

Hormann Insulated High Speed Doors



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MON - FRI 8:30AM - 5:30PM

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 security

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.

Image on left: Van Dijck Groenteproducties BV, America, The Netherlands

Good Reasons to Try Hörmann

Quality features of spiral doors and high-speed sectional doors



1 Safety as standard

Non-contact safety

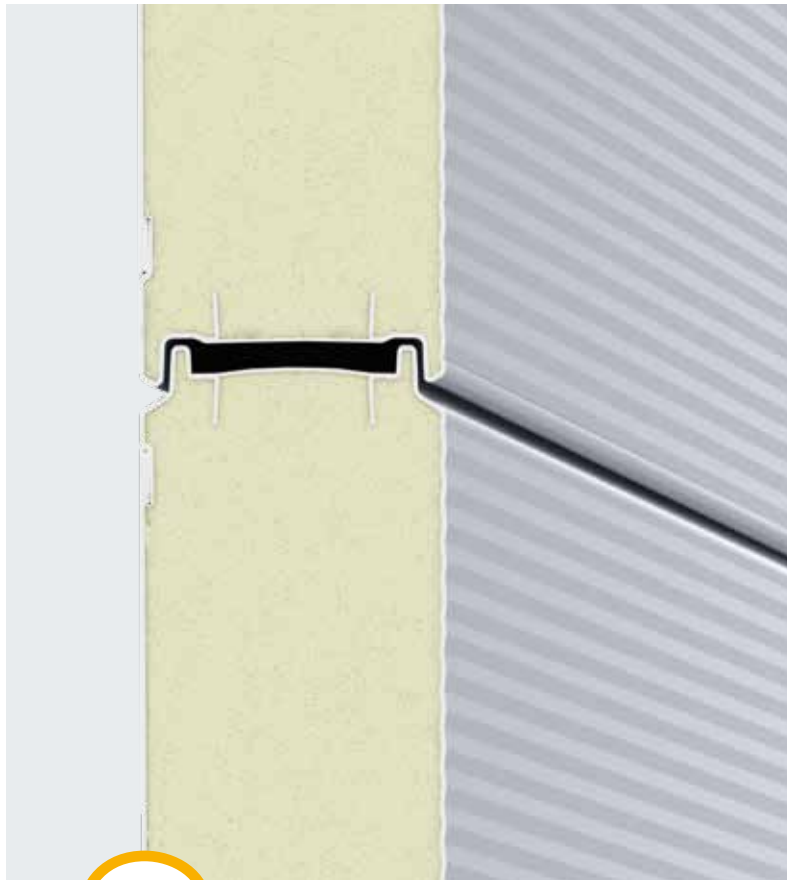
Safety light grilles integrated into the side assemblies monitor the closing zone of the door leaf up to a height of 2500 mm. The safety light grilles ensure compliance with **safety requirements according to DIN EN 13241-1**. This does away with the need for additional installations on the door (e.g. closing edge safety device or photocell). Profit from this **high level of safety with a high-speed door that is exceptionally easy to fit and service**. It pays to compare!

2 Optimised operations

Long service life and high efficiency as standard

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**. In addition, they relieve the entire door mechanism through the smooth starting and braking action which considerably **extends the service life of the door**. For heavy, insulated doors the door travel is supported by springs, and for high-speed sectional doors with H and V track applications by wear-free counter weights.

Glazing beads facilitate the exchange of individual panes



Only from Hörmann



3

Efficient thermal insulation

Uniformly foamed steel sections

The galvanized, double-skinned sections with PU rigid foam infill offer an **especially high level of thermal insulation**. 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.

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 can be optionally ordered for doors with 42 mm and 67 mm thick sections. It is already included in the scope of delivery for Iso Speed Cold 100 doors.

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 frame with thermal break with triple glazings. 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



Quick and well-insulated

The high opening and closing speeds reduce heat losses.

The space-saving track application N (normal)

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





**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 with thermal break and high thermal insulation

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 W/(m²·K). The optional ThermoFrame also improves the thermal insulation for this version by up to 15 % (for 25 m² door surface).

