



Shakti Hormann Private Limited



Industrial Door Programme

Complete solutions for more efficiency

HÖRMANN





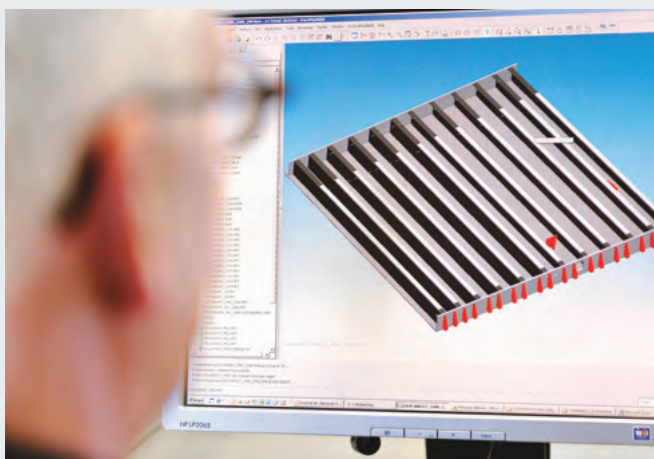
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Brand quality from Hörmann

Reliable and oriented towards the future



Alnatura logistics centre in the city of Lorsch in the German state of Hesse



In-house product development

At Hörmann, innovation is produced in-house – highly qualified employees of the development department are in charge of product optimisation and new developments. This results in market-ready, high-quality products that are very popular around the globe.



Modern manufacturing

Hörmann's high automation level ensures a consistently high quality level. All production processes are precisely calibrated and monitored by modern computer systems. This way, large quantities of dock levellers, shelters and seals are manufactured, all with equal precision. However, we also manufacture smaller quantities or customised special solutions according to customer specifications at the same high quality level.



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

Highly-specialised factories develop and produce construction components that are marked 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.



Competent advice

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



Efficient service

Our extensive service network means that we are always nearby and at your service around the clock. This is a major advantage in terms of inspections, maintenance and repairs.



Sustainability documented and approved by the ift in Rosenheim

Hörmann has already received confirmation of the sustainability of all its multi-function doors through an environmental product declaration (EPD)* in accordance with ISO 14025 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 from ift Rosenheim GmbH, issue PCR-TT-0.1.

Environmentally-friendly production was confirmed by a life-cycle analysis in accordance with DIN ISO 14040 / 14044.

Sustainably produced loading technology from Hörmann

Environmentally friendly production
A comprehensive energy management system ensures environmentally friendly production.

Regional raw materials
The majority of applied raw materials is purchased from Germany and central Europe.

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

Sustainable construction with Hörmann's expertise

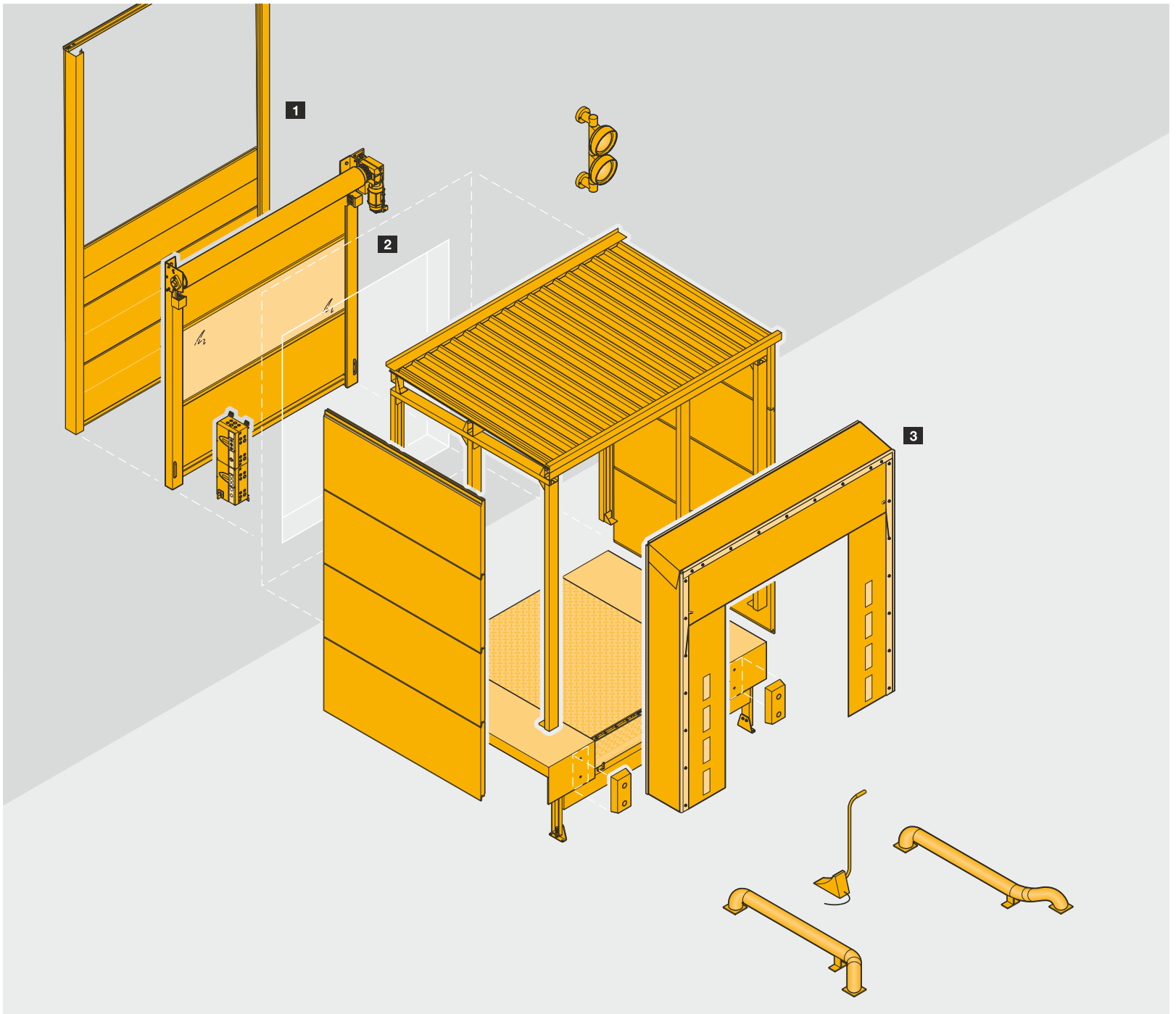
Hörmann has been able to gain great expertise in sustainable construction through various projects. We also apply this know-how to support your projects. You will receive the information required for product certification as a corresponding EPD along with our offer for loading technology and industrial doors.



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

The right products

Developed and manufactured in-house



Optimally co-ordinated system

All components for your industrial door and loading bay are available from a single source: Hörmann. Developed and manufactured in-house, Hörmann products are optimally co-ordinated.

