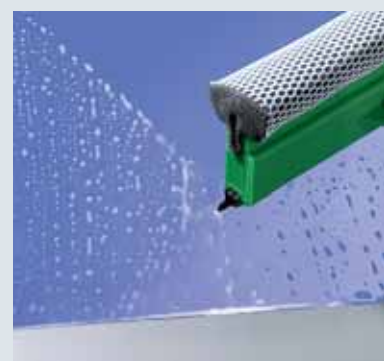


// NEW: ASP/ASR doors with invisible section seams



Marks and scratches from cleaning cannot be avoided on common synthetic glazing.



Lasting transparency with Hörmann's DURATEC glazing



Industrial Sectional Doors

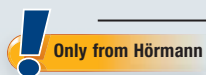
Better to be safe with the innovative wicket door with trip-free threshold







The know-how of the specialist 4



Only from Hörmann

DURATEC glazing, new profile construction,
wicket door with trip-free threshold, surfaces 10

SPU 40 Steel doors, double-skinned, thermally insulated, 42 mm 14

DPU Steel door with sections with thermal breaks, 80 mm 16

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with aluminium extrusion with thermal breaks, 42 mm 22

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The architects' programme and further
information on Hörmann products can be found
in the Internet under: www.hoermann.com

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Some of the illustrations include optional extras.



Reliable for the future thanks to the know-how of the specialist



In-house product development

At Hörmann new products, further development and detailed improvements represent an on-going process of our highly qualified development team. **This gives rise to patents and exclusive rankings in the marketplace.**



Qualified personnel

Many production processes today are computer-assisted, but as far as Hörmann is concerned, a responsible and conscientious workforce is equally important - throughout the course of production and in carrying out quality-assurance checks.



In-house production of door and operator systems

All the essential door and operator components, such as sections, frames, fittings, operators and control systems, are developed and produced by Hörmann in-house. This guarantees a high degree of compatibility between the door, operator and controls.

In order to ensure that the quality of production remains at a consistently high level, we use special production systems based on our own ideas.

When developing our products, we make sure that the door and operator form a perfectly matched system. Endurance tests ensure fully developed series products that you can rely on.

This is Hörmann quality – Made in Germany



For over four decades Hörmann has built up the industrial sectional door sector into a unique range, setting standards for the future in the process.



Modern colour coating

The colour of doors is playing an ever greater role in building design. Individuality is to be encouraged, but it must not result in a lower surface quality nor extend the delivery periods. Hörmann makes no compromises here, either. Computer-controlled colour coating systems guarantee the highest brilliance and exactness for special colours with short delivery times.



Tested foaming process

In order to attain a high level of stability and thermal insulation, the double-skinned sections are evenly filled with HCFC-free polyurethane rigid foam in a continuous computer-controlled process. **This guarantees high-stability light blockwork sandwich constructions with approved quality.**



Protecting the environment

Hörmann shows respect for the environment not only by using 100% HCFC-free PU rigid foam, but also with regard to its colour coating. Thanks to an ultra-modern regenerative exhaust air decontamination system, energy consumption is greatly reduced compared with previously used processes and the more stringent limit values of the future are already complied with today.



Quality management

First-rate products demand optimum conditions at every stage of the industrial process. The certified Quality Management System guarantees the highest level of quality from development, through production to shipping.



Hörmann industrial sectional doors are simply perfect



Competent advice

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



Sensible planning

Due to the variety of track applications, Hörmann sectional doors can be adapted to suit any type of building, whether new or old. Plan with Hörmann and you plan wisely.

Quickly delivered, safely packed

The door and operator systems are perfectly prepared for installation and are sensibly packed to ensure safe transportation. Thanks to the short delivery times, the door systems are delivered to your construction site in next to no time.





Forward-looking technology, detailed quality and reliable long-term functionality are crucial. Hörmann industrial sectional doors give you the assurance you are looking for right from the start.



Door fitting

Fitting of the door is carried out by trained personnel. This is your guarantee that each and every Hörmann industrial door system will operate with absolute reliability.



Efficient service

Our extensive service network means that we are never far away. This is a major advantage with respect to inspections, maintenance and repairs.



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.



System solutions pay off: Doors, operators and controls from a single source

A space-saving door system

Sectional doors open vertically upwards, creating space in front of and behind the door. In the building too, useful space is not wasted because the door sections are parked underneath the ceiling, parallel to the ceiling or vertically on the wall. Since the doors are fitted behind the opening, the clear passage width can be used in full. This virtually excludes the risk of damage.

Top door design

A uniquely broad range means that, in terms of both function and design, Hörmann sectional doors blend superbly into modern industrial architecture. From the standardised all-purpose unit to the highly individual designer-style building.





Hörmann industrial sectional doors, operators and controls are a perfectly co-ordinated system from a single source. This saves time and money!



State-of-the-art operator technology
 The operators and controls Hörmann offers are the outcome of its own in-house development and production. Perfectly matched components, subjected to endurance tests, give you the assurance that your door will perform well in continued use. The control system with a uniform operating concept and general 7-segment display* facilitates daily use. Identical housing sizes and cable sets not only simplify installation but also the addition of further functions at a later date.