100 mm steel sandwich section with thermal break

This door version is the optimal door for the cold store and deep freeze areas and is delivered with ThermoFrame as standard. For use in deep freeze areas, the side elements, operator, control, sealing frame and base plates are delivered heated.



Double-skinned steel sandwich sections with thermal break in three thicknesses: 42, 67 and 100 mm, acoustic section

Acoustic sections

For the special requirements of acoustic insulation, the HS 5015 Acoustic H high-speed doors are equipped with aluminium hollow profiles. The hollow profiles are filled with 5 mm UPVC and 30 mm PU foam.

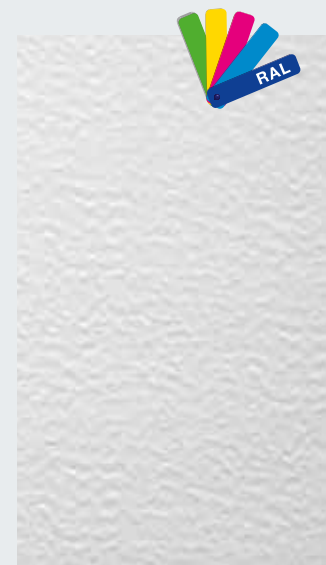
Surface finishes and colours

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. The 100 mm thick sections come Stucco-textured on the interior and exterior in standard Grey white based on RAL 9002.

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



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



Stucco texture, on exterior for 100 mm sections

**Excellent thermal insulation
with a U-value of up to 0.57 W/(m²·K)**

Features

Door leaf

Construction	Steel sandwich construction, PU-foamed	Steel sandwich construction, PU-foamed	Steel sandwich construction, PU-foamed	Aluminium hollow profile, 5 mm UPVC / 30 mm PU
Depth (mm)	42	67	100	42
Section height (mm)	250	375	500	225
Exterior / interior surface	Micrograin / Stucco	Micrograin / Stucco	Stucco	smooth
Standard colour	RAL 9006	RAL 9006	RAL 9002	C0 anodised
ThermoFrame	○	○	●	-
Duratec glazing, double	○	-	-	-
Duratec glazing, triple	○	○	-	-

Speed with standard FU control

Max. opening (m/s)	1.5 – 2.5	1.5 – 2.5	1.5 – 2.0	1.5 – 2.5
Closing approx. (m/s)	0,5	0,5	0,5	0,5

Resistance to wind load (EN 12424)

Door width ≤ 5000 mm	Class 5	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 3	
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Air permeability (EN 12426)

	Class 2		Class 3	
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Acoustic insulation (EN 717-1, EN ISO 10140-1, EN ISO 10140-2) without glazing

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

U-value in W/(m ² ·K)	1,04	0,64	0,57	
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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 ² door surface)	○	-	-	-

● = Standard ○ = Optional

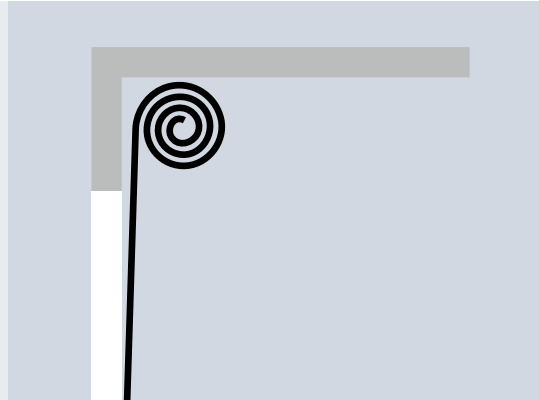
All colours are based on RAL.