- 1 Industrial door**
- 2 High-speed door**
- 3 Loading technology**

Sectional door SPU F42

Double-skinned steel sectional doors



These space-saving door systems can be adapted to different industrial facilities using various track applications. This gives you planning reliability when building a new facility or renovating. Hörmann offers you customised solutions for every application.



Commercial buildings and warehouses
Operator WA 300 S4 is an inexpensive solution if your door is not used frequently every day



Industrial hall
Easy and safe passage of pedestrians thanks to a wicket door with trip-free threshold



Agriculture
Robust thanks to 42 mm PU-foamed panels

Double-skinned steel sectional doors

SPU F42

The 42-mm-thick PU-foamed section with finger trap protection is especially robust and offers a good thermal insulation. The door leaf is available in the surface variants Stucco-textured. The Stucco-textured surface features a uniform ribbing every 125 mm in the section and in the section transition.

Brief overview

Door type	SPU F42 Without wicket door
Door size	
Max. width	8000 mm
Max. height	7000 mm
Resistance to wind load EN 12424	Class 3
Water tightness EN 12425	Class 3 (70 Pa)
Air permeability EN 12426	Class 2
Acoustic insulation EN 717-1	R = 25 dB
Thermal insulation EN 13241-1, Appendix B EN 12428 For a door surface of 5000 × 5000 mm	
Closed door	U = 1.0 W/(m²·K)
Section	U = 0.50 W/(m²·K)

Safety features in acc. with EN 13241-1



Compound glazings, Type A

Glazing frame: Plastic frame or diecast frame, black
Clear view: 635 × 245 mm
Door section height: 500, 625, 750 mm



Robust bottom section

The 750-mm-high bottom section is available in Stucco surface finish. It is especially robust thanks to the uniform PU foaming of the 42 mm steel section and can also resist an unintentional hit. With larger damages, it can be exchanged easily and inexpensively.



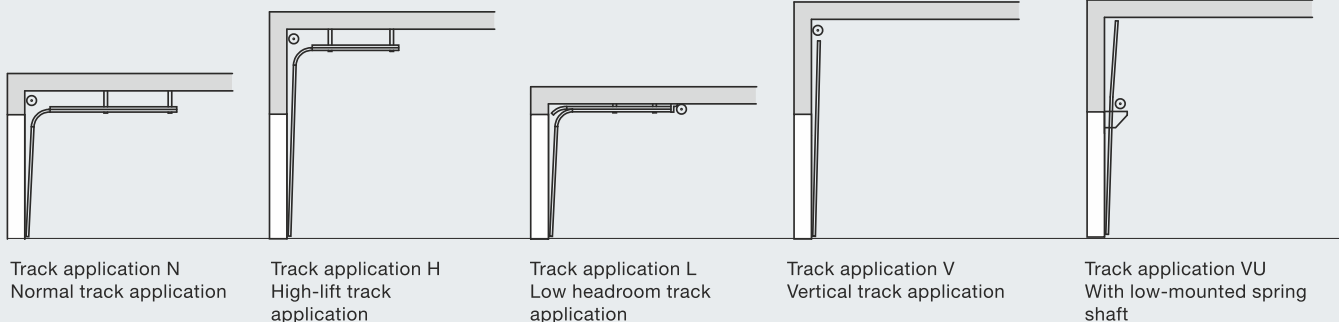
Examples of track versions

Sound planning for old and new buildings



Track applications that fit precisely to the building

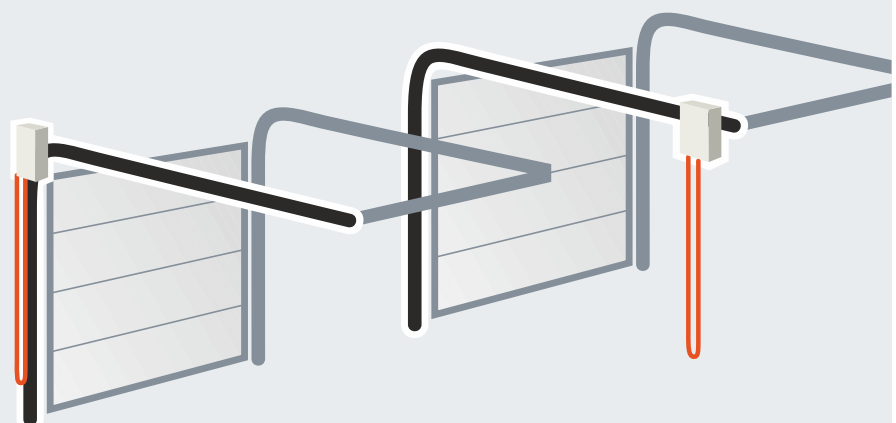
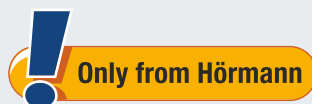
Whichever door type you have selected for your building: At Hörmann, you will find the a track application to match your door. Depending on the building architecture and requirement, you can choose between standard and low headroom track applications, low headroom track applications or inclined track applications.



Please see the valid technical manual for all of the available track applications.

The low headroom track application

Operator and chain are on the front of the door. An unsightly and potentially hazardous chain no longer dangles down. It pays to compare!



Hörmann arrangement

Competitors arrangement

Shaft operator WA 300 S4, WA 400 with standard soft start and soft stop

**Expanded
size range**



Soft start and soft stop

For gentle and quiet door travel, thereby sustainably increasing the service life of the door system.



Lower investments, lower consumption

The WA 300 costs approx. 30 % less than with a 3-phase current operator, and daily power consumption is reduced by up to 75 %.



Simple and fast fitting and start-up

since many components have already been preassembled and no closing edge safety devices or cable slack switches have to be fitted.

For further information, please see the fitting data or contact your Hörmann partner.

As standard with WA 300 S4

- Soft start and soft stop for gentle and quiet door travel
- Power limit in "Open"/"Close" directions
- Integrated control with push button DTH R
- Small side room of only 200 mm
- No installations or cabling required on the door*
- Only approx. 1 watt power consumption in stand-by mode (if no other electrical accessories are connected)

* Except for doors with wicket doors



Diagonal fitting variant



Vertical fitting variant

Operator to flange WA 400

This patented flange version is simple and quick to fit to the spring shaft and requires considerably less sideroom than the direct drive solutions from other manufacturers.

**Can be combined with controls
A / B 445, A / B 460, B 460 FU**



Standard fitting position: horizontal, alternatively vertical, shown with an optional emergency hand chain

Operator with chain box WA 400

We recommend the WA 400 operator with chain box for all types of doors up to a height of 7000 mm if there is little sideroom. For applications L and LD an operator with chain box is required. Due to the indirect transmission of forces, the door is subjected to minimum wear and friction.

**Can be combined with controls
A / B 445, A / B 460, B 460 FU**



Standard fitting position: vertical, shown with an optional emergency hand chain

Manually operated doors

As standard with pull rope or pull rod

Optional operation options



Optional: Hand pulley with rope or link steel chain



Optional: Chain hoist



Optional: Chain tensioner for easier operation

Securely locked as standard



Shootbolt

Prepared for an on-site padlock for use as a secure night door.



