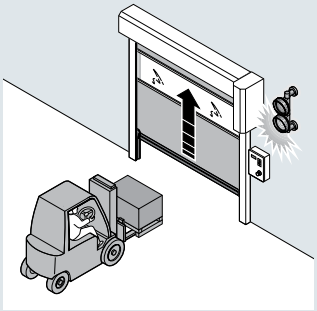
**Induction loop detector**
1 or 2-channel plug-in print suitable for two separate induction loops, supplied without loop cable

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



**Remote controls**

**Radar / presence detector Comfort**
Radar movement and presence detection with infrared detection, fast and targeted automatic door opening, reliable advance protection, up to a height of max. 6 m, in areas with high levels of humidity and in outside areas, only the radar function is available, housing: protection category IP 65



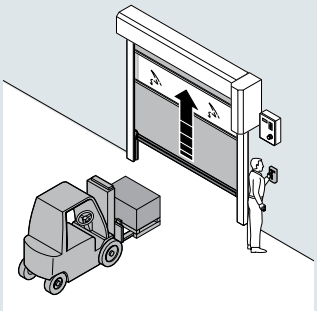
**Safety equipment**

**Warning light Ø 150 mm**
Red,
in plastic housing with mounting strap, IP 65

**Warning light Ø 150 mm**
Red, green,
in plastic housing, with fitting support, IP 65

**Rotating warning light**
Red or yellow,
in plastic housing, IP 54

**Flashing warning light**
Orange,
in plastic housing, IP 65



**Control elements**

**External control element** ***NEW*** from June 2013
For easy operation and programming, can be placed independent from the control, same control buttons as on the control as well as 4 × 7-segment display

# 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 |
| **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** | Double-skinned section thickness | |
| | Foamed door leaf | |
| **Door leaf material / surface** | Steel, RAL 9006 | |
| | Wet coating in RAL to choose | |
| | Aluminium rail window, anodised aluminium E6 / EV 1 | |
| **Glazing** | Double synthetic panes | |
| | Triple synthetic panes | |
| **Ventilation grille** | Ventilation cross section dependent on size / version (at least 30 %) | |
| **Operator and control** | Frequency converter control | |
| | Connecting voltage | 3-phase |
| | | 1-phase |
| | Open-Stop-Close button | |
| | Main switch, all-pole switch-off (1-phase / 3-phase) | |
| | 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** | Crank handle | |
| | Hand chain | |
| | Counter weight / spring | |
| | UPS in plastic cabinet (200 × 400 × 200) for FU control 230 V, 1-phase (up to 9 m² on request) | |
| **Volt-free contacts / impulse generator / safety devices** | | |

| Spiral Door | High-speed sectional doors | | |
|---|---|---|---|
| **HS 7030 PU** | **HS 5015 PU N** | **HS 5015 PU H** | **HS 6015 PU V** |
| ● | ● | ● | ● |
| ● | ● | ● | ● |
| 2.5 | 1.5 | 1.5 | 1.5 |
| 2.5 | 1.5 | 1.5 | 1.5 |
| 0.5 | 0.5 | 0.5 | 0.5 |
| ● | ● | ● | ● |
| Class 4 | Class 4 | Class 4 | Class 4 |
| Class 3 | Class 3 | Class 3 | Class 3 |
| 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) |
| 26 | 26 | 26 | 26 |
| 6500 | 5000 | 5000 | 6500 |
| 6000 | 5000 | 6000 | 6000 |
| | | | |
| – | – | – | – |
| ● | ● | ● | ● |
| 42 | 42 | 42 | 42 |
| ● | ● | ● | ● |
| ● | ● | ● | ● |
| ○ | ○ | ○ | ○ |
| ● | ● | ● | ● |
| ● | ● | ● | ● |
| ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | ○ |
| ● | ● | ● | ● |
| 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 |
| ● | ● | ● | ● |
| ● | ● | ● | ● |
| 20 A, slow-acting | 20 A, slow-acting | 20 A, slow-acting | 20 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 |
| ● | ● | ● | ● |
| ○ | ○ | ○ | ○ |
| – | – | – | – |
| ● | ● | ● | ● |
| – | – | – | – |
| ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | ○ |
| 1 – 200 | 1 – 200 | 1 – 200 | 1 – 200 |
| ● | ● | ● | ● |
| – | – | – | – |
| ● | ● | ● | ● |
| – / – | – / – | – / – | – / – |
| – | – | – | – |
| ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ |

● = Standard
○ = Optional

**Ckt.** = Characteristic
**WS** = Wind lock

**1)** = optional aluminium 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) LDB > 6000 mm | Max. opening speed, approx. m/s |
| | FU control (1-phase)<br>max. LDB × LDH (6000 × 6000 mm) | Max. opening speed, approx. m/s |
| | Contactor control (3-phase) | Max. opening speed, approx. m/sec. |
| | Relay control | Max. closing speed, approx. m/s |
| **Security features** | DIN EN 13241 | |
| **Resistance to wind load** | DIN EN 12424 | LDB > 6000 mm |
| **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 (< 25 mm²) / 2.4 / 4.0 mm |
| **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 | |
| | 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 (contactor) |
| | | 1-phase |
| | Protection category | Operator, 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 (internal) |
| | | Light grille |
| | Door area monitoring | Radar presence detector |
| | | Induction loop |
| | Hold-open phase in sec. | |
| | Electronic limit switch DES | |
| **Emergency opening** | 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 device** | | |

**Flexible high-speed doors**

| V 4015 SEL R | V 5015 SEL | V 5030 SEL | V 6030 SEL | V 6020 TRL | V 9015 L Trekking | V 10008 |
|---|---|---|---|---|---|---|
| ● | ● | ● | ● | ● | ● | ● |
| – | – | Wind protected **1)** | ● | ● | ● | ● |
| – | – | 3.0 | 3.0 | 1.5 | 1.5 | (0.8) / 1.5 |
| 1.2 | 1.5 | 2.0 | 2.0 | 1.5 | 1.0 | 1.5 |
| | | | – | – | 0.6 | – |
| 0.8 | 0.8 | 0.8 | 0.8 | 0.5 | 0.8 / (0.6) | 0.4 |
| ● | ● | ● | ● | ● | ● | ● |
| Class 0 | Class 0 | Class 0 / 1 with aluminium bottom profile | Class 2 | Class 2 | 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 | Class 0 | Class 0 |
| – | – | – | – | – | – | – |
| – | – | – | – | – | – | – |
| ● / – | ● / – | – / ● | – / ● | – / ● | ● / – | – / ● |
| 4000 **2)** | 5000 | 5000 | 5000 | 6000 | 9000 | 10000 |
| 4000 **2)** | 5000 | 5000 | 6000 | 7000 | 6000 | 6250 |
| | | | | | | |
| Crash-protection | 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 | 1 – 230 V, N, PE | – |
| ● | ● | ● | ● | ● | ● | ● |
| ○ / – | ○ / – | ○ / ● | ○ / ● | ○ / ● | ○ / ● | – / ● |
| – | – | 20 A, slow-acting | 20 A, slow-acting | 20 A, slow-acting | 20 A (10A), slow-acting | 20 A, 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 | 16 A, slow-acting |
| IP 54 | IP 54 | IP 54 | IP 54 | IP 54 | IP 54 | IP 54 |
| ○ | ○ | ○ | ● | ● | ● | ● |
| – | – | ● | ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | – | – | – | ● |
| ● | ● | ● | ● | ● | ● | – |
| ○ | ○ | ○ | ○ | ○ | ○ | (●) |
| ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 1 – 200 | 1 – 200 | 1 – 200 | 1 – 200 | 1 – 200 | 1 – 200 | 1 – 200 |
| ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | – |
| – | – | – | ○ | ○ | ○ | ● |
| – / – | – / – | – / – | ○ / – | – / – | – / – | – / – |
| ○ | ○ | ○ | ○ | ○ | ○ | – |
| ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ |

● = Standard
○ = Optional

**Ckt.** = Characteristic
**WS** = Wind lock

**1)** = optional aluminium 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 |
| **Security features** | DIN EN 13241 | |
| **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 | |
| | PE foam, 20 mm | |
| **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** | WU control | |
| | 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** | 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 device** | | |

**Flexible high-speed doors for special applications**

| V 5030 MSL | V 3015 RW | ISO Speed Cold | V 4015 ISO L | V 2515 Food L | V 2012 |
|---|---|---|---|---|---|
| ● | ● | ● | ● | ● | ● |
| – | – | ● | – | – | – |
| – | – | 2.0 | – | – | – |
| 1.5 | 1.5 | – | 1.5 | 1.2 | 1.2 |
| 0.8 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 |
| ● | ● | ● | ● | ● | ● |
| Class 0 | Class 0 | Class 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 | Class 0 | Class 0 | Class 0 |
| – | – | 0.3 W/(m²·K) | 1.9 W/(m²·K) | – | – |
| – / ● | ● / – | – / – | ● / – | – / ● | – / ● |
| 4000 | 3000 | 5000 | 4000 | 2500 | 2500 |
| 4000 | 3000 | 5000 | 4500 | 3000 | 2500 |
| | | | | | |
| – | Anti-crash | – | – | Anti-crash | Anti-crash |
| ● | ● | – | – | ● | ● |
| – | ● | ● | ● | ● | ● |
| ● | – | – | – | – | – |
| – | – | ● | – | – | – |
| – | – | – | ● | – | – |
| – | – | – | – | – | – |
| ● | ● | ● | ● | – | ● |
| ○ | ○ | ○ | ○ | – | ○ |
| ○ | ○ | ○ | ○ | ● | ○ |
| ○ | ○ | – | ○ | – | ● |
| ○ | ○ | – | – | (●) | – |
| – | – | – | (○) | – | – |
| ● | ● | ● | ● | ● | ● |
| 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 |
| ● | ● | ● | ● | ● | ● |
| ○ / ● | ● / – | – / ● | ○ / – | ● / – | – / – |
| 20 A, slow-acting | – | 20 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 | – | – |
| ● | ● | ○ | ○ | ○ | ○ |
| – | With spiral cable | ● | – | – | – |
| ● | – | – | ● | ● | – |
| ○ | (●) | (●) | – | ○ | – |
| ○ | ○ | ○ | ○ | ○ | ● |
| ○ | ○ | ○ | ○ | ○ | ○ |
| ○ | ○ | ○ | ○ | ○ | ○ |
| 1 – 200 | 1 – 200 | 1 – 200 | 1 – 200 | 1 – 200 | 1 – 200 |
| ● | ● | ● | ● | ● | ● |
| ● | – | ● | ● | – | – |
| – | – | ○ | – | – | – |
| – / – | ● / – | ● / – | – / – | – / – | ● / – |
| ○ | – | – | ○ | ○ | – |
| ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ | ○ / ○ / ○ |

● = Standard
○ = Optional

**Ckt.** = Characteristic
**WS** = Wind lock

# Overview of door types

## Construction and quality features

● = Standard
○ = Optional

| | | |
|---|---|---|
| **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 |
| **Security features** | DIN EN 13241 | |
| **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 | |
| | Polished stainless steel V2 A | |
| **Shaft / operator cover** | Straight | |
| | 30° chamfered (5°) | |
| **Operator and control** | WU control | |
| | 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** | 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 device** | | |