Spiral Doors and High-Speed Sectional Doors

Individual track application versions for every fitting situation

The compact spiral track application

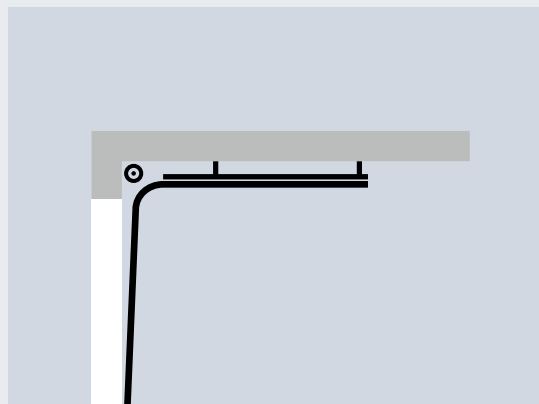
The sections are securely guided into a spiral bracket without any contact. With the high-performance frequency converter control (FU) and the chain mechanism with spring compensation, the door reaches an opening speed of up to 2.5 m/s. The spiral door HS 7030 PU 42 can also be fitted externally.



Spiral track application

The space-saving track application N

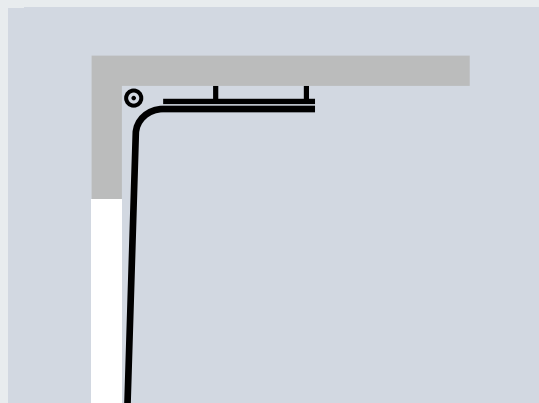
We recommend this track application for tight spaces in the lintel area. A chain mechanism with spring compensation runs the sections into horizontal tracks. This requires a low headroom of 480 mm.



Track application N (normal)

The adjustable track application H

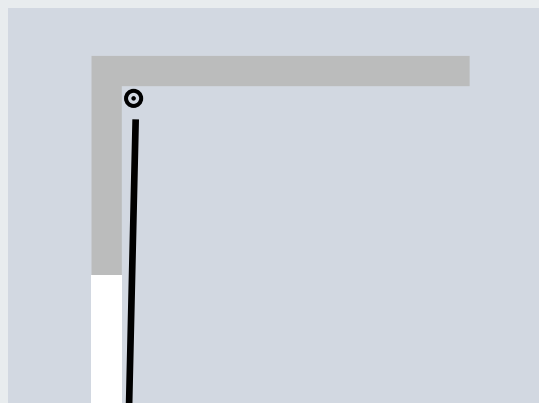
The sections are guided into horizontal tracks and can be diverted depending on the fitting situation. Thus, the door can be fitted behind or above supply lines and crane tracks. Thanks to the belt mechanism with counter weights, the door is especially low-wear and long-lasting thanks to the belt mechanism.



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. 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.