Only from Hörmann

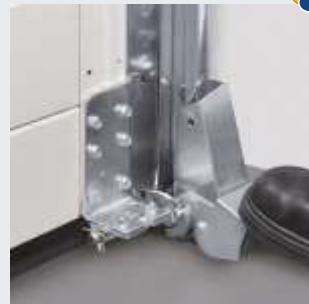


Rotary latch

An automatic latching disc securely latches the door. On request for doors with VU / WB and HU / RB tracks (with spring shaft at bottom).



Only from Hörmann



EUROPEAN PATENT

Floor locking

Extremely practical for frequently used doors. Convenient foot release. The automatic latch audibly engages when closed.

Further information
can be found in the
Hörmann brochures

The best proof of quality: sophisticated technology to the last detail

1 Quiet door travel

Hinged roller holders made of galvanized steel with adjustable plastic rollers on ball-bearings ensure precise, quiet door travel.

Particularly service-friendly

If the frame is damaged in a collision, the **bolted tracks** can be exchanged easily and inexpensively.

2 Galvanized, articulated roller holder

The articulated roller holder reduces the headroom and protects the top door section from excessive bending when the door is open.

3 Strong-holding connections

Stable centre hinges made of galvanized steel connect the individual door sections precisely. Edge profiling of the door sections has been designed so that the screws are held by four layers of sheet and are resistant to tearing out.

4 Upper frame end with connecting bracket

Permanently defined positions for the spring shaft bracket make it easier to fit the entire spring shaft.

Connection of spring shaft to cable drum

A separate feather key is not required; instead, a secure diecast connection increases functional safety and is easy to fit. The shaft is galvanized, **the springs are shot-blasted and coated.**

Flexible shaft coupling

Low variation in the axial alignment can be compensated by the flexible shaft coupling.

5 Pre-fabricated suspension

Ceiling suspension of the tracks is achieved through special anchors with slotted holes, made of galvanized steel. They are pre-fabricated as much as possible for the respective fitting situation.

6

9

2

1

11

10

Safety features in accordance with European standard 13241-1



Doors must comply with the safety requirements of European standard 13241-1.
Have this confirmed by other manufacturers!

Hörmann products are tested and certified for:

Anti-fall safeguard

6 Reliable door guidance

The rollers are guided precisely in a **safety track** developed by Hörmann. This is why the door leaf cannot fall out during the turning phase or when parked near the ceiling.

7 Optimum counterbalance

The torsion spring assembly with grooved spring shaft ensures an optimum counterbalance. As a result, the door moves easily during the entire opening and closing phase.

8 Catch safety device (depending on equipment)

This load-dependent latch device is integrated in the load carrier for protection in case a cable or spring breaks. **European patent.**

9 Spring safety device (depending on equipment)

Stops the torsion spring shaft if a spring breaks and securely holds the door in this position. **European patent.**

Trap protection

10 Finger trap protection

The unique form of the door sections eliminates trap points, both on the outside and inside.

11 Internally guided cables

The carrying cables are guided on the inside between the door leaf and frame. No protruding components. This virtually excludes the risk of injuries. For doors with a low headroom track application, the load carrier consists of a carrying chain / carrying cable.

12 Side trap guards

The side frames are completely closed from top to bottom. This creates a secure side trap guard.

13 Closing edge safety device

Sensors monitor the bottom edge of the door and stop and reverse it if there is a hazard. A leading photocell ensures particularly safe monitoring of the closing edge. Obstructions are detected before they come into contact with the door.

SB rolling shutter

Maximum comfort for door openings up to 5000 × 4500 mm



Thanks to a simple construction with just a few components, rolling shutters are both economical and sturdy. The SB rolling shutter with innovative tension spring technology is an especially economical solution for hall openings with a low opening frequency.



Also manually operated
As rolling shutter up to 5000 x 4500 mm



Logistics

The optimal solution for low to medium-traffic, as a manually operated door or with operator WA 300 R S4



Agriculture

This robust, inexpensive solution with steel or aluminium profiles is available for door widths up to 5000 mm



Warehouses

Easy operation as a manual rolling shutter with tension spring assembly. Simple retrofitting of the WA 300 R S4 operator.

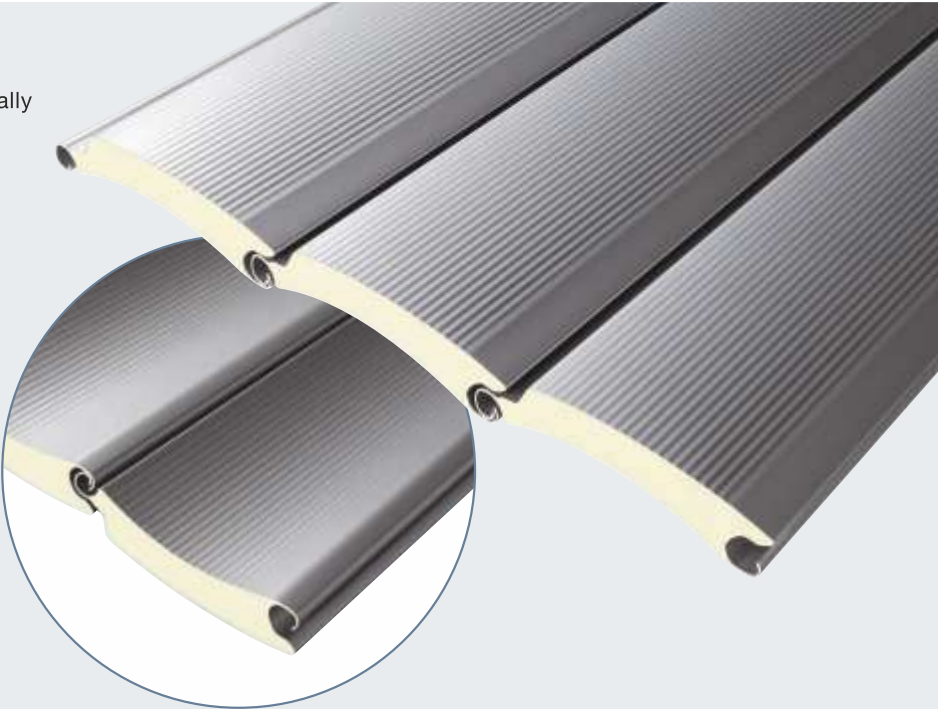
SB rolling shutter

Manually operated or optionally with operator WA 300 R S4

Decotherm S, steel

Special “full hard” steel makes these profiles especially resistant to damage caused by transport, fitting and operation. Either with or without colour coating.

The faceted inner profile face matches the micro-profiled outer face.



Profile type	Decotherm S
Material	Steel
Surfaces without colour coating	Galvanized without protective paint*
Standard colours	RAL 9002 RAL 9006
Profile height	109 mm
Curtain weight	Approx. 10.3 kg/m ²
Wind load class 2 up to a door width of	5000 m
Heat transmission EN 12428 (single profiles)	3.9W/(m ² ·K)
Door type	SB rolling shutter
Windows	•
Ventilation slots	–

* Differences in appearance between two doors may occur for technical reasons

- Optionally available
- Not available

Impossible to force open!