**Flexible high-speed doors for special applications**

| V 3015 CLEAN | V 3009 Conveyor | V 1401 ATEX | HT 3530 |
|---|---|---|---|
| ● | ● | ● | ● |
| – | – | – | – |
| – | – | – | – |
| 1.5 | (AKE 0.8) | 1.4 | 3.0 |
| 0.5 | (AKE 0.8) | 0.5 | 1.0 |
| ● | ● | ● | ● |
| Class 0 | Class 0 | Class 0 | Class 0 |
| Class 0 | Class 0 | Class 0 | Class 0 |
| Class 0 | Class 0 | Class 0 | Class 0 |
| – | – | – | – |
| – / ● | ● / – | ● / – | – / – |
| 2500 | 3000 | 4000 | 3500 |
| 3000 | 3000 | 4000 | 3500 |
| | | | |
| – | – | – | – |
| ● | ● | ● | – |
| – | ● | ● | ● |
| ● | – | – | – |
| – | – | – | ● |
| – | ● | ● | ● |
| – | ○ | ○ | ○ |
| ● | ○ | ○ | ○ |
| – | ○ | ○ | ● |
| (●) | ○ | ○ | ○ |
| – | ● | – | – |
| ● | ○ | ● | ● |
| – | – | – | – |
| 1 – 230 V, N, PE | 1 – 230 V, N, PE | 1 – 230 V, N, PE | 1 – 230 V, N, PE |
| ● | ● | ● | ● |
| ○ / – | ○ / – | ● / – | ○ / – |
| – | – | – | – |
| 16 A, slow-acting | 10 A (16 A, slow-acting / FU) | 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 for your construction project

**1 Sectional doors**
These space-saving door systems can be adapted to different industrial facilities using various track applications. Hörmann offers you tailored solutions for every application.

**2 Rolling shutters and rolling grilles**
Thanks to a simple construction with just a few components, rolling shutters are both economical and sturdy. Hörmann supplies rolling shutters in widths and heights of up to 11.75 m and 9 m respectively, or as special doors which are even higher.

**3 High-speed doors**
Hörmann high-speed doors are used both inside and as exterior doors to optimise the flow of traffic, improve room conditions and save energy. The Hörmann programme includes vertically and horizontally opening transparent doors with flexible curtains.

