



# High-speed doors

NEW: High-speed folding doors for high wind loads,  
large door openings and low temperatures

**HÖRMANN**





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Subject to changes. The doors shown are example applications – no guarantee.

Image on left: Brückner Textile Technologies in Tittmoning with Hörmann products

# Hörmann brand quality

Reliable and oriented towards the future



## In-house product development

Highly-qualified technicians are constantly working on further developing and improving our products in order to meet the demands of the market. This results in economic high-speed door designs of the highest standard.



## Precise production

Innovative production processes that have been matched perfectly with each other are a guarantee for steadily increasing product quality. Modern welding systems enable precise and automated welding of the door curtains.



As Europe's leading manufacturer of 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.



**Certified safety**  
Hörmann high-speed doors are manufactured in line with stringent European standards and are, of course, certified.



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 support 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](http://www.hoermann.com)



### Efficient service

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

# Sustainably produced

## For future-oriented construction



### **Sustainability verified and documented by ift Rosenheim**

Hörmann has received confirmation of the sustainability of all its high-speed doors through an environmental product declaration (EPD) according to DIN ISO 14025 and EN 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 ISO 14040 / 14044 for all high-speed doors.

### **Sustainably produced: Hörmann high-speed doors**

#### **Ecological quality**

Environmentally-friendly production through a comprehensive energy management system

#### **Economical quality**

A long service life and low maintenance costs thanks to the use of high-quality materials

#### **Process quality**

Sustainable production processes through optimised material use

### **Sustainable construction with Hörmann's expertise**

Hörmann has been able to gain great expertise in sustainable construction through various projects. We also apply this know-how to support your projects. Another advantage: For every project order, the required data for LEED certification is automatically generated.

# Simple and sustainable planning

With the Hörmann Architects' Program and energy savings compass



## The Architects' Program

More than 9000 drawings for over 850 products

Planning with Hörmann products is now even easier thanks to a modern, user-friendly interface. Clearly structured navigation via drop-down menus and symbols, as well as a search function, provide faster access to texts for invitation to tenders and drawings (in DWG and PDF format) of over 850 Hörmann products. **In addition, BIM data can be provided for many products for the Building Information Modelling process, enabling efficient planning, drafting, construction and management of buildings.** Photos and photo-realistic presentations provide additional information on many products.



The Architects' Program is available to you as a web version at [www.hoermann.co.uk/forums/architects-forum/architects-program](http://www.hoermann.co.uk/forums/architects-forum/architects-program) or can be downloaded free-of-charge from the Hörmann Architects' Forum.

## The energy savings compass for sustainable planning

Hörmann's energy savings compass shows how industrial door systems and loading technology are planned with energy-efficiency and sustainability in mind. An integrated calculation module estimates the amortisation period for door and loading technology systems.

The energy savings compass is available as a web-based interface for PC / MAC and mobile end devices.



Plan with the energy savings compass at:  
[https://www.hoermann.co.uk/fileadmin/\\_country/UK/Energiesparkompass/Energy\\_savings\\_compass/ml\\_eskSCALEframe.html](https://www.hoermann.co.uk/fileadmin/_country/UK/Energiesparkompass/Energy_savings_compass/ml_eskSCALEframe.html)



We are a member of the professional association for digital building products in the Federal Association of Building Systems e.V.

# Spiral doors and high-speed sectional doors

With insulating sections for a high thermal insulation





## Optimised processes

The high opening and closing speeds of spiral and high-speed sectional doors optimise work processes and significantly accelerate logistics processes. Depending on the version, the galvanized, double-skinned sections are guided into a spiral or into tracks.

## Excellent thermal insulation

The sturdy steel sections of the doors have thermal breaks and are PU-foamed. As a result you benefit from excellent thermal values of up to  $0.64 \text{ W}/(\text{m}^2 \cdot \text{K})$  and minimise energy loss. For the special requirements in cold and refrigeration logistics, high-speed doors with 100-mm-thick sections are the first choice.

## Reliable safety

High speeds require special safety precautions. The solution: a standard light grille that is protected inside the side elements of the door. The door's closing zone is monitored here without any contact – and up to a height of 2500 mm.

# Good reasons to try Hörmann

Quality features of spiral doors and high-speed sectional doors



# 1

## Safety as standard

# 2

## Optimised and monitored door function

### Non-contact safety

Safety light curtains integrated into the side elements monitor the closing zone of the door leaf up to a height of 2500 mm and ensure compliance with **safety requirements according to DIN EN 13241-1**. The minimal spacing of the light beams of only 45 mm ensures reliable function and increased safety. The **gentle soft stop function** slowly stops the door in the event an obstacle is detected with a sufficient remaining travel distance. This door is also **especially easy to fit and service** as no additional installations (such as a closing edge safety device or photocell) are required on the door.

**Separate diagnosis of the individual light beams and automatic end-of-travel position correction** make for fewer service visits.

### Long service life and high efficiency

The standard frequency converter control takes stress off the entire mechanical door elements, guaranteeing **nearly wear-free, quiet door travel**. High opening and closing speeds **optimise your operations and reduce heat loss**.

### Door function monitoring via the online portal

With the **SmartControl**, you or your service partner can use a **web browser to perform a technical analysis of the doors, at any time and worldwide, with all important information**, such as error messages or door cycles. **This reduces the costs involved with service visits** and allows them to be planned efficiently. In addition, in many cases errors in the operator control can be corrected via online access.

For further information, see pages 58 – 59.

**Glazing beads facilitate the exchange of individual panes**



**3**

**RC 2 security as standard**

Industrial doors with RC 2 security equipment withstand an attack using tools such as screwdrivers, pliers and wedges for a total of three minutes. Usually this is too long for burglars, so they generally stop their criminal act. **Spiral door HS 7030 PU 42 is tested and certified to resistance class RC 2** in accordance with the new standard DIN/TS 18194. This door secures the hall at night, featuring door opening speeds of up to 2.5 m/s by day.



**4**

**A permanently clear view**

**Optional glazing**

Duratec glazing guarantees maximum scratch resistance despite heavy use in rough industrial environments. The special surface coating **protects the pane from scratches and damage caused by cleaning.**

For 67 mm insulated doors, you receive the aluminium glazing frames with thermal break with triple glazing. We deliver 42 mm insulated doors with double glazing.



The glazing beads on the inside allow defective panes to be exchanged easily and quickly.

# Spiral doors and high-speed sectional doors

With insulating sections for a high thermal insulation



## The compact spiral track application

By guiding the sections in a spiral console, the doors can be used on the facade as internal and external doors. The new version HS 5012 PU S with narrow side elements also allows fitting in confined spaces in the building.

## The space-saving track application N (normal)

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





**NEW**  
**Spiral door HS 7030 PU 42 with certified RC 2  
break-in resistance as standard**



**The adjustable H (high-lift) and V (vertical) track applications**  
These allow the door to be fitted behind or above supply lines, for example. Door travel is supported by low-wear counter weights.

**For cold store and deep freeze areas**  
The 100 mm thick sections of the Iso Speed Cold 100 reliably separate areas with high temperature differences.



# Spiral doors and high-speed sectional doors

## Section versions

### 42 mm steel sandwich section with thermal break

The 42 mm thick PU foamed steel sections are particularly robust and offer excellent thermal insulation which can be further improved with an optional ThermoFrame.

### 67 mm steel sandwich section with thermal break

For higher thermal insulation requirements we recommend the 67 mm thick sections with a thermal insulation value of up to  $0.64 \text{ W}/(\text{m}^2\cdot\text{K})$ . The optional ThermoFrame also improves the thermal insulation for this version by up to 15% (for  $25 \text{ m}^2$  door surface).

### Acoustic sections

For the special requirements of acoustic insulation, the Acoustic high-speed doors are equipped with aluminium hollow profiles. The hollow profiles are filled with 5 mm PVC and 30 mm PU foam.

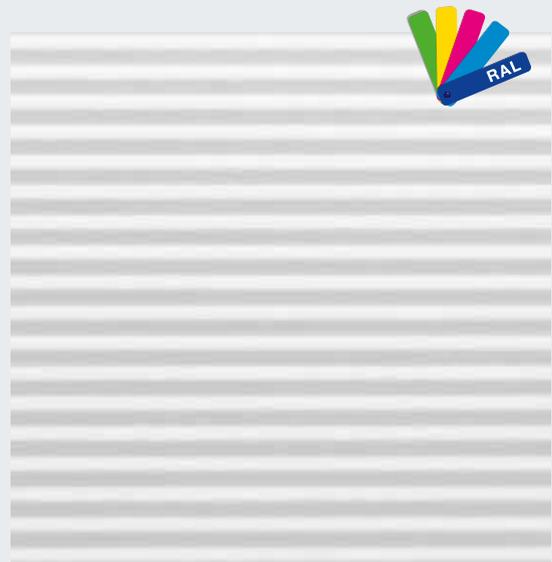
### Surface finishes and colours

The 42 and 67 mm thick sections are delivered with elegant Micrograin surface on the exterior and Stucco surface on the interior – exterior and interior are White aluminium based on RAL 9006 as standard.

Optionally, we supply all door leaves in over 200 colours based on RAL.



Double-skinned steel sandwich sections with thermal break in the thicknesses 42 and 67 mm, as well as acoustic section



Micrograin surface finish, on exterior for 42 and 67 mm sections

## Equipment features

### Door leaf

Construction	Steel sandwich, PU-foamed	Steel sandwich, PU-foamed	Aluminium hollow profile, 5 mm PVC / 30 mm PU
Depth (mm)	42	67	42
Section height (mm)	250	375	225
Exterior/interior surface	Micrograin / Stucco	Micrograin / Stucco	smooth
Standard colour	RAL 9006	RAL 9006	C0 anodised
ThermoFrame	○	○	-
Duratec glazing, double	○	-	-
Duratec glazing, triple	○	○	-

### Resistance to wind load (EN 12424)

Door width ≤ 5000 mm	Class 5	Class 5	Class 4
Door width > 5000 mm ≤ 6000 mm	Class 4	Class 4	
Door width > 6000 mm	Class 2	Class 2	

### Resistance to water penetration (EN 12425)

Class 1	Class 2
---------	---------

### Air permeability (EN 12426)

Class 2	Class 2
---------	---------

### Acoustic insulation (EN 717-1, EN ISO 10140-1, EN ISO 10140-2) without glazing

R = dB	26	26	31
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### Thermal insulation (EN 13241-1, ISO 12567-1) door size 4000 x 4000 mm, without glazing with ThermoFrame

U-value in W/(m <sup>2</sup> ·K)	1,04	0,64
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### Emergency opening / emergency closing

Emergency hand chain	●	●	●
Automatic door opening via UPS in case of power failure (up to approx. 9 m <sup>2</sup> door surface)	○*	-	-

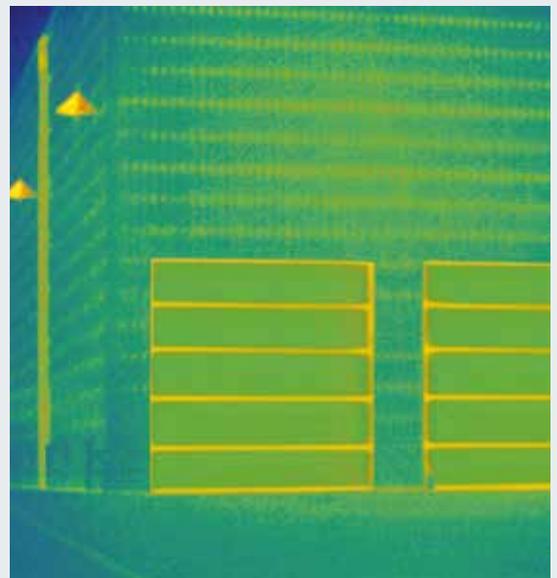
● = Standard ○ = Optional

\* Not for HS 5012 PU 42 S

All colours based on RAL

## Increased thermal insulation thanks to ThermoFrame

Well-insulated high-speed doors are essential in heated halls. The ThermoFrame separates the side element from the building structure. The thermal break along with additional seals improves thermal insulation by up to 15% and is easy and quick to fit. The ThermoFrame is optionally available for doors with 42 mm and 67 mm thick sections.



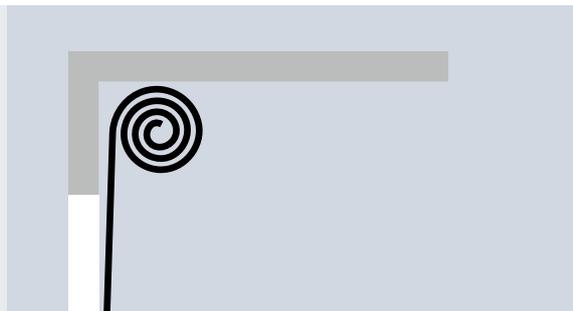
# Spiral doors and high-speed sectional doors

## Track applications for every fitting situation

### The compact spiral track application

The sections are securely guided into a spiral bracket without any contact. With the high-performance frequency converter control (FU) the door reaches an opening speed of up to 2.5 m/s.