Increase the security of your property



External view



Viewed from inside



The break-in-resistant locks secure the bottom profile to the side guides.

Lockable bottom profile with profile cylinder

Actuation either from the interior and exterior or only from the interior.

Shootbolt for rolling shutter SB

The shootbolts are fitted on the interior left and right ends of the bottom profile.



Electromagnetic locking

The automatic locking in the "Close" position can also be connected to a central control system.

Operator WA 300 R S4

For rolling shutters SB



Soft start and soft stop

The WA 300 R S4 operator's standard soft start and soft stop functions ensure quiet door travel, reducing wear on the door and operator.

Power limit as standard

Thanks to the standard power limit in the "Open" and "Close" directions, the rolling shutter SB features high safety during opening and closing processes. In addition, the specified curtain variants and size ranges (see fig. "Impulse operation without closing edge safety device") do not require the installation of a closing edge safety device to meet the requirements of DIN EN 12453. Operator fitting is very easy, since no components need to be fitted on the curtain. The low amount of effort required for fitting, repair and other services provides additional savings.



Impulse operation without closing edge safety device

Size range for rolling shutters SB with Decotherm S curtain



Release directly on the operator as standard

With the integrated maintenance release, the door can be switched to manual operation at any time. This allows the door to remain fully functional, even in the event of a power failure. The release **1** can be converted to a secured release **2** at any time so that the operator can be disengaged conveniently from the floor.



Controls

For operator WA 300 R S4



	Internal control WA 300	External control 360
Operators		
WA 300 R S4	●	○
Functions / features		
Control and operator can be mounted separately		●
Adjustments made conveniently directly on the control		●
Soft start and soft stop for quiet door travel	●	●
Power limit in "Open" / "Close" directions ⁴⁾	●	●
Second opening height with additional button on the housing cover	○ ²⁾	●
Status and error display via LED	●	
Menu reading from outside with a double 7-segment display (maintenance, cycle and operating hours counters as well as error analysis)		●
Collective malfunction signalling with on-site individual display (acoustic, visual, or e.g. via mobile phone).		○
Extension possible with external radio receiver	●	●
Automatic timer ¹⁾	●	●
Traffic control ¹⁾		○
Integrated connecting terminals for additional command units	○	●
Function lock via miniature lock (convertible to profile half cylinder)	○	○
With closing edge safety device: see graphic "Impulse operation without closing edge safety device"	●	●
Without closing edge safety device: "Open / Close" in press-and-hold operation	●	●
Standard accessory: DTH R push button	●	
Power supply	230 V	230 V
Main switch integrated into control housing	○ ³⁾	○
Protection category IP 65 (jet-water protected) for controls and door leaf components	●	●

Integrated operator control with push button DTH R

Operator WA 300 R S4 can also optionally be supplied with external control 360 (prepared for traffic control).

For separate control of the door in the "Open" / "Close" positions, with separate stop button.

For controls
360, 435 R, 445 R, 460 R, B 455 R and integrated control WA 300 R S4

Dimensions:
90 × 160 × 55 mm (W × H × D)
Protection category: IP 65

● as standard

○ with corresponding equipment possibly with additional control

¹⁾ Only in combination with an activating kit for warning light and photocell or light grille

²⁾ Possible in combination with UAP 300 and DTH I or DTH IM

³⁾ In combination with push button control 300 U

⁴⁾ In the "Close" direction, the power limit is only in the indicated curtain variants and size ranges (see "Impulse operation without closing edge safety device")

New High-Speed Door

For Clean room & Pharma Applications



UPTO
50 Pa
DIFFERENTIAL
PRESSURE

Door type V 4015 Alu-R

Compact high speed door with innovative tubular drive, ideal for fitting situations in tight spaces.

Flexible High-Speed Doors

For air tight and differential pressure



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.



Easy to fit and service

The standard shaft cover is divided and can also be easily opened in the lintel area with limited space. The connection cables for the control are guided out of the frame via a variable output (top or side). It comes with tubular drive for upto 700000 door cycles in high use areas.

Door type V 4015 Alu-R

Thanks to the anodised aluminium surface finish of the side elements and top plates, the standard shaft cover in RAL 7035 grey color, the integrated wiring and few visible screw fittings, the door is very elegant and can also be used in the customer sector. The door is equipped with light grille and Aluminium 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.

V 4015 Alu-R comes with Aluminium bottom profile to withstand upto 50 Pa differential pressure.

The small gap dimension of the side elements and the lip seals also ensure very good door sealing. 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.



Curtain stability

Thanks to stabilising spring steel wind lock



High tightness

Due to a small frame gap dimension and lip seals

Air Permeability

8 m ³ /m ² h at 10 Pa
11 m ³ /m ² h at 20 Pa
13 m ³ /m ² h at 30 Pa
25 m ³ /m ² h at 50 Pa

New High-Speed Door

Reliable door for internal applications



Door type V 4010 SEL

Internal door with powerful drive

Flexible High-Speed Doors

Internal doors with SoftEdge and anti-crash

Compact Design

For a height upto 4000 mm, you can optionally receive the door with vision panel for better visual contact during forklift traffic and thus greater safety.

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 roll up door fabric curtain with vision fields and soft edge self-supporting door construction
- Resistance to wind load in acc. with EN12424 class 0
- The aluminium wind lock also makes the door particularly service-friendly
- Curtain segments can be quickly replaced if repairs are necessary



V 4010 SEL
Curtain stability with
aluminium profiles



V 4010 SEL
With safety grills

Flexible high-speed doors

For optimised material flow and improved efficiency



V 5015 SEL high-speed doors

Hörmann high-speed doors are used both inside and as exterior doors to optimise traffic flow, improve room air conditions and save energy. Your advantage: our SoftEdge technology with built-in crash-protection makes flexible high-speed doors extremely safe and economical.



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



Logistics

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



Areas with a low noise level

A door should cause little noise, too, and work quickly and reliably even with strong draughts. This is why the V 5030 SEL door type is equipped with spring steel wind locks that provide the necessary curtain stability.



Highly-frequented transport routes

V 6030 SEL high-speed doors are used both inside and as exterior doors to optimise the flow of traffic, improve room conditions and save energy.