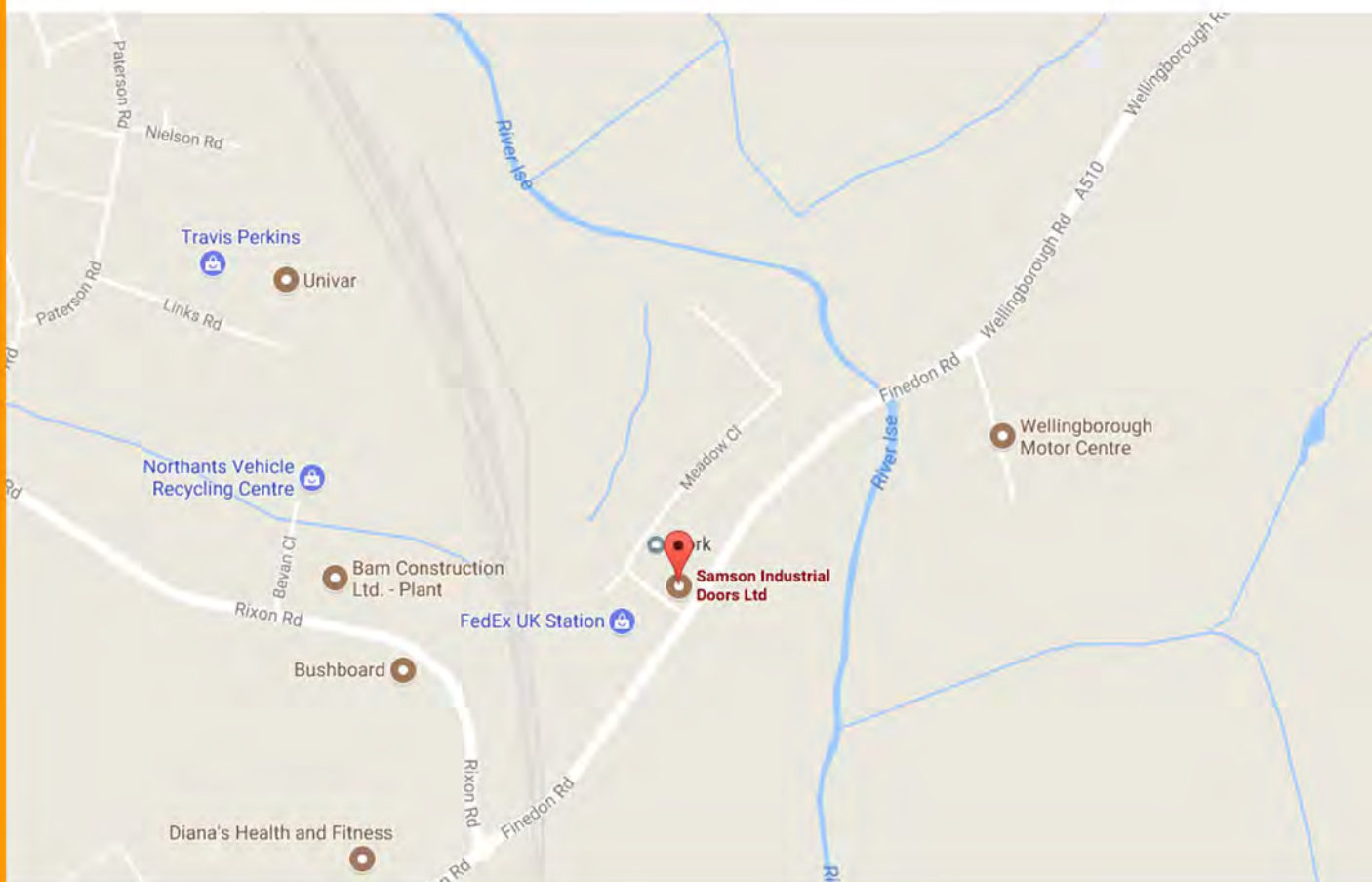
Track application V (vertical)

Features

Track application	Spiral track application	Track application N (normal)	Track application H (high-lift)	Track application V (vertical)
Counterbalance				
Chain mechanism and springs	●	●		
Belt mechanism and counter weights			●	●
42 mm steel sandwich section, PU-foamed, with thermal break				
Door type	HS 7030 PU 42	HS 5015 PU N 42	HS 5015 PU H 42	HS 6015 PU V 42
Max. width (mm)	6500	5000	5000	6500
Max. height (mm)	6500	6500	6500	6500
Min. required headroom (mm)	920	480	750	LDH + 585
67 mm steel sandwich section, PU-foamed, with thermal break				
Door type			HS 5015 PU H 67	HS 6015 PU V 67
Max. width (mm)			5000	6500
Max. height (mm)			6500	6500
Min. required headroom (mm)			950	LDH + 735
100 mm steel sandwich section, PU-foamed, with thermal break				
Door type			Iso Speed Cold H 100	Iso Speed Cold V 100
Temperature range (deviating temperatures on request)			Fitting side to 0°C Opposite side -28°C	Fitting side -28°C Opposite side -28°C
Max. width (mm)			5000	5000
Max. height (mm)			5000	5000
Min. required headroom (mm)			750	LDH + 585
42 mm aluminium hollow profile, filled with 5 mm UPVC and 30 mm PU foam				
Door type			HS 5015 Acoustic H	
Max. width (mm)			5000	
Max. height (mm)			5000	
Min. required headroom (mm)			1000	

● = Standard ○ = Optional LDH = clear passage height

Samson



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