The spiral door HS 7030 PU 42 with chain mechanism and spring compensation can also be fitted externally.

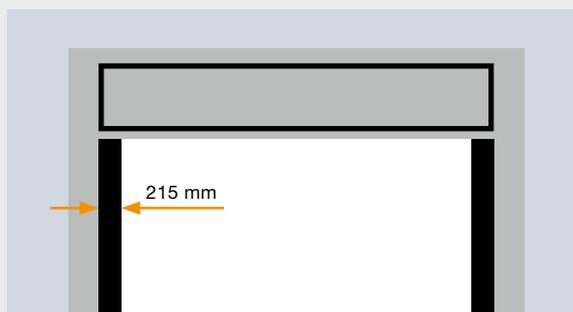


Spiral track application

### Spiral track application with narrow side elements

The new spiral door with 215 mm instead of 330 mm narrow side elements allows for fitting even in confined spaces.

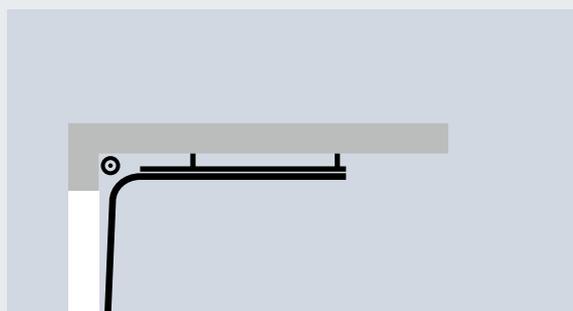
The newly developed operator does not require counterbalance. Your double advantage: low purchase price and low service and maintenance costs!



Spiral track application with narrow side elements

### The space-saving track application N

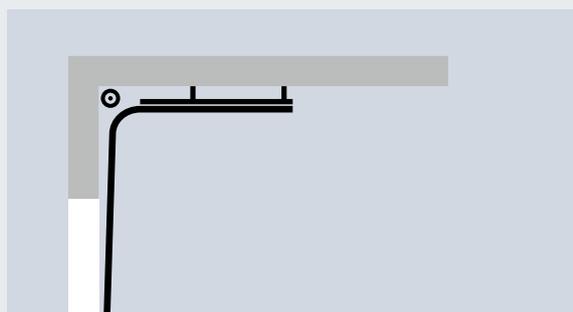
We recommend this track application for tight spaces in the lintel area. A chain mechanism with spring compensation runs the sections into horizontal tracks. This requires a low headroom of 480 mm.



Track application N (normal)

### The adjustable track application H

The sections are guided into horizontal tracks and can be diverted 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 durable.



Track application H (high-lift)

### The wear-free track application V

The sections run vertically along the hall wall. That is why the door movements are very quiet and wear-free. The belt mechanism with counter weights guarantees a long service life with constant use.



Track application V (vertical)



## Equipment features

Door hardware	Spiral track application	Spiral track application	Track application N (normal)	Track application H (high-lift)	Track application V (vertical)
<b>42 mm steel sandwich section, PU-foamed, with thermal break</b>					
Door type	<b>HS 7030 PU 42</b>	<b>HS 5012 PU 42 S</b>	<b>HS 5015 PU N 42</b>	<b>HS 5015 PU H 42</b>	<b>HS 6015 PU V 42</b>
Max. width (mm)	8000	5000	5000	5000	6500
Max. height (mm)	6500	5000	6500	6500	6500
Min. required headroom (mm)	920	920	480	750	LDH + 585
Max. opening (m/s)	1.2 – 2.5	1,2	1.5 – 2.5	1.5 – 2.5	1.5 – 2.5
Closing approx. (m/s)	0,5	0,5	0,5	0,5	0,5
<b>67 mm steel sandwich section, PU-foamed, with thermal break</b>					
Door type				<b>HS 5015 PU H 67</b>	<b>HS 6015 PU V 67</b>
Max. width (mm)				5000	6500
Max. height (mm)				6500	6500
Min. required headroom (mm)				950	LDH + 735
Max. opening (m/s)				1.5 – 2.5	1.5 – 2.5
Closing approx. (m/s)				0,5	0,5
<b>42 mm aluminium hollow profile, filled with 5 mm PVC and 30 mm PU foam</b>					
Door type	<b>HS 7030 Acoustic</b>			<b>HS 5015 Acoustic H</b>	<b>HS 6015 Acoustic V</b>
Max. width (mm)	5000			5000	5000
Max. height (mm)	5000			5000	5000
Min. required headroom (mm)	1000			1000	1000
Max. opening (m/s)	1.5 – 2.5			1.5 – 2.5	1.5 – 2.5
Closing approx. (m/s)	0,5			0,5	0,5
<b>Break-in resistance RC 2</b>					
acc. to DIN/TS 18194	●*				
<b>Counterbalance</b>					
Chain mechanism and springs	●		●		
Belt mechanism and counter weights	■*			●	●
without counterbalance		●			

● = Standard ○ = Optional ■ = Standard up to 5000 mm width and 5000 mm height LDH = clear passage height

\* Only for HS 7030 PU 42

## HS 7030 PU 42 Counterbalance via counter weights // NEW

- Up to 5000 mm width or 5000 mm height as standard
- Reduced operating noise due to quiet door travel
- Service-friendly thanks to less required maintenance
- Reduced wear (in comparison to counterbalance via springs)

# High-speed sectional door Iso Speed Cold 100

Down to  $-28\text{ }^{\circ}\text{C}$  as a cold store and deep freeze door

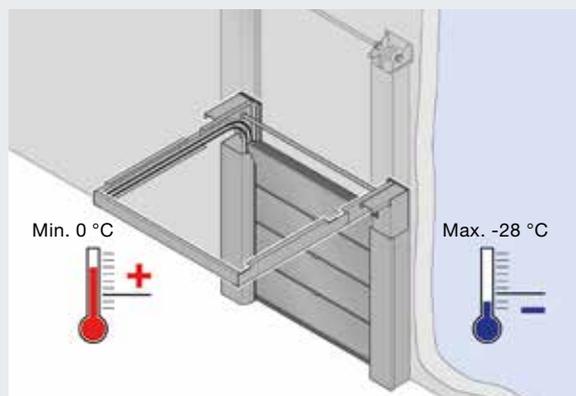
## Iso Speed Cold 100

The Iso Speed Cold 100 with its 100-mm-thick sections with thermal break offers excellent insulation with a U-value of  $0.50\text{ W}/(\text{m}^2\text{K})^*$ . Doors with a high-lift H or vertical-lift V door leaf are perfectly suited to refrigerated and cold store areas. The sections come Stucco-textured on the interior and exterior, in Grey white based on RAL 9002, optionally also in 200 colours based on RAL.

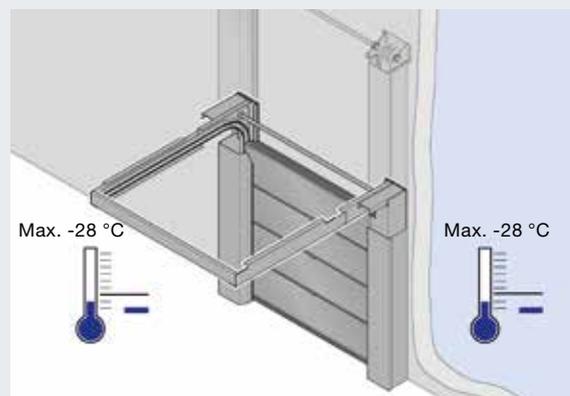


The Stucco-textured surface of the 100-mm-thick steel sandwich sections is extremely robust.

## Temperature ranges



Fitting side  $> 0\text{ }^{\circ}\text{C}$ , opposite side to max.  $-28\text{ }^{\circ}\text{C}$   
(track application H and V)

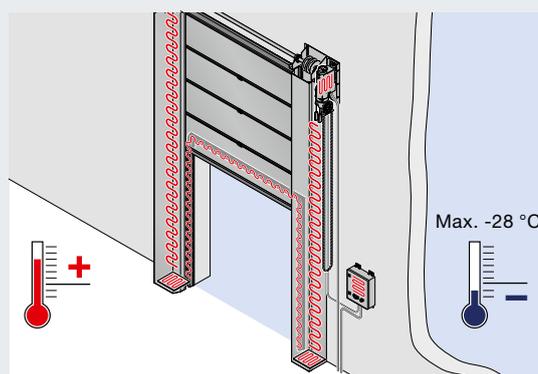


Fitting side  $0\text{ }^{\circ}\text{C}$  up to max.  $-28\text{ }^{\circ}\text{C}$ , opposite side  $0\text{ }^{\circ}\text{C}$   
to max.  $-28\text{ }^{\circ}\text{C}$  (track application H and V)

## Heating as standard

For safe and reliable operation

- Heated side elements and bottom plate
- Heated operator
- Heated control housing
- Heated sealing frame





**Excellent thermal insulation with a U-value of up to 0.50 W/(m<sup>2</sup>·K)**

## Equipment features

Door type	Iso Speed Cold H 100	Iso Speed Cold V 100
<b>Door hardware</b>	Track application H (high-lift)	Track application V (vertical)
<b>Counterbalance</b> Belt mechanism	●	●
<b>Size range</b>		
Max. width (mm)	5000	5000
Max. height (mm)	5000	5000
Min. required headroom (mm)	750	LDH + 585
Max. opening (m/s)	1.5 – 2.0	1.5 – 2.0
Closing approx. (m/s)	0,5	0,5
<b>Temperature range **</b>	Fitting side > 0 °C, opposite side max. -28 °C Fitting side 0 °C to max. -28 °C, opposite side 0 °C to max. -28 °C	
<b>Resistance to wind load</b> (EN 12424)	Class 5	Class 5
<b>Resistance to water penetration</b> (EN 12425)	Class 3	Class 3
<b>Air permeability</b> (EN 12426)	Class 3	Class 3
<b>Thermal insulation</b> (EN 13241-1, Appendix B EN 12428)		
Door surface (fitted door)	U-value in W/(m <sup>2</sup> ·K)	U-value in W/(m <sup>2</sup> ·K)
2000 × 2000	0,90	0,90
3000 × 3000	0,68	0,68
4000 × 4000	0,57	0,57
5000 × 5000	0,50	0,50
Section	0,24	0,24

\* For a door surface of 4000 × 4000 mm

\*\* Deviating temperatures on request

# High-speed sectional door Iso Speed Cold 100

## Standard equipment

### 1 Long-lasting door construction

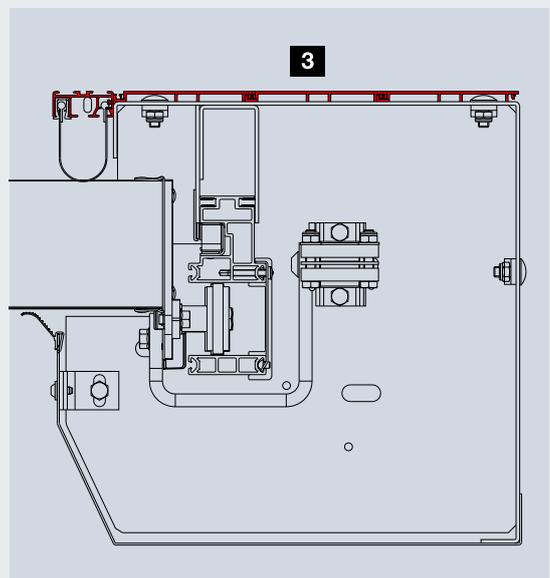
By using extremely durable flat belts, which are also used in the elevator industry, we guarantee a service life of up to 500000 cycles when fitted properly. Operator support via counter weights also convinces with lower maintenance costs, as no springs have to be serviced.

### 2 Frequency converter control

High opening and closing speeds guarantee optimised workflows and temperature levels between the cold store and other temperature areas. The soft start and soft stop take stress off the mechanical door elements, enabling nearly wear-free, quiet door travel. This greatly extends the service life of the door.

### 3 ThermoFrame

The ThermoFrame separates the side element from the building structure. The thermal break along with additional seals improves thermal insulation and prevents thermal bridges.



# High-speed sectional door Iso Speed Cold 100

## On-site services

### 1 Connecting lead for heating

The standard heating in the side frames remains active even when the door main switch is actuated, preventing icing. A second electric cable to the door is required to supply the heating with power.

### 2 Floor heating system

A floor heating system effectively prevents the door leaf from freezing. This system is required in the door closing zone to cover the entire opening area of the door and the frame depth, as well as approx. another 200 mm.

### 3 Air curtain

An air curtain minimises the temperature increase in the cold store area. It is installed on the warmer side to effectively reduce the flow of air to the cold side of the opening.