High speed doors

Internal and external doors with SoftEdge and anti-crash



Door type	V 4010 SEL	V 4015 Alu-R	V 5015 SEL	V 6030 SEL
Internal door	●	●	●	●
External door	-	●	-	●
Size range				
Max. width (LDB)	4000 mm	4000 mm	5000 mm	5000 mm
Max. height (LDH)	4000 mm	4000 mm	5000 mm	6000 mm
Speed				
With standard FU control BK 150 FU E H				
Max. opening speed	1.0 m/s	1.5 m/s	1.5 m/s	2.0 m/s
Max. closing speed	0.8 m/s	0.8 m/s	0.8 m/s	0.8 m/s
Optional control AS 500 FU E				
Max. opening speed	-	-	-	3.0 m/s
Max. closing speed	-	-	-	0.8 m/s
Emergency opening	Crank handle Optional: Hand chain, Automatic door opening via UPS in case of power failure	Optional: Automatic door opening via UPS in case of power failure	Crank handle Optional: Automatic door opening via UPS in case of power failure (BK 150 FU E H UPS , 230V)	Crank handle Optional: Automatic door opening via UPS in case of power failure (BK 150 FU E H UPS , 230V), counter weights with back-up battery
Curtain	UPVC, aluminium profile	UPVC, with spring steel wind locks and lateral twin rollers	With aluminium profile	Spring steel wind lock with lateral twin rollers and tensioning system
Fabric thickness	1.5 mm	1.5 mm	1.5 mm	1.5 mm
Vision panel thickness	2.0 mm	2.0 mm	2.0 mm	2.0 mm
Resistance to wind load (EN 12424)	-	Class 3 120 km/h	-	Class 2 100km/h
Curtain colours				
RAL 2004 Pure orange	●	●	●	●
RAL 3002 Carmine red	●	●	●	●
RAL 5010 Gentian blue	●	●	●	●
RAL 7038 Agate grey	●	●	●	●

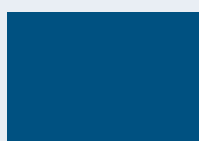
Curtain colours



RAL 2004
Pure orange



RAL 3002
Carmine red



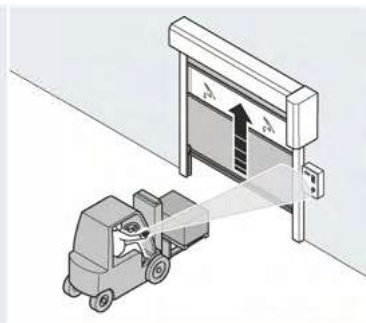
RAL 5010
Gentian blue



RAL 7038
Agate grey

Accessories

Operating and controlling options



Radio remote controls



4-button hand transmitter HS 4



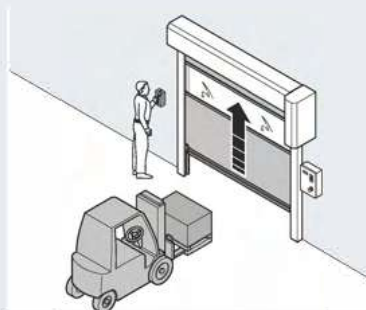
1-button hand transmitter HS 1



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



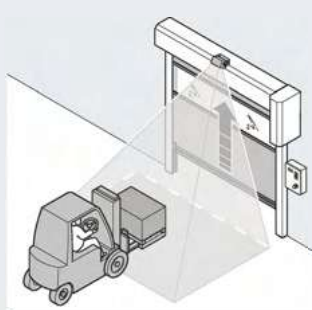
Receiver HER 1 (1-channel)
with volt-free relay output in a separate housing without connecting lead or as a **plug-in circuit board in the control cabinet**



Manually operated impulse generators



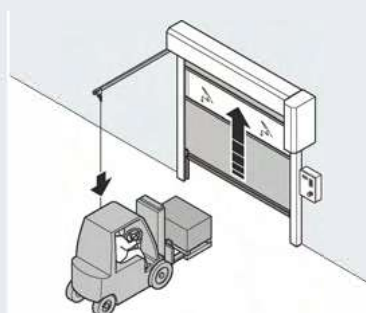
Push button
2 x or 3 x
"Open / Close"
Plastic housing IP 65



Remote controls



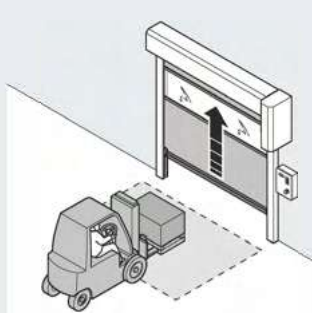
Radar / presence detector Comfort
Radar movement and presence detection with infrared detection, fast and targeted automatic door opening, reliable advance protection, up to a height of max. 6 m, in areas with high levels of humidity and in outside areas, only the radar function is available, housing: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



Manually operated impulse generators



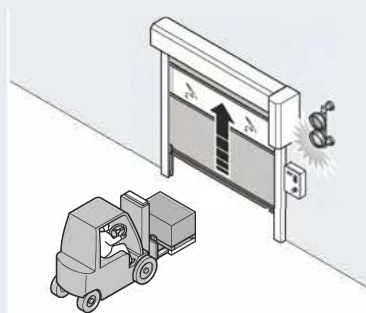
Pull switch with plastic pull cord
Horizontal or vertical fitting possible, aluminium die-cast housing IP 65, cord length 4 m



Induction loops



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



Safety equipment



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



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



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



Flashing warning light
Orange, in plastic housing, IP 65

Loading technology

Modern logistics with integrated docking systems



Hörmann provides you with all the components for your loading bay from a single source: dock levellers, dock shelters, loading houses and buffers. Developed and manufactured in-house, Hörmann products are optimally tailored to each other, which ensures smooth loading and unloading.



Logistics

Hinged lip dock levellers with a length of up to 5 metres, they can bridge large height differences between the ramp and the lorry loading level.

All Hörmann dock levellers comply with the requirements of EN 1398.



Logistics

Hörmann flap dock shelters adjust to the lorry's size and can thus be used universally. As dock or roadway models, they are available in many variations and can therefore be optimally customised to most situations.



Warehouses

Inflatable dock seals adjust particularly well to the different lorry sizes. The excellent seal mostly prevents the entrance of cold into heated buildings or of heat into refrigerated warehouses, saving energy.

HLS dock levellers

Detailed quality for long, sustainable use

Pit model P

For new buildings and renovations

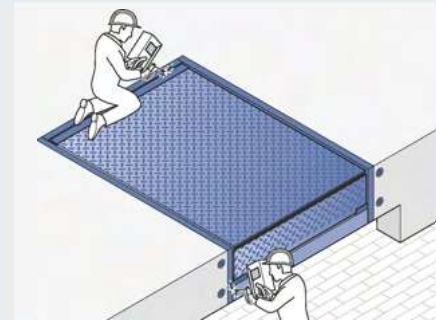
Basic model, open on 3 sides

Welded on the reverse face and front

The dock leveller is placed in an existing concrete opening that is already equipped with edge brackets. This fitting variant is also suited for the renovation of loading bays.



Rear view of pit model P

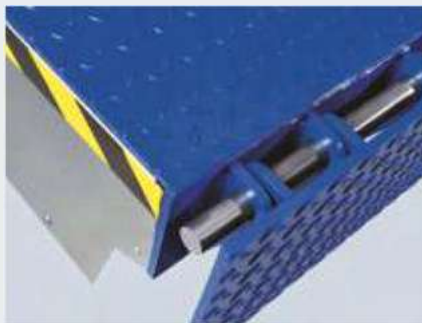


Welded on the reverse face and front



Flat transitions

The flat transitions from the platform to the lip and to the loading surface ensure safe loading.



Robust hinged lip

The open design with hinge points close to one another prevents the accumulation of dirt, such as wood shavings, in the hinge.