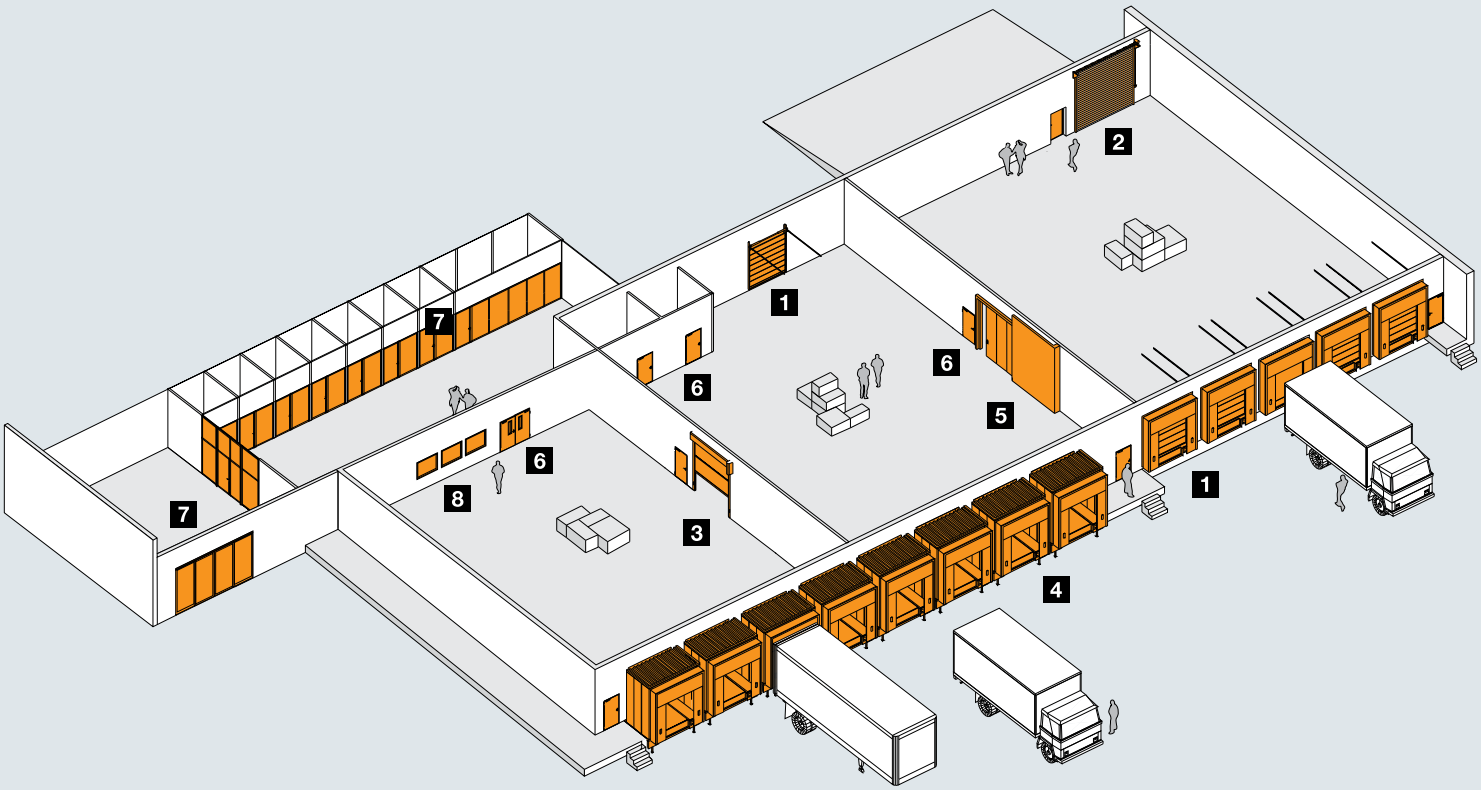
**4 Loading technology**
Hörmann offers you complete loading systems for the logistics sector. The advantages: reliable planning, dependable execution of construction work and high functionality thanks to precisely matched components.

**5 Fire sliding doors**
Hörmann can provide you with single or double-leaf sliding door solutions suitable for all areas and required fire protection classes.

**6 Multi-function doors and reinforced internal doors**
Hörmann multi-function doors and reinforced internal doors are suitable for indoor and outdoor use. Our single and double-leaf doors can be used wherever robust door elements are required. With numerous additional functions, such as fire and smoke protection, acoustic insulation or burglar protection.

**7 Box frame parts**
For areas in which appearance is important, such as administrative buildings, Hörmann offers you fire and smoke protection doors as well as steel and aluminium fixed glazing and automatic sliding doors, also suited for special fire protection requirements.

**8 Visibility windows**
Hörmann visibility glazings are used as windows or room-high elements to provide more light and better visibility.



**Quick service with testing, maintenance and repairs**
Our extensive service network means that we are always nearby and at your service around the clock.

1



2



3


4



5


6



7


8


# Hörmann: Quality without Compromise


Hörmann KG Amshausen, Germany


Hörmann KG Antriebstechnik, Germany


Hörmann KG Brandis, Germany


Hörmann KG Brockhagen, Germany


Hörmann KG Dissen, Germany


Hörmann KG Eckelhausen, Germany


Hörmann KG Freisen, Germany


Hörmann KG Ichtershausen, Germany


Hörmann KG Werne, Germany


Hörmann Genk NV, Belgium


Hörmann Alkmaar B.V., Netherlands


Hörmann Legnica Sp. z o.o., Poland


Hörmann Beijing, China


Hörmann Tianjin, China


Hörmann LLC, Montgomery IL, USA


Hörmann Flexon, Leetsdale PA, USA

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

**GARAGE DOORS**

**OPERATORS**

**INDUSTRIAL DOORS**

**LOADING EQUIPMENT**

**HINGED DOORS**

**DOOR FRAMES**

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