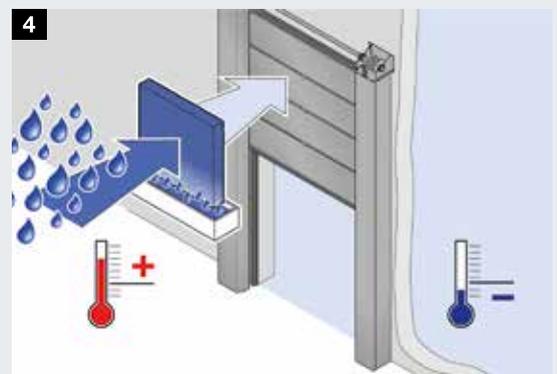
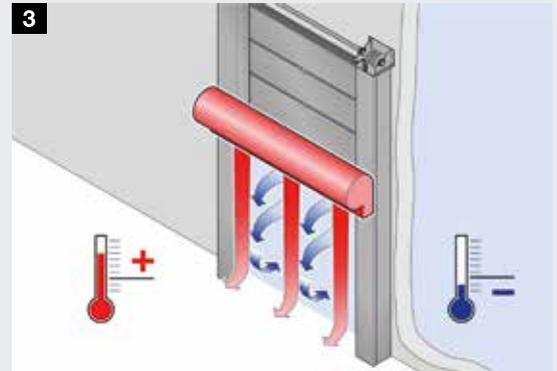
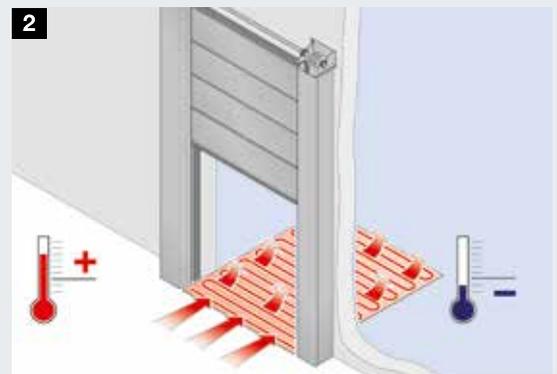
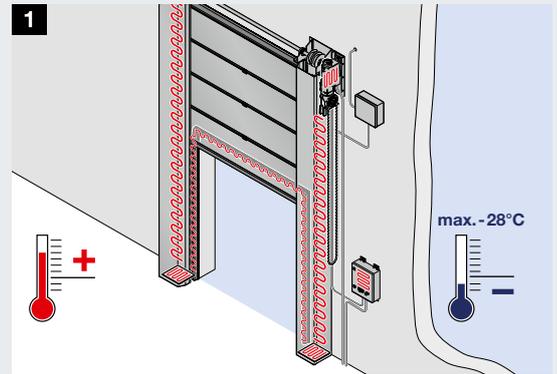
#### TIP:

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

### 4 Air dehumidifier

For effective reduction of humidity in case of high temperature differences and high humidity, we recommend fitting an air dehumidifier on the warmer side to minimise ice formation in the cold store area.

**Please contact the responsible Hörmann regional sales office, providing information on temperatures and humidity, for a precise assessment of the fitting situation.**



# High-speed doors with flexible door leaf

Internal and external doors





## Advantages that are worthwhile

Flexible high-speed doors speed up workflows and reduce energy costs. They feature safe door operation and a long service life thanks to standard equipment with an FU control, safety light curtain and SoftEdge bottom profile. In fact, they offer even more benefits: flexible high-speed doors are low-maintenance, easy to fit, cost-efficient and therefore economical for daily use.

## Inexpensive solution for interior use

Thanks to the high opening and closing speeds, heat losses on the door as well as draughts at the workplace are noticeably reduced, resulting in less work absences due to illness.

## Robust solution for external use

Flexible high-speed doors help you effectively reduce your energy losses even for external door openings, as well as draughts on the doors. External doors can withstand even high wind loads without any problems.

## Individual solutions

Various demands require individual door solutions. Based on our expert know-how, we develop customer-specific solutions for special application areas such as conveyor systems, the food industry, clean rooms, cooling zones or for machine safety.

# Good reasons to try Hörmann

## Quality features of the flexible high-speed doors



# 1

## Safety as standard

### Non-contact safety

Safety light curtains\* integrated into the side elements monitor the closing zone of the door leaf up to a height of 2500 mm and ensure compliance with **safety requirements according to DIN EN 13241-1**. The minimal spacing of the light beams of only 45 mm ensures reliable function and increased safety. The **gentle soft stop function** slowly stops the door in the event an obstacle is detected with a sufficient remaining travel distance. This door is also **especially easy to fit and service** as no additional installations (such as a closing edge safety device or photocell) are required on the door. **Separate diagnosis of the individual light beams and automatic end-of-travel position correction** make for fewer service visits.

\* V3010 with photocell as standard

# 2

## Optimised and monitored door function

### Long service life and high efficiency

The frequency converter control takes stress off the entire door mechanism, guaranteeing **nearly wear-free, quiet door travel**. High opening and closing speeds **optimise your operations and reduce heat loss**.

### Door function monitoring via the online portal

With the **SmartControl**, you or your service partner can use a **web browser to perform a technical analysis of the doors, at any time and worldwide, with all important information**, such as error messages or door cycles. **This reduces the costs involved with service visits** and allows them to be planned efficiently. In addition, in many cases errors in the operator control can be corrected via online access.

For further information, see pages 58 – 59.

**Particularly easy to fit and service as standard**



# 3

## Practical solutions

### **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 door profiles, usually do not become necessary. **SoftEdge ensures trouble-free operation and production processes.**



Take a look at the video “No downtimes resulting from a crash thanks to the SoftEdge bottom profile” at: [www.hoermann.de/mediacenter](http://www.hoermann.de/mediacenter)

# 4

## Innovative details

### **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 during 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. It pays to compare!

# High-speed doors with flexible door leaf

## Internal door V 4015 SEL Alu-R with innovative tubular drive and aluminium side elements

### Door type V 4015 SEL Alu-R

Thanks to its powerful, innovative tubular drive, the compact high speed door is ideal for fitting situations in tight spaces. In addition, the standard light grille and the SoftEdge profile make it safe and economical.



### V 4015 SEL Alu-R Airtight **// NEW**

Thanks to the additional sealing lips, the V 4015 SEL Alu-R Airtight is the ideal solution for differential pressures up to 30 Pa. The door is also ideal as an air lock for oxygen-reduced areas, as can often be found in high bay warehouses today.





**Easy to fit and service**

The shaft cover is divided and can be easily opened, even if there is little space in the lintel area. The connection cables to the control are guided out of the frame through a variable outlet (top or side).



**Compact design**

The elegant, narrow aluminium side elements only require a low sideroom of 145 mm. The door curtain is particularly well sealed thanks to the very small gap dimension and lip seals.

# High-speed doors with flexible door leaf

## Internal door V 4015 SEL Alu-R with innovative tubular drive and aluminium side elements

### Door type V 4015 SEL Alu-R

Thanks to the anodised aluminium surface finish of the side elements and top plates, the standard shaft cover in White aluminium RAL 9006, the integrated wiring and few visible screw fittings, **the door is very elegant and can also be used in areas with customer traffic.** The door is equipped with a light grille and SoftEdge profile for a high level of safety and cost-effectiveness.

The light grille stops the door immediately if a person or vehicle is in the door opening.

**The flexible SoftEdge profile prevents downtime due to damage to the door system.** You can also optionally obtain the V 4015 SEL Alu-R with aluminium bottom profile for wind class 1 (DIN EN 12424).

**The door is fully sealed thanks to the very small gap dimensions of side elements and lip seals.** The high-speed door is particularly suitable for narrow fitting situations in high frequency areas thanks to the narrow side elements and the powerful tubular drive.

If the control has to be fitted in the top section due to space limitations, an optional control element can be elegantly integrated into the side frame. **The control element allows for the operation of all control functions** such as opening and closing as well as service settings.

### Door type V 4015 SEL Alu-R Airtight // NEW

An additional sealing lip in the cladding minimises pressure loss in rooms with differential pressures up to 30 Pa. Inspection openings in the cladding facilitate door service and maintenance.



**Stable curtain**  
Thanks to stabilising spring steel wind lock



**Optional fly-protection curtain**  
instead of the vision field



**Convenient operation**  
With optional control element (80 x 120 mm) for integration in the side frame at a height of 1300 mm



**Powerful**  
With tubular drive for up to 700000 door cycles in high use areas



**High tightness**  
Due to a small frame gap dimension and lip seals



## Equipment features

Door type	V 4015 SEL Alu-R	V 4015 SEL Alu-R Airtight // NEW
<b>Suitable application</b>	Interior	Interior
<b>Size range</b>		
Max. width (mm)	4000	4000
Max. height (mm)	4000	4000
<b>Speed</b>		
Max. opening (m/s)	1,5	1,5
Closing approx. (m/s)	0,8	0,8
<b>Control</b>		
Standard	BK 150 FU E-1	BK 150 FU E-1
<b>Temperature range</b>	+5 °C to +40 °C	+5 °C to +40 °C
<b>Curtain</b>	PVC, with spring steel wind locks and lateral twin rollers	PVC, with spring steel wind locks and lateral twin rollers
Fabric thickness (mm)	1,5	1,5
Vision field thickness (mm)	2,0	2,0
Fly-protection section	○	○
<b>Curtain colours</b>		
Standard colours	●	●
Preferred colours // NEW	○	○
<b>Emergency opening</b>		
Automatic door opening via UPS in case of power failure	○	○

● = Standard ○ = Optional

All colours based on RAL

### Standard colours



RAL 1018  
Zinc yellow



RAL 2004  
Pure orange



RAL 3002  
Carmine red



RAL 5010  
Gentian blue



RAL 7038  
Agate grey



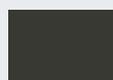
RAL 6024  
Traffic green



RAL 7012  
Basalt grey



RAL 7016  
Anthracite grey



RAL 7022  
Umbra grey



RAL 7024  
Graphite grey

### Preferred colours // NEW

# High-speed doors with flexible door leaf

## Internal doors with drive belt operator and integrated control

### Door type V 3010 // NEW

This cost-effective entry-level door is designed for retail and logistics companies that value space-saving door solutions. Thanks to the compact construction with integrated control, shelving systems can be placed right up to the frame. As standard, the door is equipped with barrel and frame cladding as well as a motor cover. The drive belt makes the operator especially compact, quiet and maintenance-friendly. A photocell with two light beams ensures reliable function and safety.

#### Service-friendly integrated control

The entire control, including the control elements, is integrated in the side frame, saving space. During installation and service, the panel can simply be tilted forwards, providing easy access to all the components.

#### No downtimes resulting from a crash

In the event of a crash, the floor rail of the curtain is forced out of the black PE side guides. The curtain is then automatically reinserted and the door can be operated again.

#### Easy fitting

The self-supporting construction can also be fitted in tight spaces without any particular structural requirements. In addition, the construction is pre-assembled up to 80%, saving time during fitting.

#### Individual designs

The V 3010 is available in 5 standard and 6 special colours, as well as with individual printing over the entire surface.

#### Stainless steel version

For hygienic areas in the food industry, the door is also available in stainless steel and with external control AK E 370 M (IP 65, jet-water protected).



1 x PVC curtain with optional window elements



Individually printed curtain (optional)



Space-saving, integrated control including button in the frame



Service-friendly opening of the integrated control



See the short film at:  
[www.hormann.co.uk/videos](http://www.hormann.co.uk/videos)

## Equipment features

<b>Door type</b>	<b>V 3010 // NEW</b>
<b>Suitable application</b>	Interior
<b>Size range</b>	
Max. width (mm)	3000
Max. height (mm)	3000
<b>Speed</b>	
Max. opening (m/s)	1,0
Closing approx. (m/s)	1,0
<b>Controls</b>	
Standard	AK E 370 M-I
Optional	AK E 370 M, BK 370 M FUE-1
<b>Photocell</b>	●
<b>Temperature range</b>	+5 °C to +40 °C
<b>Curtain</b>	PVC, fibreglass composite material
Fabric thickness (mm)	1,0
Vision field	○
<b>Curtain colours</b>	
Standard colours	●
Special colours	○
<b>Side element colours</b>	
Galvanized	●
Standard colours, coated	○
Special colours, coated	○
Stainless steel	○

● = Standard ○ = Optional

### Standard colours

										
RAL 1018 Zinc yellow	RAL 2004 Pure orange	RAL 3002 Carmine red	RAL 5010 Gentian blue	RAL 7038 Agate grey	RAL 1015 Light ivory	RAL 5015 Sky blue	RAL 6026 Opal green	RAL 7016 Anthracite grey	RAL 9005 Jet black	RAL 9010 Pure white

### Special colours

# High-speed doors with flexible door leaf

## Internal doors with SoftEdge and anti-crash



### Door type V 5030 SEL

The spring steel wind locks increase the curtain stability and withstand stronger draughts.



**Door type V 4008 SEL // NEW**

This especially cost-effective internal door is ideal for areas without draughts and is equipped with a SoftEdge bottom profile, radio crash switch and safety light curtain as standard.