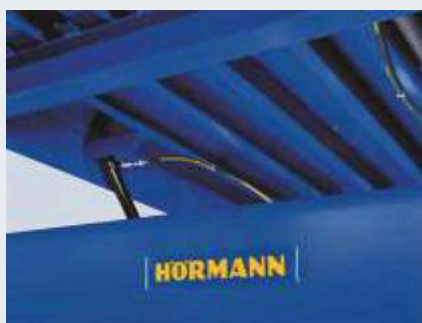
Safe, reliable operation

2 hydraulic cylinders ensure the balanced, reliable and, most importantly, safe operation of the dock leveller. It comes equipped with automatic emergency-stop valves.



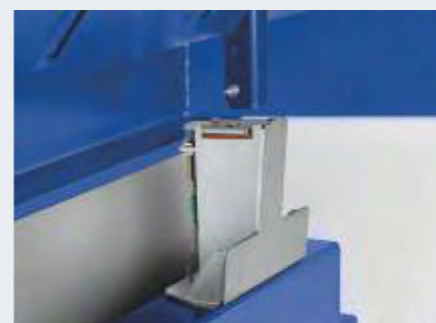
Long-lasting design

A high-quality running plate, 6/8 or 8/10 mm thick, with a standard rated load of 60 kN permanently carries goods and transport equipment.



Reinforcements on the underside

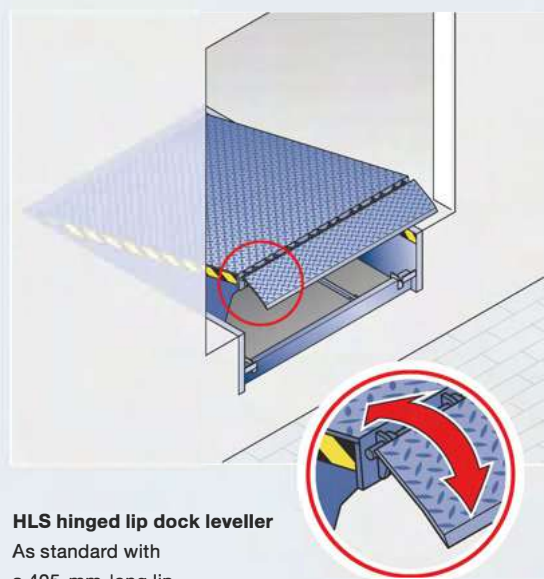
The number and design of the girders prevent deformation (track groves) beyond the degree required by EN 1398.



Noise-reducing pedestal

Steel meeting steel results in a noise that is neither pleasant nor healthy for employees. Rubber buffers on the telescopic lip dock leveller pedestals reduce the contact noise when positioning the platform.

Hinged lip dock leveller



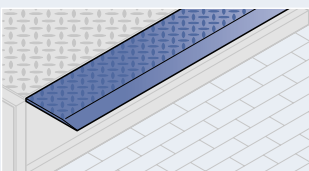
HLS hinged lip dock leveller

As standard with
a 405-mm-long lip.

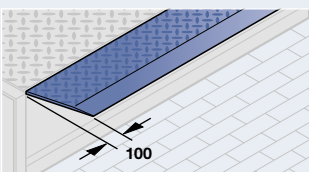
The electronic hydraulic system moves the platform to the highest position and then automatically extends the hinged lip. The platform is then lowered until the hinged lip is placed on the loading surface. Now the lorry can be quickly and safely loaded and unloaded. Particularly strong hinges and the continuous hinge band guarantee reliable functioning. The open design keeps the hinges free of dirt.

For especially heavy goods, for example when loading paper, the hinged lip dock leveller is also available for rated loads up to 180 kN dynamic loads.

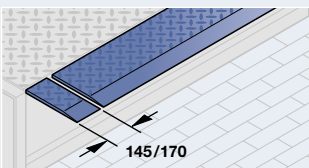
Lip shapes



Type R, straight
Standard up to 2000 mm
ordering width



Type S, angled



Type SG, with separate lip segments to accommodate different lorry widths for hinged lip dock levellers 145 mm, the segments can be loaded with up to 1 tonne

Standard equipment

Rated load/carrying capacity

Hörmann dock levellers have a carrying capacity of 60 kN-dynamic load as standard (rated load according to EN 1398). Higher rated loads of 90 kN or 180 kN dynamic loads for HLS 2.

Gradient/slope

See "Determination of the levelling"
(acc. to EN 1398 max. 12.5 % allowed).

Surfaces

Moulded, slip-resistant steel, shot-blasted or anodised and coated with two-component PU varnish. Optionally also available completely galvanized, recommended for outdoor use, for example in loading houses.

Colours

Ultra marine blue (RAL 5002) or Traffic black (RAL 9017), other colours based on RAL available upon request.

Special equipment



Acoustic insulation

This additional coating on the platform and lip reduces the contact noise and thus creates a pleasant work environment.



Gap sealing

For dock levellers that are fitted inside the building, we recommend gap sealing. When the dock leveller is not active, it seals the side gap and prevents drafts as well as the escape of warm air.

Dimensions

Standard Width

2000 mm
2100 mm
2250 mm

Standard Length

2500 mm
2750 mm
3000 mm

Flap dock shelters

The lorry determines the dimensions

Ask yourself:

- How high is the loading bay?
- How wide and how high are the docking vehicles?
- Do different lorry sizes have to load at the same loading bay?
- What type of goods are loaded?

Use the table below to carefully determine the required size of the front opening. This is the only way to achieve optimal sealing.

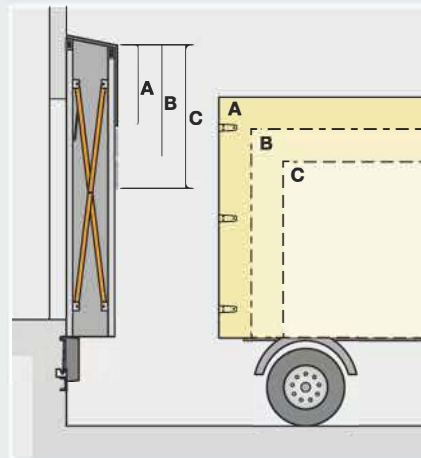
Ideally, the dock seal is 850 mm higher and 1000 mm wider than the lorry.

While a long top flap ensures good sealing even with smaller lorries, it hangs over the loading opening of larger vehicles. An overlap of approximately 150 mm is ideal.

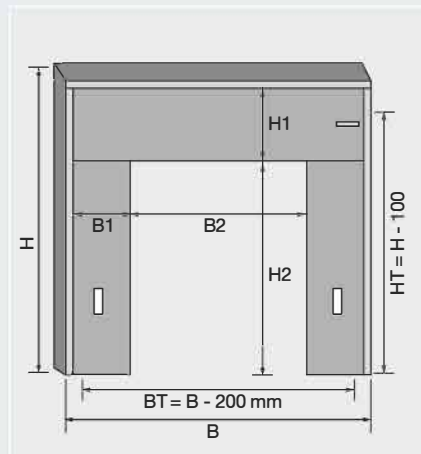
The correct combination of flap width and depth results in optimal sealing. In Hörmann dock seals, a depth of 500 mm has been tried and tested in practical application. If required by the customers, dock seals are also available with 600 mm depth, type DS even with a depth of 900 mm, which is ideal, for example, for MRS mechanical dock levellers that are fitted in front of the ramp.

Standard widths: 3350/3500 mm
Standard heights: 3500/3750 mm
(Roadway model 4500 mm high)

For fitting the dock seal, the door opening may have the following maximum dimensions:
Door width = Width of the dock seal – 200 mm
Door height = Height of the dock seal – 100 mm



Adjust the height of the top flap to the vehicle height. Optimal: 150 mm overlap.



B Width
B1 Side flap
B2 Front opening
BT Door opening width
H Height
H1 Top flap
H2 Front opening
HT Door opening height

B Dock shelter width		DSL	
	B1 side flap	600	700
3300	B2 front opening	-	-
3350		2150	1950
3400		-	-
3500		2300	2100

Front opening width = Dock seal width – (2 × width of side flaps)

H dock seal height		DSL		
	H1 top flap	900	1000	1200
3500	H2 front opening	2500	2400	2200
3750		2750	2650	2450
4500*		3500	3400	3200

Front opening height = Dock seal height – top flap height – 100 (drainage)

* Roadway model

all dimensions in mm

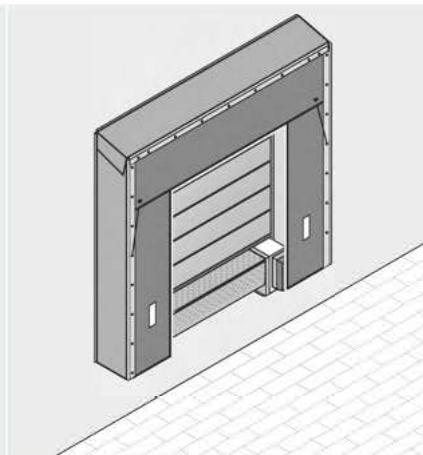


Hörmann practical application tip

Equip the docking zone with wheel guides. They ensure that the lorries always dock correctly, allowing the flap shelter to seal properly and collision damage is prevented.

DSL dock seal with link arm

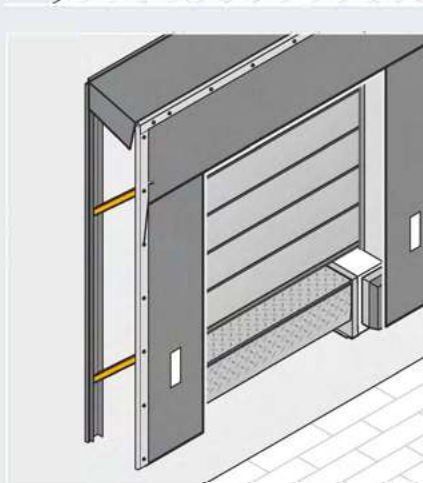
For normal loading frequencies, dock seal DS is the ideal choice. The side and top flaps consist of 2-layered, 3-mm-thick substrate fabric made of polyester monofilament threads with double-sided UPVC coating. For docked lorries, the monofilament threads in the flap material ensure the necessary pre-tensioning/seal of the lorry's reverse side. If the vehicle heights differ greatly, a top flap with laminated corners or a fully laminated top flap can be a good choice to prevent excessive tension of the top flap with high vehicles.



Standard widths: 3350 / 3500 mm
Standard heights: 3500 / 3750 mm,
optionally as roadway model,
4500 mm high, or recess model

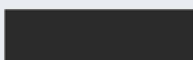
Link arm construction

Due to their special frame profiles, link arms are flexible both horizontally and vertically.



Colours

Only graphite black, similar to RAL 9011



Inflatable dock seals

Flexible sealing without restriction to the door opening area

Design features

1 Frame construction

The roof and side cladding are made of insulated steel panels, 20 mm thick. They are available in a choice of White aluminium, RAL 9006, or Grey white, RAL 9002, with anodised aluminium corner profiles with a rounded softline look.

2 Flap and fabric

The side and top flaps consist of 2-layered, 3-mm-thick substrate fabric made of polyester monofilament threads with double-sided UPVC coating which protect the inflatable cushions. The cushions consist of weather-resistant flexible and high frequency-welded flap material in Graphite black, RAL 9011.

3 Blower

The powerful blower is in operation during the entire loading process and thus guarantees a constant seal.

Ventilation slots ensure the required pressure compensation and drain condensation water.

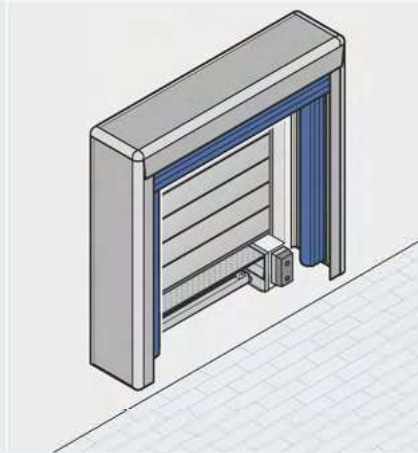
4 Corner sealing cushions

As standard, the DAS-3 is available with a foam-filled corner sealing cushion and optionally with inflatable corner sealing cushions.



DAS-3 dock seal

Only after the lorry has docked, the fan inflates the dock seal around the vehicle, fully sealing the loading area within a few seconds. This type of dock seal is especially recommended for DOBO systems, for refrigerated warehouses and extended loading times. It is available upon request with a roll-up flap instead of an inflatable top cushion. Corner sealing cushions are included as standard in the scope of delivery, optionally also as inflatable versions. They seal the bottom section, between the wall connection and the side cushions.



DAS-3

3-sided inflatable dock seal, optionally as a recess model

Standard size:

3600 × 3550 × 850 mm (W × H × D)

Front opening in the home position:

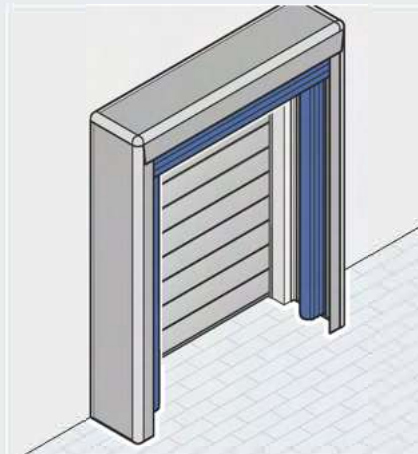
3100 × 3150 mm (W × H)

With inflated cushions:

2400 × 2550 mm (W × H)

Dock seal DAS-G-3, roadway model

The roadway model allows unimpeded passage into the building with deflated cushions. It is available upon request with an electric roll-up flap instead of an inflatable top cushion.