**Door type V 5015 SEL**

The proven door for draught-free areas: the aluminium profiles allow the curtain segments to be quickly and inexpensively replaced in case of repair.



# High-speed doors with flexible door leaf

## Internal doors with SoftEdge and anti-crash

### Door type V 4008 SEL // NEW

This especially cost-effective internal door is ideal for areas without draughts and is equipped with an AK E control. The standard safety equipment with SoftEdge, radio crash switch and safety light curtain in the closing edge zone offers maximum safety in day-to-day operation.

### Door type V 5015 SEL

The internal door for areas without draught comes with safety functions such as SoftEdge and light grille as standard. The aluminium wind lock also makes the door particularly service-friendly, since curtain segments can be quickly replaced if repairs are necessary. For an improved view the curtain is also available with two transparent curtain sections.

### Door type V 5030 SEL

Draughts always pose a particular challenge for doors. With the robust wind locks made of spring steel, the V 5030 SEL remains stable under small pull and wind loads. You can also optionally obtain the V 5030 SEL with aluminium bottom profile for wind class 1 (DIN EN 12424).



**V 4008 SEL // NEW**  
Without vision fields



**V 4008 SEL // NEW**  
With vision field



**V 5015 SEL**  
Curtain stability with aluminium profiles



**V 5015 SEL**  
Optional fly-protection curtain instead of the vision field



**V 5030 SEL**  
Spring steel wind lock for quiet door travel



**V 5030 SEL**  
Optional fly-protection curtain instead of the vision field



## V 5030 SEL

Optional with aluminium  
bottom profile for wind class 1

### Equipment features

Door type	V 4008 SEL // NEW	V 5015 SEL	V 5030 SEL
<b>Suitable application</b>	Interior	Interior	Interior
<b>Size range</b>			
Max. width (mm)	4000	5000	5000
Max. height (mm)	4000	5000	5000
<b>Speed</b>			
Max. opening (m/s)	0,8	1,5	2,0
Closing approx. (m/s)	0,8	0,8	0,8
<b>Control</b>			
Standard	AKE light	BK 150 FU E-1	BK 150 FU E-1
<b>Temperature range</b>	+5 °C to +40 °C	+5 °C to +40 °C	+5 °C to +40 °C
<b>Curtain</b>	PVC, curtain slides	PVC, aluminium profiles	PVC, spring steel wind locks with lateral twin rollers
Fabric thickness (mm)	1,5	1,5	1,5
Vision field thickness (mm)	2,0	2,0	2,0
Aluminium bottom weather seal for wind class 1	-	-	○
Fly-protection section	-	○	○
<b>Curtain colours</b>			
Standard colours	●	●	●
Preferred colours // NEW	○	○	○
<b>Emergency opening</b>			
Emergency crank handle	●	●	●
Emergency hand chain	-	○	○
Automatic door opening via UPS in case of power failure	-	○	○

● = Standard ○ = Optional

All colours based on RAL

### Standard colours



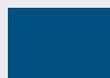
RAL 1018  
Zinc yellow



RAL 2004  
Pure orange



RAL 3002  
Carmine red



RAL 5010  
Gentian blue



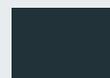
RAL 7038  
Agate grey



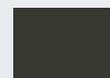
RAL 6024  
Traffic green



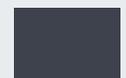
RAL 7012  
Basalt grey



RAL 7016  
Anthracite grey



RAL 7022  
Umbra grey

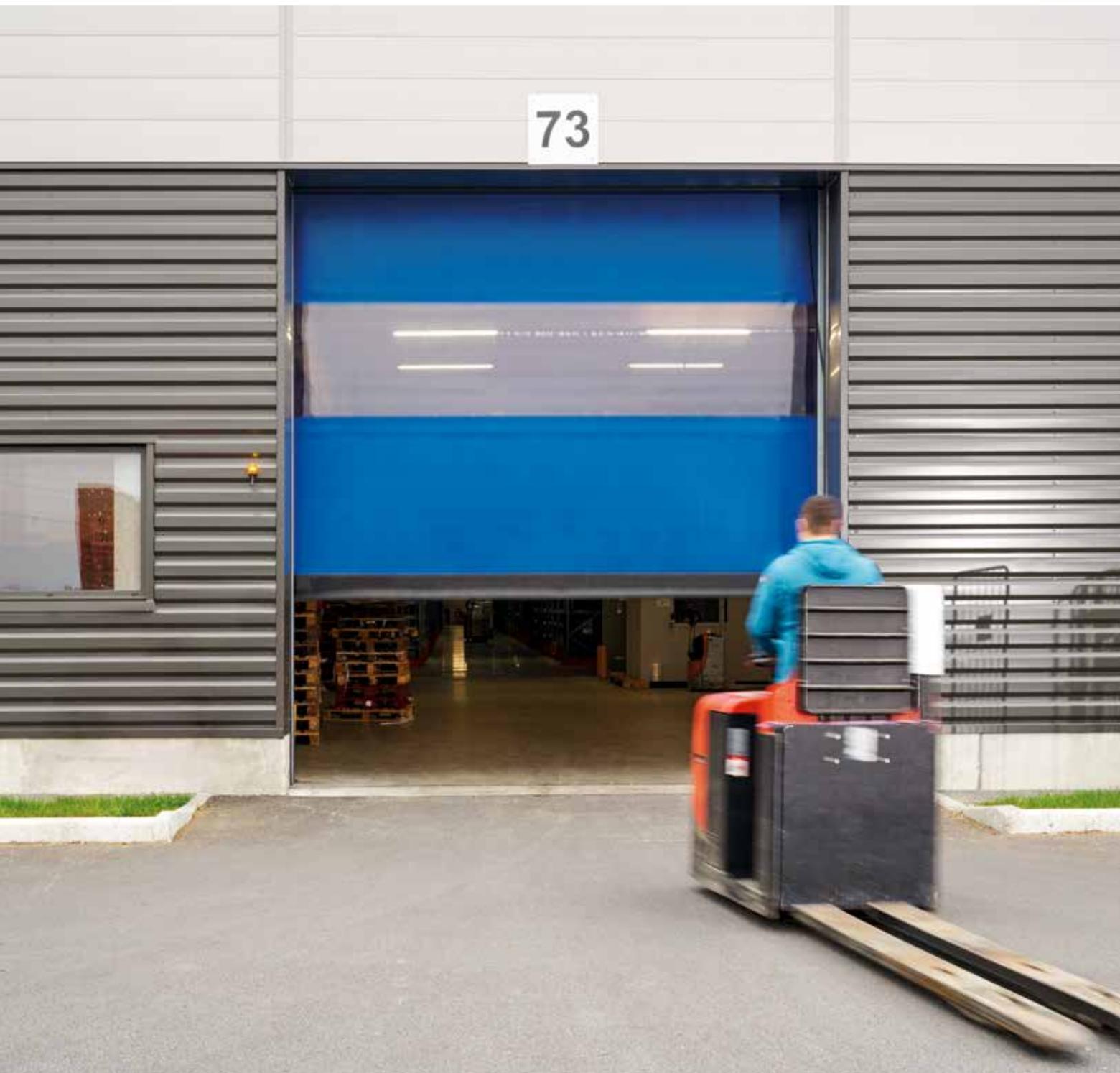


RAL 7024  
Graphite grey

### Preferred colours // NEW

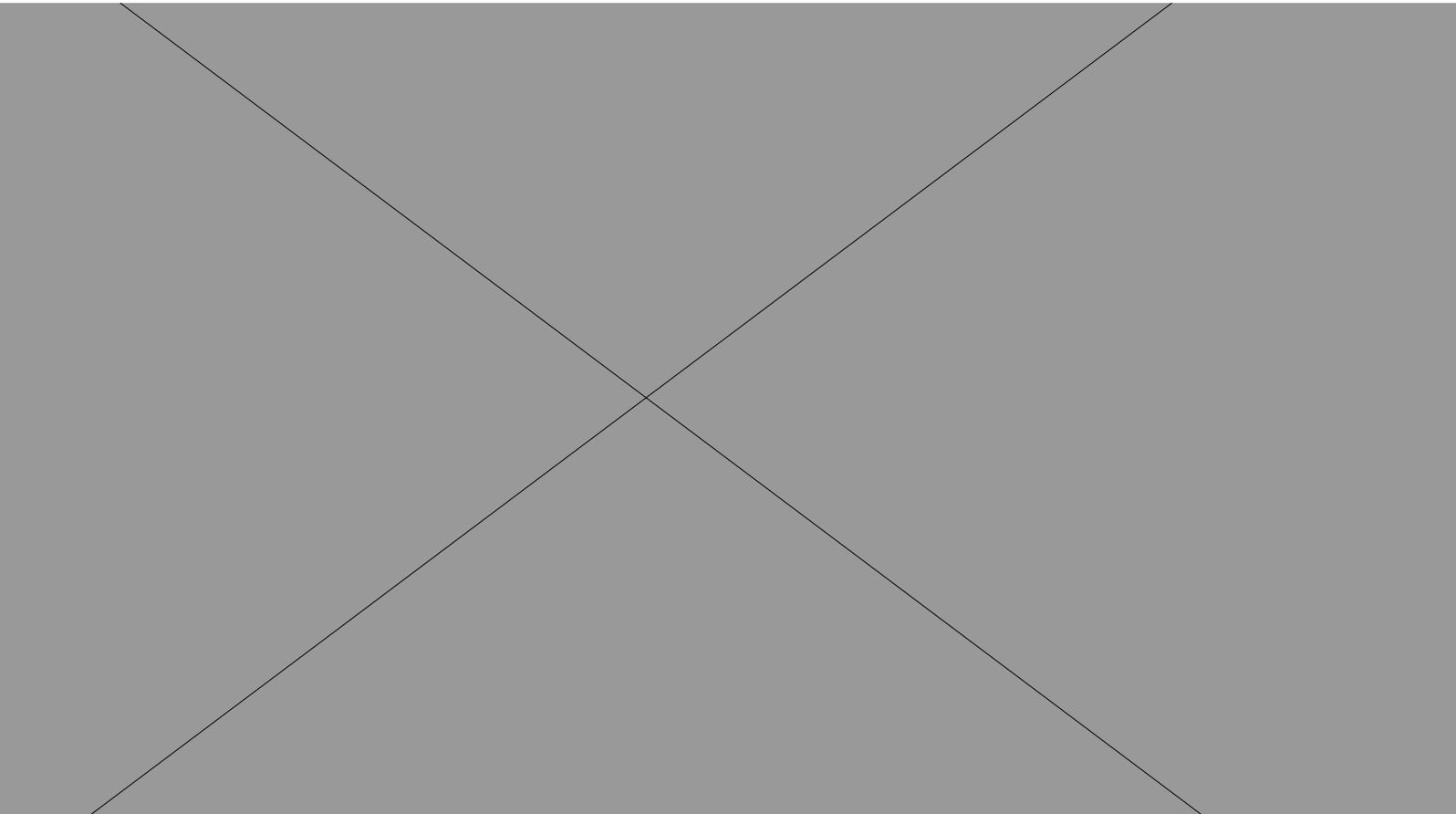
# High-speed doors with flexible door leaf

Internal and external doors



## Door type V 6030 SEL

The particularly robust SoftEdge profile is specifically designed for outside use.



**Door type V 6020 TRL**

The 4-mm-thick, transparent door curtain allows light to pass through and protects against surprises during transport.

**Door type V 10008**

The V 10008 was specifically developed for large openings and high wind loads of up to 100 km/h.



# High-speed doors with flexible door leaf

## Internal and external doors

### Door type V 6030 SEL

When the SoftEdge door is used outside, collision damage in everyday work generally does not have any serious effects. Pull and wind loads do not pose problems thanks to the spring steel wind lock. You can also optionally obtain the V 6030 SEL with aluminium bottom profile.

### Door type V 6020 TRL

The 4-mm-thick, transparent door curtain allows light to pass through and protects against surprises during transport. Optionally, the curtain is available in coloured fabric material, with or without vision field. From a door surface of 25 m<sup>2</sup>, we supply the curtain in a coloured fabric material with vision field as standard.

### Door type V 10008

The external door was specifically developed for large openings and high wind loads. Double lashing straps, lateral twin rollers and especially wide side guides ensure safe door travel even with a high door curtain weight. The spring steel wind locks also allow for wind loads of up to 100 km/h.



**V 6030 SEL**

Stabilising spring steel wind lock with optional fly-protection curtain **NEW**



**V 6030 SEL**

Tensioning system for reliable door travel



**V 6020 TRL**

Transparent curtain for more light and visual contact



**V 6020 TRL**

Optional fabric curtain with vision field (also available without vision field)



**V 10008**

Stabilising spring steel wind lock



**For external doors we recommend using a wind monitor**

## Equipment features

Door type	V 6030 SEL	V 6020 TRL	V 10008
<b>Suitable application</b>	Interior / exterior	Interior / exterior	Interior / exterior
<b>Size range</b>			
Max. width (mm)	5000	6000	10000
Max. height (mm)	6000	7000	6250
<b>Speed</b>			
Max. opening (m/s)	2,0	2,0	1.5 (0.8) <sup>3)</sup>
Closing approx. (m/s)	0,8	0,5	0,4
<b>Control</b>			
Standard	BK 150 FU E-1	BK 150 FU E-1 <sup>1)</sup> AK 500 FUE-1 <sup>2)</sup>	AK 500 FUE-1
<b>Resistance to wind load (EN 12424)</b>			
Door width ≤ 4000 mm	Class 2	Class 2	Class 4
Door width > 4000 mm ≤ 5000 mm	Class 2	Class 2	Class 3
Door width > 5000 mm		Class 2	Class 2
<b>Temperature range</b> (deviating temperatures on request)	+5 °C to +40 °C	+5 °C to +40 °C	+5 °C to +40 °C
<b>Curtain</b>	PVC, spring steel wind locks with lateral twin rollers and tensioning system	PVC, spring steel wind locks with lateral twin rollers and tensioning system	PVC, spring steel wind locks with lateral twin rollers and double tensioning system
Fabric thickness (mm)	1,5	2,4	1,5
Vision field thickness (mm)	2,0	4,0	2,0
Fully transparent curtain (mm)		4,0	
Fly-protection section	○	–	–
<b>Curtain colours</b>			
Standard colours	●	● <sup>4)</sup>	●
Preferred colours <b>// NEW</b>	○	○	○
<b>Emergency opening</b>			
Emergency crank handle	●	●	–
Emergency hand chain	○	○	●
Automatic door opening via UPS in case of power failure	○	○	–

● = Standard ○ = Optional

All colours based on RAL

<sup>1)</sup> Up to 95 kg

<sup>2)</sup> From 95 kg

<sup>3)</sup> From 6000 mm door width

<sup>4)</sup> Wind lock strips and / or fabric colour (RAL 1018, RAL 3002 only for wind lock strips)

### Standard colours



RAL 1018  
Zinc yellow



RAL 2004  
Pure orange



RAL 3002  
Carmine red



RAL 5010  
Gentian blue



RAL 7038  
Agate grey



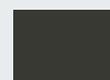
RAL 6024  
Traffic green



RAL 7012  
Basalt grey



RAL 7016  
Anthracite grey



RAL 7022  
Umbra grey



RAL 7024  
Graphite grey

### Preferred colours **// NEW**

# High-speed doors with flexible door leaf

Internal doors for special applications



## Door type V 4015 Iso L for cold and fresh logistics

The energy-efficient internal door is the ideal choice for refrigerated warehouses up to 1 °C (door shown with on-site protection frame).

## Door type V 2012 / V 3010 // NEW for supermarkets

The fully equipped doors are specially designed as a safe internal door in commercial enterprises with high customer frequency. The door curtain is also available with custom printing.





**Door type V 3015 Clean for clean rooms**

The door for clean rooms with differential pressure combines a high degree of tightness with complete transparency.

**Door type V 2515 Food L for the food industry**

Thanks to a construction made entirely of stainless steel, the door can be very easily cleaned with high-pressure cleaners and water.



# High-speed doors with flexible door leaf

## Internal doors for special applications

### Door type V 4015 Iso L

The door with energy-efficient insulated curtain is the perfect solution for internal areas for cold and fresh logistics (up to +5 °C). The optional ThermoFrame separates the frame from the building structure, thus improving thermal insulation by up to 15%.



**V 4015 Iso L**  
Stabilising wind lock



**V 4015 Iso L**  
PE foam in curtain pockets

### Door type V 2515 Food L

The side guides of this door, specifically designed for the food industry, are particularly 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.



**V 2515 Food L**  
Standard EPDM seal



**V 2515 Food L**  
Easy to clean: shaft, side elements and control box are made entirely of stainless steel.

### Door type V 2012

Full equipment with operator and shaft cover, standard light grille (monitoring height 350 mm) 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.



**V 2012**  
Light grille concealed in the door guide



**V 2012**  
Custom printing possible

### Door type V 3015 Clean

Air purification in clean rooms can result in a differential pressure of up to 50 Pa. The fully transparent curtain of the V 3015 Clean is tightly integrated in the special side guides. This minimises air loss (leakage) and enables an optimum design for ventilation systems. Thanks to the stainless steel cover on the shaft and operator, and the welded-in spring steel stabilisation, the frame is easy to clean without obstructions.



**V 3015 Clean**  
Extremely leaktight and fully transparent



**V 3015 Clean**  
Curtain tightly integrated in the side guides



## Equipment features

Door type	V 4015 Iso L	V 2515 Food L	V 2012	V 3015 Clean
Suitable application	Interior	Interior	Interior	Interior
Size range				
Max. width (mm)	4000	2500	2500	2500
Max. height (mm)	4500	4000	2500	3000
<b>Speed</b>				
Max. opening (m/s)	1,5	1,2	1,2	1,5
Closing approx. (m/s)	0,5	0,5	0,5	0,5
<b>Thermal insulation</b> (EN 13241-1, ISO 12567-1)				
U-value in W/(m <sup>2</sup> ·K)	1,6			
<b>Control</b>				
Standard	BK 150 FU E-1	BK 150 FU E-1	BK 150 FU E-1	BK 150 FU E-1
<b>Temperature range</b>	+1 °C to +40 °C	+5° C to +40 °C	+5° C to +40 °C	+5° C to +40 °C
<b>Curtain</b>	Insulating curtain, with a 20 mm thick PE foam infill	PVC, spring steel wind locks	PVC, curtain slides	PVC, spring steel wind locks with lateral twin rollers
Fabric thickness (mm)		1,5	1,5	
Vision field thickness (mm)		2,0	2,0	
Fully transparent curtain (mm)				4,0
<b>Curtain colours / wind lock strip colours</b>				
Standard colours	● <sup>1)</sup>	●	●	● <sup>2)</sup>
Preferred colours <b>// NEW</b>	○	○	○	○
ThermoFrame	○	-	-	-
<b>Emergency opening</b>				
Emergency crank handle	●	-	-	●
Counter weight with operating current brake	-	-	●	-
Automatic door opening via UPS in case of power failure	○	○	-	○

● = Standard ○ = Optional

All colours based on RAL

<sup>1)</sup> Only in RAL 7038

<sup>2)</sup> Only for wind lock strips

### Standard colours



RAL 1018  
Zinc yellow



RAL 2004  
Pure orange



RAL 3002  
Carmine red



RAL 5010  
Gentian blue



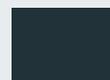
RAL 7038  
Agate grey



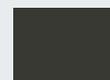
RAL 6024  
Traffic green



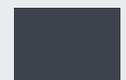
RAL 7012  
Basalt grey



RAL 7016  
Anthracite grey



RAL 7022  
Umbra grey



RAL 7024  
Graphite grey

### Preferred colours // NEW

# High-speed doors with flexible door leaf

Internal doors for individual needs



## Door type V 3009 Conveyor

The V 3009 Conveyor 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.



**Door type V 5030 MSL**

The flexible high-speed door with machine protection function protects operating personnel thanks to a monitored complete partitioning of the machine and provides fast access when needed.

**Door type V 6030 Atex**

The high-speed door is equipped with ATEX labelling in accordance with Directive 2014/34/EC for gas and dust zones.



# High-speed doors with flexible door leaf

## Internal doors for individual needs

### Door type V 5030 MSL

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

### Door type V 3009 Conveyor

Due to the low lateral space requirements, this door is specifically designed for integration in conveyor systems and their frequent automated opening and closing cycles. The operator control can be integrated in existing PLC systems. Two volt-free contacts report the door position (Open / Closed) to the control.

### Door type V 6030 Atex

This special door version with explosion-proof operator incl. closing edge safety device and a unique door curtain can be used in gas and dust zones, in accordance with Directive 2014/34/EU. The door is equipped with the following ATEX labelling in accordance with Directive 2014/34/EU:

- Ex II 2G Ex h IIB T4 Gb for gas zones and
- EX II 2D Ex h IIIB T125°C Db for dust zones



**V 5030 MSL**

Thanks to the safety sensors the door can open only when the machine is idle and the machine can be operated only when the door is closed.



**V 3009 Conveyor**

A vision field gives insight into the operating procedure.



## Equipment features

Door type	V 5030 MSL	V 3009 Conveyor	V 6030 Atex
<b>Suitable application</b>	Interior	Interior	Interior
<b>Size range</b>			
Max. width (mm)	4000	3500	4000
Max. height (mm)	4000	3500	4000
<b>Speed</b>			
Max. opening (m/s)	1,5	0.8 (1.2)	1,5
Closing approx. (m/s)	0,8	0.8 (0.5)	0,5
<b>Control</b>			
Standard	BK 150 FU E-1 <sup>1)</sup> AK 500 FUE-1 <sup>2)</sup>	AKE	BS 150 FU E-1
Optional		BK 150 FU E-1	
<b>Resistance to wind load (EN 12424)</b>			
Door width ≤ 4000 mm	Class 1		
<b>Temperature range</b>	+5 °C to +40 °C	+5 °C to +40 °C	+5 °C to +40 °C
<b>Curtain</b>	PVC, spring steel wind locks	PVC, Aluminium wind reinforcement laths	PVC, spring steel wind locks
Fabric thickness (mm)	2,4	1,5	1,5
Vision field thickness (mm)		2,0	2,0
Fully transparent curtain (mm)	4,0		
<b>Curtain colours</b>			
Standard colours	● <sup>3)</sup>	●	●
Preferred colours <b>// NEW</b>	○	○	○
<b>Emergency opening</b>			
Emergency crank handle	●	●	●

● = Standard ○ = Optional

All colours based on RAL

<sup>1)</sup> Up to 95 kg

<sup>2)</sup> From 95 kg

<sup>3)</sup> Wind lock strips and / or fabric colour  
(RAL 1018, RAL 3002 only for wind lock strips)

### Standard colours



RAL 1018  
Zinc yellow



RAL 2004  
Pure orange



RAL 3002  
Carmine red



RAL 5010  
Gentian blue



RAL 7038  
Agate grey



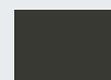
RAL 6024  
Traffic green



RAL 7012  
Basalt grey



RAL 7016  
Anthracite grey



RAL 7022  
Umbra grey



RAL 7024  
Graphite grey

### Preferred colours **// NEW**

# High-speed folding doors // *NEW*

Interior, exterior and deep-freeze doors





### **Efficient door operation**

Flexible high-speed folding doors speed up workflows and reduce energy costs. They feature safe door operation and a long service life thanks to standard equipment with a safety light curtain or photocell and a robust frame with flexible guide belts. In fact, they offer even more benefits: flexible high-speed folding doors are low-maintenance, cost-efficient and therefore economical for daily use.

### **Flexible fitting**

The door construction can either be fitted on the outside or inside of the opening.

### **Robust solution**

The curtain is opened using a patented belt system with safety belts and folds in the lintel area. The galvanised steel wind reinforcement laths are arranged across the entire door height and withstand wind loads up to class 4 (optional).

# Good reasons to try Hörmann

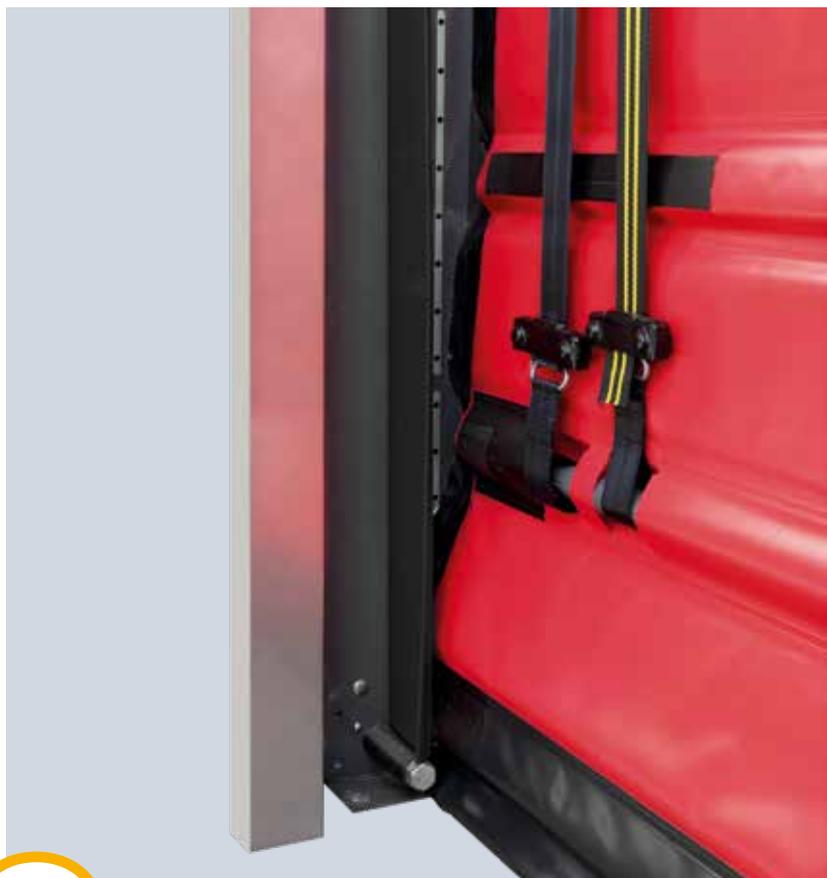
## Quality features of high-speed folding doors



# 1

### Safety light curtain / photocell as standard

The safety light curtain integrated into the side elements in the F 6010 / F 6010 Iso monitors the closing zone of the curtain up to a height of 2500 mm. The door types F 8005, F 14005 and F 4010 Cold are equipped with a photocell (not shown) for monitoring the closing zone. This **safety equipment meets the requirements of DIN EN 13241-1.**



# 2

### Standard anti-fall safeguard

The high-speed folding doors are opened and closed via 2 pull belts. **In addition, 2 further safety belts** secure the door curtain in the event of damage, e.g. tearing of the pull belts. **This patented belt system effectively prevents the door from crashing.**



# 3

## Flexible guide belts

The robust frame with innovative flexible guide belts prevents damage and resulting downtimes of the door system. In the event of a crash, the floor rail of the curtain is forced out of the guide belts. The curtain can then be reinserted and the door can be operated again. Another advantage of the flexible guide belts is minimal noise during movement of the curtain and the wind reinforcement laths caused by the wind.