Roadway model DAS-G-3

Like DAS-3, standard size:

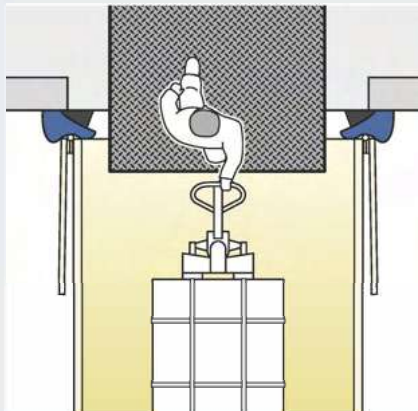
3600 × 4700 × 850 mm (W × H × D)

Front opening in the home position:

3100 × 4300 mm (W × H)

With inflated cushion:

2400 × 3700 mm (W × H)



Advantage of fixed side cushions

With cushion dock seals the space between the outside of the container and the open doors is sealed.

Accessories

Buffer made of rubber or PU effectively dampen the start up forces

They are available in different sizes and shapes. Buffers made of polyurethane (DB 15 PU) have a much longer service life compared to conventional rubber buffers.



Buffers in various sizes and shapes

Polyurethane buffers are particularly long-lasting

Steel buffers for particularly high requirements

The steel buffer consists of a full-surface dampening interior core and a robust external steel plate that is placed on the ramp edge for static relief.



Steel buffers for particularly high requirements

Flexible bumpers

Flexible bumpers follow the up and down movements of the lorry during loading and unloading. In addition, height-adjustable versions offer the opportunity of driving the bumper up to 250 mm upwards and lock it there. They are indispensable for the DOBO system. Flexible bumpers are available as rubber, PU or steel buffers.



Flexible bumpers follow the movement of the lorry during loading and unloading

Warning lights / signal systems

They signal, for example, when loading can take place or whether the driver can move away from the loading area. They also warn from safety risks.





Wheel chock

A wheel chock prevents the lorry from leaving the safe docking position during the loading process, e.g. by braking of the forklift when driving in or out

Wheel chock with sensor

To ensure that the wheel chock is used properly, we recommend the version with a sensor. This can be connected to every Hörmann dock leveller and releases the dock leveller with the correct contact.

In addition to the optical sensor, Hörmann wheel chock WSPG features an additional location sensor that prevents manipulation, for example by turning of the wheel chock.



Wheel guides

Wheel guides are used to support the driver in docking. At the same time, they guide the lorry straight into the loading bay or dock seal / shelter. This prevents damage to vehicles, ramps and dock shelters and ensures efficient sealing. Wheel guides are available in straight and curved versions.



Docklight

Docklights provide a safe and bright work environment and good illumination of the loading area. The energy-efficient LED docklight is recommended above all in addition to the halogen version DL 1300. With 30 W power input, it ensures uniform, good illumination.



T 240

 **certifire**

DECOTHERM S FRS

T120

T180

T240

Specification

- BS476 Part 22 upto 4 hrs

Slats

- 0.8mm to 1.2mm depending on shutter size.

Space Requirement

- Bearing side : 150 mm
- Motor Side : 200 mm

Guide Rail

- 3 mm thick bent single piece
- Superior strength

Bottom Bar

- 100 mm fabricated from 2 piece
50mm X 50mm X 5mm thick
steel angle.

Operator

- 220 V 50 Hz single phase or
415 V 50 Hz three phase based
on sizes.
- Push Button with IP 66
protection

Fire accessories

- Fusible link (71) and solenoid
release system
- Fire Alarm Back up
panel(optional) with 2 X 12V
battery to descend the shutter,
if fire alarm triggered in power
off situation.

BSF

- Barrel Support Frame(BSF)-As
standard for all fire rolling
shutters, to have additional
support for the hood,during fire
situation.

Sizes (W x H)

- Min : 2000mm X 2000mm
- Max : 6000mm X 6000mm

- Hormann is committed to highest standards of safety, performance, and quality.
- Hormann Fire Rolling Shutters are tested and certified as per BS 476 part 22 for 2 hours and 4 hours
- Hormann fire rolling shutter are tested at EXOVA Warrington- UK, for integrity and stability for a period of 265 mins.







Slats

- 0.8mm to 1.2mm depending on shutter size.

Space Requirement

- Bearing side : 150 mm
- Motor Side : 200 mm

Guide Rail

- 2 mm thick bent single piece guide rail, for superior strength

Bottom Bar

- 100 mm fabricated from 2 piece 50mm X 50mm X 5mm thick steel angle.

Operator

- 220 V 50 Hz single phase, 415 V 50 Hz three phase for bigger sizes.
- Push Button with IP 66 protection

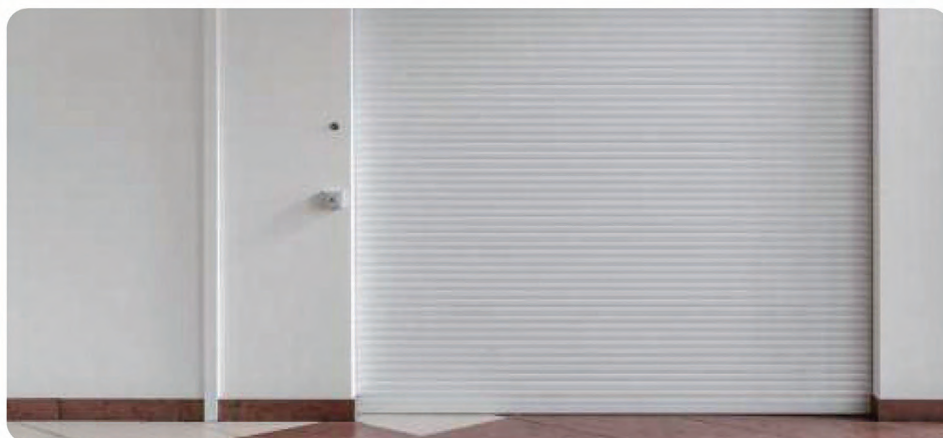
Sizes (W x H)

- Min : 2000mm X 2000mm
- Max : 6000mm X 6000mm

- Hormann range of single skin roller shutters.
- Suitable for industries warehouses, commercial, establishments.
- Hormann single skin roller shutters are ideal for application where high degree of security is required, coupled with consistent reliability.

Advantages and Features

- High Reliability & Durability
- Cost effective way of providing maximum security
- Quick and easy operation
- Sealing in the side guides for smooth and friction less travel.
- Bottom seals for proper closing at the floor level





Hörmann: Quality without compromise



Hörmann KG Amshausen, Germany



Hörmann KG Antriebstechnik, Germany



Hörmann KG Brandis, Germany



Hörmann KG Brockhagen, Germany



Hörmann KG Dissen, Germany



Hörmann KG Eckelhausen, Germany



Hörmann KG Freisen, Germany



Hörmann KG Ichtershausen, Germany



Hörmann KG Werne, Germany



Hörmann 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, India



GARAGE DOORS

OPERATORS

INDUSTRIAL DOORS

LOADING EQUIPMENT

HINGED DOORS

DOOR FRAMES



Shakti Hörmann Pvt. Ltd.

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