# 4

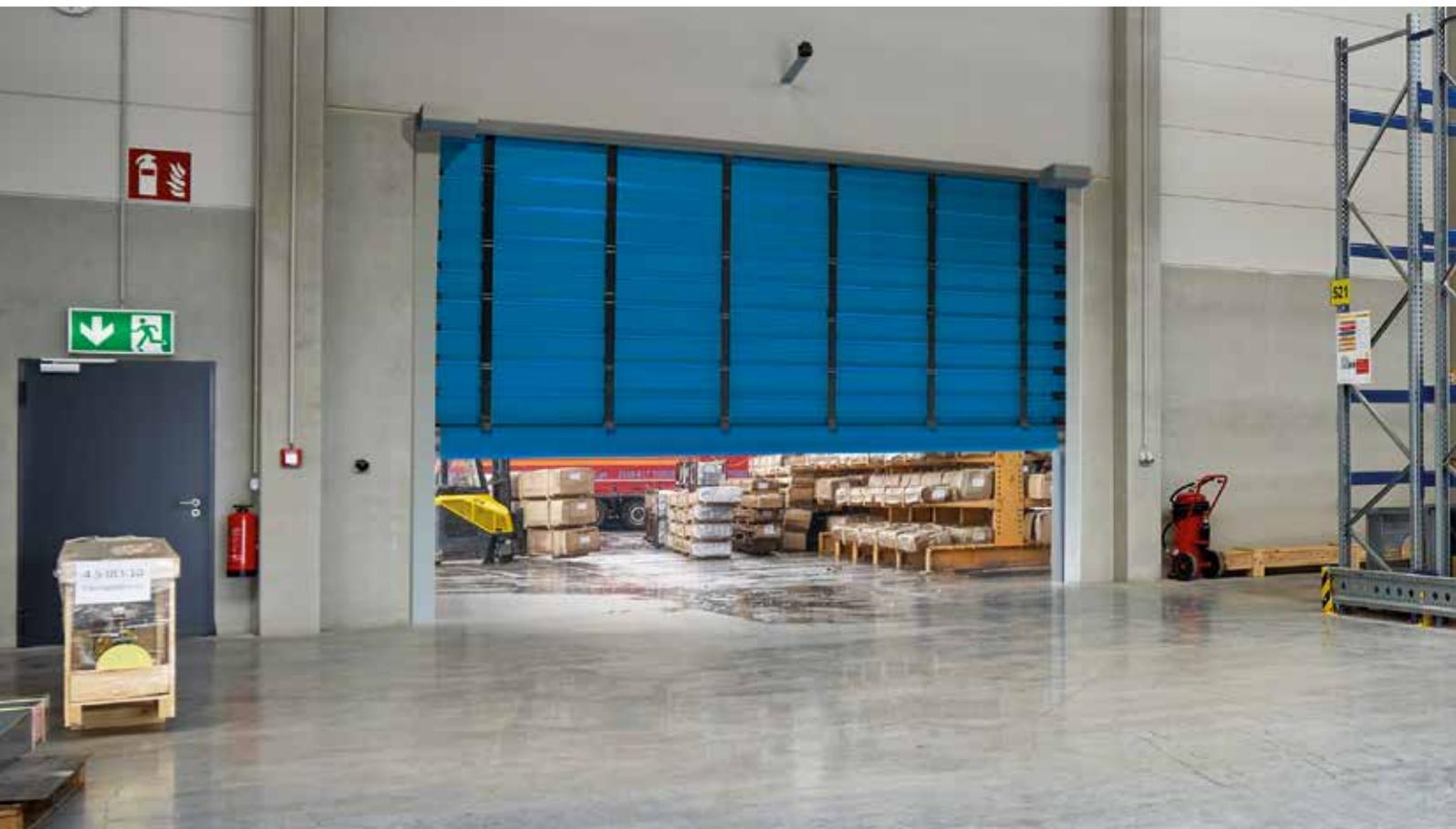
## Individual colour schemes

To achieve a **harmonious door appearance**, all Hörmann high-speed folding doors are available with **coated side elements and covers as standard**. Choose from 5 standard colours at no extra charge or optionally from 6 special colours.

Different colours can be combined for curtains, side elements and covers to create **individual colour schemes**. Alternatively, you can have your company logo or lettering (max. 800 × 800 mm) printed on the curtain.

# High-speed folding doors // NEW

Interior, exterior and deep-freeze doors



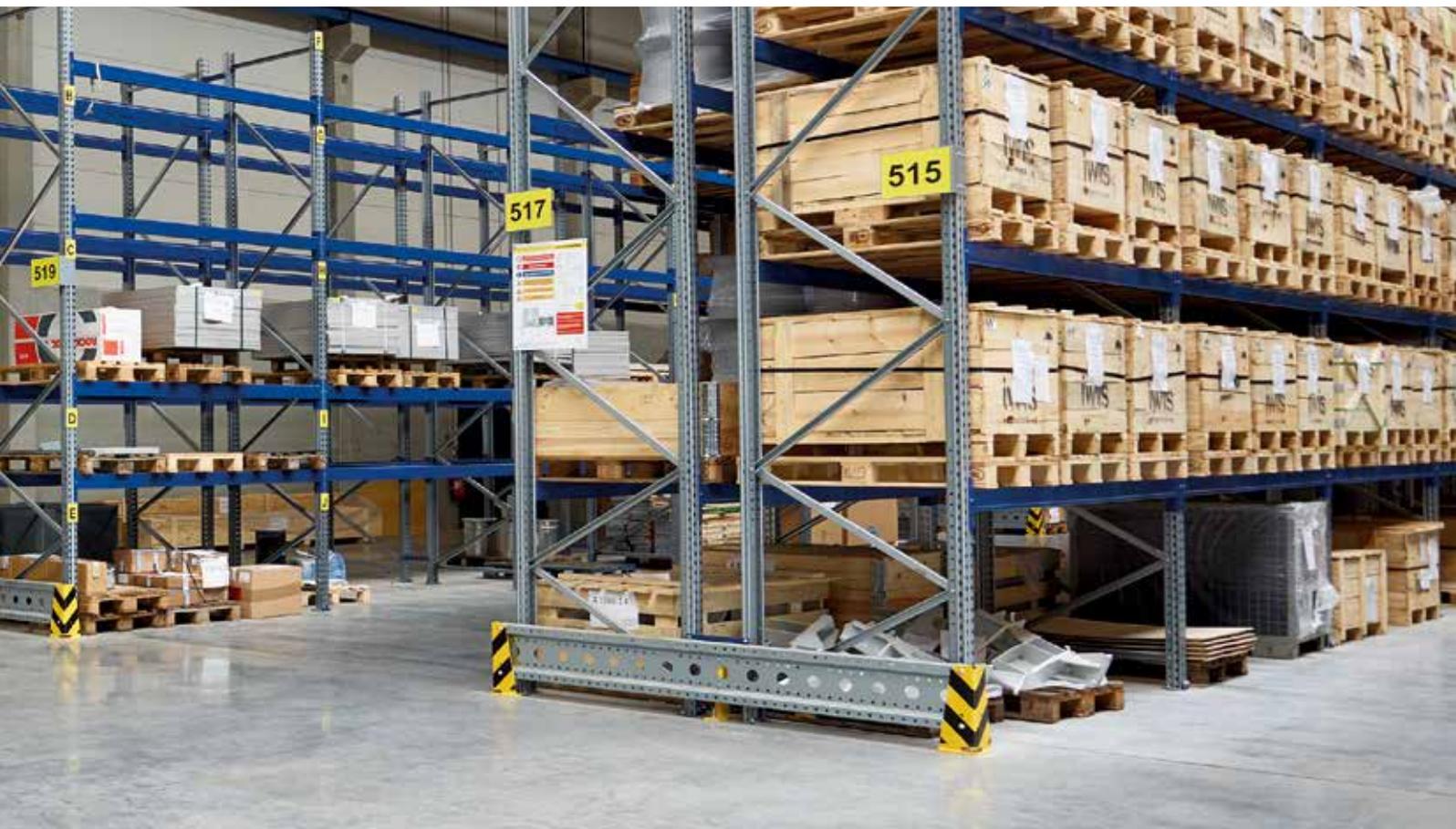
## Door type F 6010 / F 6010 Iso

The fast external door with opening speeds up to 1.0 m/s and openings up to 6 × 6 m

## Door type F 8005, F 14005

The high-speed folding doors with opening speeds up to 0.5 m/s for openings up to 8 m wide and 10 m high (F 8005) and up to 14 m wide and 8.5 m high (F 14005)





**Door type F 4010 Cold**

The insulated deep-freeze door for temperatures up to  $-30\text{ }^{\circ}\text{C}$  with opening speeds up to  $1.0\text{ m/s}$  and openings up to  $4 \times 5.5\text{ m}$



# High-speed folding doors // NEW

Interior, exterior and deep-freeze doors

## Door type F 6010 / F 6010 Iso

The opening speed of up to 1.0 m/s accelerates work processes for external door openings and reduces the thermal losses and draughts at the door. The stable steel wind reinforcement laths are arranged at 600 mm intervals across the entire height of the door and enable reliable operation up to wind class 3 (optionally up to wind class 4).

**For improved thermal insulation, we recommend the F 6010 Iso** with an insulated curtain. With an optional heated operator F 6010 Iso can be used up to  $-30^{\circ}\text{C}$ .



**F 6010 / F 8005 / F 14005**

1 x PVC curtain with standard steel wind reinforcement laths and optional window elements



**F 6010 Iso**

Improved thermal insulation due to the insulated curtain

## Door type F 8005

For openings up to 8 m wide and 10 m high, we recommend high-speed folding door F 8005 with robust steel wind lock profiles.

## Door type F 14005

The high-speed folding door reduces energy loss and draughts at large external door openings up to 14 m wide and 8.5 m high. Up to a width of 10 m, the doors reliably withstand wind loads up to class 4 as standard.

## Door type F 4010 Cold

The flexible high-speed folding door F 4010 Cold is the optimal solution for all interior areas in cold store logistics. The triple-insulated curtain reliably reduces cooling losses in cold store areas and the opening speed of 1 m/s ensures the rapid flow of traffic for maintaining the cold chain.

### Note:

Useful optional extras provided on site, such as underfloor heating, air curtain systems or dehumidifiers, ensure the reliable function of the high-speed folding doors.



**F 6010**

Flexible guide belts prevent downtime after a crash



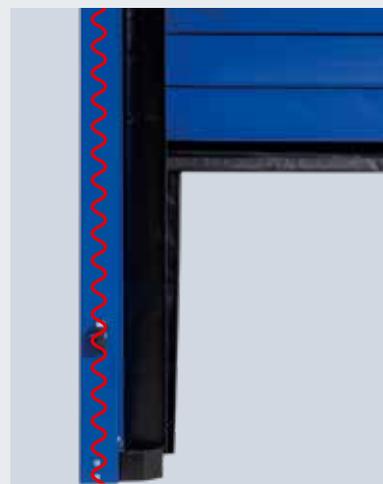
**F 6010 / F 6010 Iso**

Integrated control AK E 2500 M-I  
**// NEW**



**F 4010 Cold**

3 x insulated curtain for reducing cooling losses



**F 4010 Cold**

Heated frames for use in cold store areas with temperatures down to  $-30^{\circ}\text{C}$

## Equipment features

Door type	F 6010 / F 6010 Iso	F 8005	F 14005	F 4010 Cold
<b>Suitable application</b>	Interior / exterior	Interior / exterior	Interior / exterior	Cold store area
<b>Size range</b>				
Max. width (mm)	6000	8000	14000	Up to 4000
Max. height (mm)	6000	10000	8500	Up to 5500
<b>Speed</b>				
Max. opening (m/s)	1,0	0,5	0,5	1,0
Closing approx. (m/s)	1,0	0,5	0,5	1,0
<b>Controls</b>				
Standard	AK E	AK E-700 M	AK E-700 M	AK E
Optional	AK 500 FUE-1 <sup>1)</sup> , AK E 2500 M-I	-	-	AK 500 FUE-1 <sup>1)</sup> , AK E-750 M
<b>Safety</b>				
Light grille	●	-	-	-
Photo cell	-	●	-	●
Closing edge safety device	○	-	●	-
<b>Resistance to wind load (EN 12424)</b>				
Up to wind class 2	-	● <sup>2)</sup>	● <sup>2)</sup>	-
Up to wind class 3	●	● <sup>2)</sup>	● <sup>2)</sup>	-
Up to wind class 4	○	● <sup>2)</sup>	● <sup>2)</sup>	-
<b>Temperature range</b> (deviating temperatures on request)	-5 °C to +40 °C -30 °C to +40 °C <sup>3)</sup>	-5 °C to +40 °C	-5 °C to +40 °C	-30 °C to +15 °C
<b>Curtain</b>	PVC, steel wind reinforcement laths	PVC, steel wind reinforcement laths	PVC, steel wind reinforcement laths	3× PVC, fibreglass composite material
Fabric thickness (mm)	1,0	1,0	1,0	1,0
Vision field	○	○	○	-
<b>Curtain colours</b>				
Standard colours	●	●	●	●
Special colours	○	○	○	○
<b>Side element colours</b>				
Galvanized	●	-	-	●
Standard colours, coated	●	●	●	●
Special colours, coated	○	○	○	○
Stainless steel	○	-	-	○

● = Standard ○ = Optional

<sup>1)</sup> Max. 60 cycles per hour

<sup>2)</sup> Dependent on door size

<sup>3)</sup> With optional heating in the operator for outside applications

All colours based on RAL

### Standard colours



RAL 1018  
Zinc  
yellow



RAL 2004  
Pure  
orange



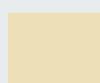
RAL 3002  
Carmine  
red



RAL 5010  
Gentian  
blue



RAL 7038  
Agate  
grey



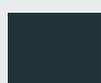
RAL 1015  
Light  
ivory



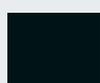
RAL 5015  
Sky blue



RAL 6026  
Opal  
green



RAL 7016  
Anthracite  
grey



RAL 9005  
Jet black



RAL 9010  
Pure  
white

### Special colours

# Intelligent operator and control technology

## Standard at Hörmann





## 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.

### ✓ 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

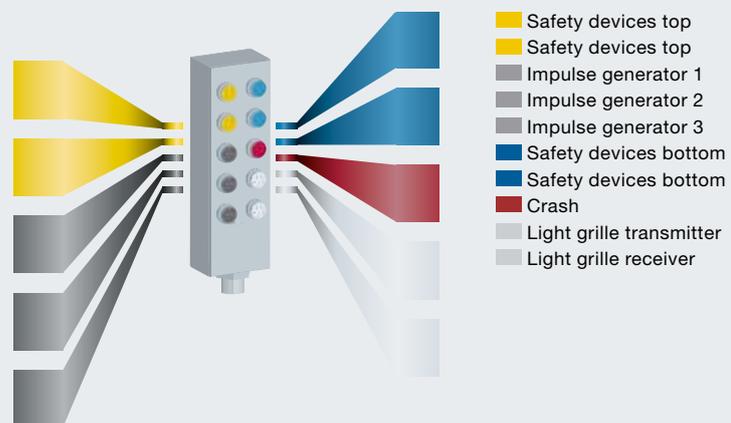
### ✓ Automatic timer (adjustable hold-open phase)

### ✓ Error display / diagnosis via a 4 × 7-segment display

### ✓ Service operation setting

### ✓ Colour-coded plug-in control wiring

Connection of accessory components and safety devices is made easy with colour-coded plug-in connections and connection cables. This makes fitting for initial electrical start-up quick and easy.



\* Dependent on door version

# SmartControl

For quick troubleshooting and reduction of service and maintenance costs



SmartControl monitors and analyses the function of your doors and collects all information, such as error messages, door travel, etc., in an online portal. This way, you or your service partner have access to this data at any time and worldwide via a web browser.

## Advantages at a glance:

- Fast and simple troubleshooting thanks to online access to operator control reduce the costs for on-site service visits
- Avoidance of diagnostics and damage reports by service technicians on-site
- Minimisation of repair times and avoidance of multiple visits, as all required spare parts for the specific service visit can be put together as needed
- Avoidance of downtimes due to early detection of wear, e.g. on springs or belts, as well as proactive, cost-effective replacement during annual maintenance
- Evaluation of door use and opening times to optimise the internal flow of traffic and energy cost savings
- Secure storage of door information in cooperation with Deutsche Telekom on a server in Germany
- No software installation required on local PC thanks to access via web browser
- Cost savings by extending the service life of your doors!



## Optional for all high-speed doors with the controls BK 150 FU E-1 and AK 500 FUE-1

The screenshot displays the SmartControl web interface for a door with serial number 0410-01283350010101. The interface includes a navigation bar with icons for home, user, and power, and a search bar labeled 'Find user'. Below the navigation bar, there are tabs for 'Overview', 'Error', 'Messages', 'Device details', 'Parts overview', 'Message configuration', and 'Groups'. The main content area is divided into several sections:

- Data:** A sidebar containing expandable sections for 'Additional information 1', 'Additional information 2', 'Comments', and 'Location'. The 'Location' section is expanded, showing details such as Product type (A 4012 SEL R), Control type (BK150FUE-1), Serial number (0410-01283350010101), Year of manufacture (2019), and Width (in mm) (1,100).
- Status:** A section with a status indicator (1) and three circular icons. The status is currently 'Status unknown'.
- Position:** A section with a position indicator (2) and a diagram of a door in its upper position. The position is 'Upper/open end-of-travel position' as of 2019/10/30 15:57 CET. A button labeled 'Request current position' is visible below the diagram.
- Cycles:** A section with a cycles indicator (2) showing a total of 7,173 cycles and a field for 'Cycles per week'.

### Overview of most important functions:

#### Door details

SmartControl provides a clear overview of the door status **1** including the ID and the corresponding Hörmann partner. During diagnosis, current information such as downtimes or error messages are read out.

#### Explanation of error message

All error messages are explained in an understandable way and the appropriate solutions are suggested.

#### Door cycle counter

The door cycles **2** of all doors are also recorded digitally. Among other things, the data enables a comparison of the door and the replacement of wearing parts during the next maintenance.

#### Maintenance calendar

On the basis of the diagnosis and the number of door cycles, an automatic maintenance calendar can be set which displays the next maintenance dates for the individual doors.



Take a look at the video "SmartControl" at: [www.hoermann.com/mediacenter](http://www.hoermann.com/mediacenter)



Login using the demo access and test the Hörmann SmartControl at [www.hoermann-smartcontrol.com](http://www.hoermann-smartcontrol.com)

**User name:**  
smartcontrol@hoermann.de

**Password:**  
smartcontrol

# Controls

For spiral doors and high-speed sectional doors, flexible high-speed doors and high-speed folding doors



**BK 150 FU E-1**  
FU control  
in plastic housing IP 65,  
single-phase, 230 V

#### Operation

Open / Stop / Close membrane push button,  
Quadruple 7-segment display  
For information on door operation

#### Function

Automatic timer,  
Adjustable hold-open phase,  
Safety light curtain,  
Closing edge safety device  
(V 3015 Clean),  
stop/re-open

#### Extension options

Main switch, emergency-off button, traffic light, flashing warning light,  
Locking, intermediate stop,  
Extension PCB, steel cabinet IP 65, 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 high-speed doors

V 4015 SEL Alu-R  
V 5015 SEL  
V 5030 SEL  
V 6030 SEL  
V 6020 TRL (up to 95 kg)  
V 5030 MSL (up to 95 kg)  
V 2012  
V 4015 Iso L  
V 3009 Conveyor  
V 3015 Clean



**AK 500 FUE-1**  
FU control  
in plastic housing, IP 65,  
three-phase, 400 V

#### Operation

Open / Stop / Close membrane push button,  
Emergency-off button,  
4x 7-segment display for information on door functions, lockable main switch

#### Function

Automatic timer,  
Adjustable hold-open phase,  
Safety light curtain,  
Closing edge safety device  
(V 10008, Iso Speed Cold),  
stop/re-open

#### Extension options

Traffic lights, flashing warning light,  
Locking, intermediate stop,  
Extension PCB  
Steel cabinet IP 65,  
Stainless steel cabinet IP 65

#### 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 mm<sup>2</sup> (depending on national standards), colour-coded plug-in control wiring

#### Housing dimensions

230 × 460 × 200 mm

#### Compatible spiral doors and high-speed sectional doors

All door types

#### Compatible high-speed doors

V 10008  
V 5030 SEL  
V 6030 SEL  
V 6020 TRL (from 95 kg)  
V 5030 MSL (from 95 kg)  
F 6010  
F 6010 Iso  
F 4010 Cold



**AK E,**  
**AK E light**  
Reversing contactor control  
in plastic housing,  
three-phase, 400 V

#### Operation

Open / Stop / Close membrane push button,

#### Function

Automatic timer,  
Adjustable hold-open phase,  
Safety light curtain,  
Photocell,  
Closing edge safety device,  
stop/re-open

#### Extension options

Main switch, emergency-off button, traffic light, flashing warning light,  
Locking (only AK E),  
Intermediate stop (only AK E),  
Extension PCB (only AK E)  
Stainless steel cabinet IP 65

#### Wiring

Connecting lead 3~400 V, N, PE,  
Fuse 10 A, slow-acting, plug-in connection between door operator and control cabinet as a cable set, 6.5 m, CEE plug, 5-pin, with 1 m cable for on-site CEE socket, 16 A

#### Housing dimensions

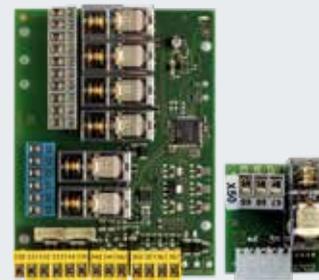
180 × 320 × 100 mm

#### Compatible high-speed doors

**AK E**  
V 3009  
F 6010  
F 6010 Iso  
F 4010 Cold

#### AK E light

V 4008 SEL



**Extension PCB for controls:**  
**BK 150 FU E-1 (E FU H)**  
**AK 500 FUE-1 (E FU H)**

#### Expansion card with 6 relays

Lock controller,  
6 additional switch outputs  
(1 × 4, 2 × 1 volt-free)  
6 additional digital inputs

#### Expansion card with 1 relay

Lock controller,  
1 additional switch output



#### Induction loop detector

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

# Accessories

For controls BK 150 FU E-1, AK 500 FUE-1, AK E and AK E light



## Hörmann BiSecur (BS)

### The modern radio system for industrial door operators

The bi-directional radio system BiSecur is based on future-oriented technology for the convenient and secure operation of industrial doors. The extremely secure BiSecur encryption protocol makes sure that no-one can copy your radio signal. It was tested and certified by security experts at Bochum university.

#### Your advantages

- 128-bit encryption with the same high security level as online banking
- Interference-resistant radio signal with a stable range
- Backwards compatible, i.e. radio receivers with the frequency 868 MHz (2005 to June 2012) can also be operated with BiSecur control elements.



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

Black textured surface with chrome caps



**Industrial hand transmitter  
HSI 6 BS, HSI 15 BS // NEW**

To control up to 6 doors (HSI 6 BS) or 15 doors (HSI 15 BS), with extra-large buttons for easier operation with work gloves, impact-resistant housing  
Protection category: IP 65



**External control element for FUE-1**

For easy operation and programming, can be placed independent of the control, same control buttons as on the control, 4 x 7-segment display



**1-channel relay receiver  
HER 1 BS**

With volt-free relay output with status query



**2-channel relay receiver  
HET-E2 24 BS**

With 2 volt-free relay outputs for choosing the direction, a 2-pin input for volt-free Open and Close limit switch reporting (for querying the door position)

# Accessories

For controls BK 150 FU E-1, AK 500 FUE-1, AK E and AK E light



**Radar movement detector MWD-C**  
Fast and targeted automatic door opening, directional recognition, max. fitting height 7 m, fitting in cold store possible to max. -22 °C, IP 65



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



**Pull cord switch // NEW**  
With radio and batteryless transmitter, black plastic, IP 66



**Push buttons**  
2x "Open / Close", or 3x "Open / Emergency-off / Close", plastic housing, IP 65



**Mushroom button**  
With large operating surface, plastic housing, IP 65



**Radar button HTR 1-24**  
Sensor for non-contact opening, plastic housing, IP 41



**Non-contact opening sensor // NEW**  
Plastic housing, IP 65



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



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



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



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

# Accessories

For controls BK 150 FU E-1, AK 500 FUE-1

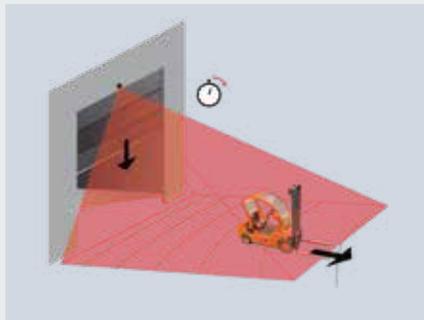


## 3D laser scanner Scanprotect

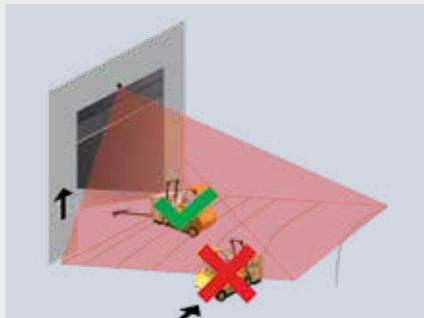
Thanks to laser technology, the high-end motion detector and monitoring system guarantees operational safety, even with different floor coverings.

- Especially suited for outdoor areas as it is not susceptible to different weather conditions
- Reliable advance protection, as well as fast and targeted automatic door opening
- Convenient setting options via the operator control
- Easy to hide objects permanently or temporarily in the detection range
- Deactivation of cross-traffic and pedestrian traffic
- Automatic partial opening up to a defined height for people or vehicles
- Virtual pull switch enables door opening by people or vehicles standing at a defined position
- Visible LED spots on the floor assist during setup
- Easy connection to the operator control with plug-in wiring
- Bluetooth module **// NEW** for convenient configuration via app, e.g. with visualisation of the set field sizes in real-time

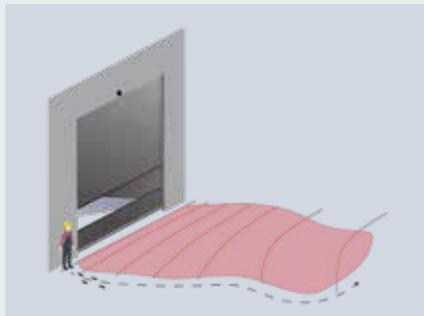
The laser field acts as a reliable door monitor. It detects how fast and in which direction the object is travelling, ensuring optimum opening and closing reaction times. This minimises a door's hold time and saves energy.



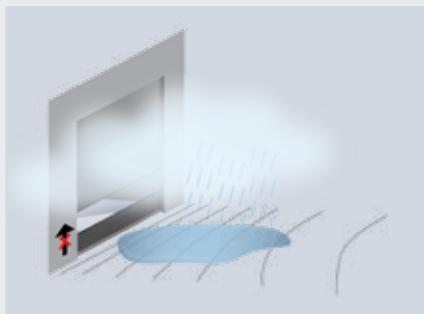
Cross-traffic can be ignored and there is an option to set a pedestrian filter, depending on the application. This ensures that the door is only opened when it needs to be.



The detection area can be adjusted according to the on-site requirements, for example, cross-traffic or shunted objects can be hidden.



The reliable and safe laser scanner can be used for reflective surfaces and during adverse weather conditions, even with leaves or snow.



Watch the video at:  
[www.hoermann.de/video](http://www.hoermann.de/video)

# Controls

## For flexible high-speed doors and high-speed folding doors



### AK E 2500 M-1 // NEW

Reversing contactor control integrated in the frame, IP 20, three-phase, 400 V or 230 V

#### Operation

Open / Stop / Close membrane push button, main switch, emergency-off button, display

#### Function

Electronic end-of-travel position setting, automatic timer

#### Wiring

Connecting lead 3 ~ 400 V, PE, fuse 10 A, slow-acting, or connecting lead 3 ~ 230 V, PE, Fuse 25 A, slow-acting, Plug-in connection between door operator and control cabinet as cable set, 6.5 m, CEE plug, 5-pin with 1 m cable for on-site CEE socket, 16 A

#### Compatible high-speed doors

F 6010  
F 6010 Iso



### AK E 700 M

Reversing contactor control in plastic housing, three-phase, 400 V or 230 V

#### Operation

Open / Stop / Close membrane push button, main switch, emergency-off button

#### Function

Automatic timer, adjustable hold-open phase, safety photocell, stop / re-open

#### Extension options

Traffic lights, flashing warning light, locking, intermediate stop

#### Wiring

Connecting lead 3 ~ 400 V, PE, fuse 10 A, slow-acting, or connecting lead 3 ~ 230 V, PE, Fuse 25 A, slow-acting

#### Housing dimensions

400 × 500 × 200 mm

#### Compatible high-speed doors

F 8005  
F 14005



### AK E 750 M // NEW

Reversing contactor control in plastic housing, three-phase, 400 V or 230 V

#### Operation

Open / Stop / Close membrane push button, main switch, emergency-off button

#### Function

Automatic timer, adjustable hold-open phase, safety photocell, stop / re-open

#### Extension options

Traffic lights, flashing warning light, locking, intermediate stop

#### Wiring

Connecting lead 3 ~ 400 V, PE, fuse 10 A, slow-acting, or connecting lead 3 ~ 230 V, PE, Fuse 25 A, slow-acting

#### Housing dimensions

355 × 400 × 200 mm

#### Compatible high-speed doors

F 4010 Cold



**AK E 370 M-I // NEW**

Reversing contactor control integrated in the frame, IP 20, three-phase, 400 V or 230 V

**Operation**

Open / Stop / Close membrane push button, main switch, emergency-off button, display

**Function**

Electronic end-of-travel position setting, Automatic timer

**Wiring**

Connecting lead 3 ~ 400 V, PE, fuse 10 A, slow-acting, or connecting lead 3 ~ 230 V, PE, Fuse 25 A, slow-acting, Plug-in connection between door operator and control cabinet as cable set, 6.5 m, CEE plug, 5-pin with 1 m cable for on-site CEE socket, 16 A

**Compatible high-speed doors**

V 3010



**AK E 370 M // NEW**

Reversing contactor control in plastic housing, three-phase, 400 V or 230 V

**Operation**

Open / Stop / Close membrane push button, main switch, emergency-off button

**Function**

Automatic timer, adjustable hold-open phase, safety photocell, stop / re-open

**Extension options**

Traffic light, flashing warning light, locking, Intermediate stop

**Wiring**

Connecting lead 3 ~ 400 V, PE, fuse 10 A, slow-acting, or connecting lead 3 ~ 230 V, PE, Fuse 25 A, slow-acting

**Housing dimensions**

380 × 290 × 150 mm

**Compatible high-speed doors**

V 3010



**BK 370 M FUE-1 // NEW**

Frequency converter control in plastic housing, three-phase, 400 V or 230 V

**Operation**

Open / Stop / Close membrane push button, main switch, emergency-off button

**Function**

Automatic timer, adjustable hold-open phase, safety photocell, stop / re-open

**Extension options**

Traffic lights, flashing warning light, locking, intermediate stop

**Wiring**

Connecting lead 3 ~ 400 V, PE, fuse 10 A, slow-acting, or connecting lead 3 ~ 230 V, PE, Fuse 25 A, slow-acting

**Housing dimensions**

400 × 400 × 170 mm

**Compatible high-speed doors**

V 3010

# Accessories

For controls AK E 700 M, AK E 2500 M-I, AK E 750 M, AK E 370 M-I, AK E 370 M, BK 370 M FUE-1



**4-button hand transmitter**  
Black



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



**Radio receiver**  
For control via hand transmitter



**Push buttons**  
3 x "Open / Emergency-off / Close"  
Plastic housing, IP 65



**Push buttons**  
2 x "Open / Close"  
Plastic housing, IP 65



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



**Induction loop**  
Detector with normally open contact and changeover contact, can be set to pulse or permanent contact, direction recognition, 50 m loop cable



**Radar sensor**  
Fast and targeted automatic door opening, directional recognition, IP 65



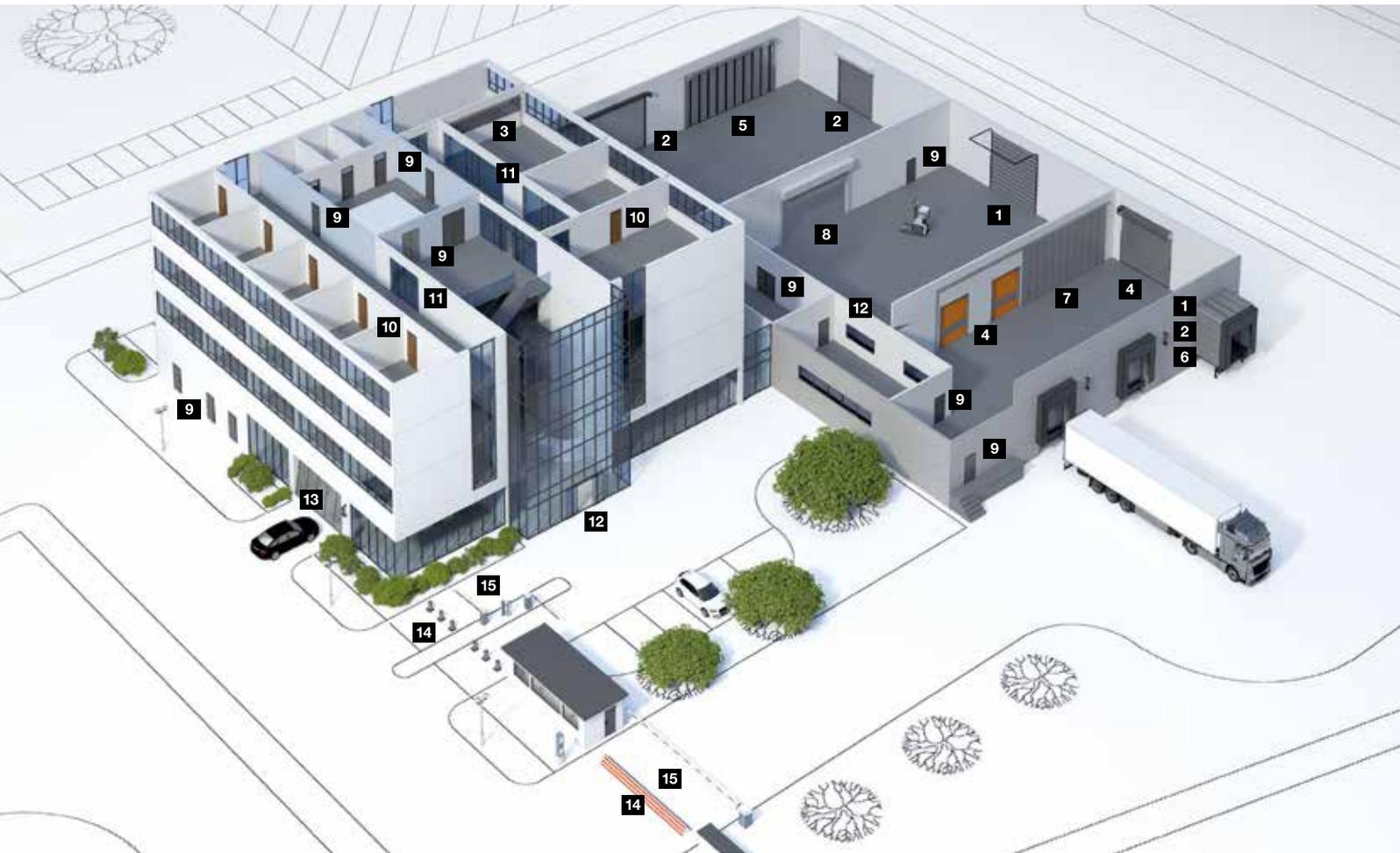
**Rotating warning light**  
Red or yellow,  
Plastic housing, IP 54

# Hörmann Product Range

Everything from a single source  
for your construction project



**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** Sectional doors



**2** Rolling shutters and rolling grilles



**3** Shop doors



**4** High-speed doors



**5** High-speed folding doors



**6** Loading technology



**7** Steel and stainless steel sliding doors



**8** Fire protection curtains



**9** Steel and stainless steel construction project doors



**10** Steel frames with high-quality timber function doors from Schörghuber



**11** Tubular frame construction project doors



**12** Visibility window



**13** Collective garage doors



**14** Bollards and road blockers



**15** Barrier and pay station systems

# 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 Ichttershausen, Germany



Hörmann KG Werne, Germany



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 LLC, Burgettstown PA, USA



Shakti Hörmann Pvt. Ltd., India

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 Asia, make Hörmann your strong partner for first-class building products, offering “Quality without Compromise”.

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