* Except for the operator A/B 435



Only from Hörmann

Maximum scratch resistance with Hörmann's sectional door glazing

The new DURATEC glazing is available as standard and at no extra charge in all sectional doors with synthetic glazing – only from Hörmann.

A permanently clear view

Thanks to the new DURATEC synthetic glazing, Hörmann's sectional doors permanently retain their clear view even after many cleanings and with heavy use.

Better protection against scratches caused by cleaning

A special surface coating also used on car headlamps permanently protects the pane against marks and scratches from cleaning.

For more information on glazing types, see pages 38-39.

Sensitive, common synthetic glazing



Marks and scratches from cleaning cannot be avoided on common synthetic glazing.

DURATEC synthetic glazing with maximum scratch resistance



A clear view is maintained with the new DURATEC glazing, even after many cleanings.



Doors with extensive glazing and excellent thermal insulation



Previous 16-mm glazing with centre spacer



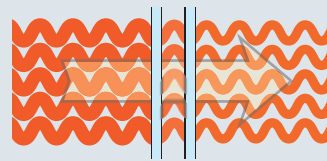
New 26-mm-thick glazing without centre spacer

A clear view without centre spacers

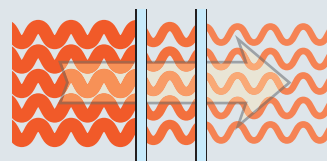
The new standard DURATEC glazing is 26 mm thick, so it no longer requires a centre spacer. This gives you a clear view into the building.

Improved thermal insulation

An additional advantage of the new 26-mm-thick glazing is the substantially improved thermal insulation. In comparison with 16-mm glazing, the thermal insulation value is up to 20% lower. Triple glazing with even better thermal insulation is optionally available.

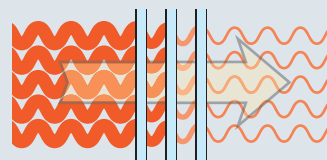


16-mm glazing



DURATEC double glazing

Up to 20% better thermal insulation with a 26-mm pane thickness



DURATEC triple glazing

Up to 30% better thermal insulation in comparison with 16-mm glazing

In the building

Exterior side

High thermal insulation with DURATEC double glazing and optimum thermal insulation with DURATEC triple glazing.

Improved energy efficiency for industrial sectional doors

- Optional triple glazing (see pages 38-39)
- ASP 40/ASR 40 sectional doors with new profile geometry (see pages 18-19 and 24-25)
- Faster door travel with a frequency converter operator (see page 48)



Stucco-textured



Micrograin

Lasting protection in two surface variants



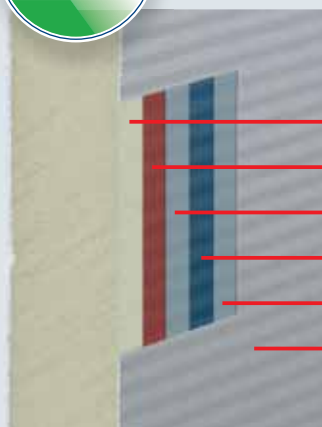
Stucco-textured surface

Hörmann's steel door surfaces are always based on hot-galvanized material and a high-adhesion primer-coating (2-component PUR) that protect the door against adverse effects of the weather. Additional Stucco texturing makes the door impervious to dirt and small scratches. The door leaf has uniform ribbing every 125 mm in the sections and section seams. Available in 14 preferred colours at no extra charge. On request, we supply the doors in one of 200 RAL and NCS colours. The inside of the door is coated in Grey white (similar to RAL 9002) as standard.

Micrograin surface

Micrograin features a smooth surface and characteristic fine lines. Section seams are finely ribbed. This new surface is standard for ASP doors. A Micrograin surface finish is optionally available for SPU, APU and TAP doors. Compound windows are always centred vertically in the section. Available in 14 preferred colours at no extra charge. On request, we supply the doors in one of 200 RAL and NCS colours. The inside of the door is Stucco-textured in Grey white as standard.

For more information on the available colours, please see pages 36-37.



Polyurethane (HCFC-free)

Bonding agent

Galvanized layer

Sheet steel

Galvanized layer

Primer coating

Quality in every layer and perfect long-term protection

The structure of the door sections is built up to guarantee utmost stability and robustness. The thick insulating core of high-grade PU rigid foam is applied evenly in a continuous computer-controlled process. The hot-galvanized sheet steel and high-adhesion polyester primer-coating provide optimum, long-term protection against adverse effects of the weather and heavy usage. The result: A material composite that guarantees a long service life.

Surfaces from the sectional garage door programme are available on request.



The wicket door with trip-free threshold as fully-fledged escape route

Only Hörmann's wicket doors with trip-free thresholds can be used in automatic operation without any limitations, thanks to the VL2 leading photocell.

Avoid accident risks

In daily use, wicket doors with trip-free thresholds pose less of a risk for persons stumbling and injuring themselves. Tool cars or trolleys can easily pass over the very flat stainless steel threshold with rounded edges.

Optimally sealed

Despite its flat construction, the adjustable threshold profile with flexible seal compensates for unevenness in the floor and optimally seals the bottom edge of the door.

Also as an escape door

In certain circumstances Hörmann wicket doors with trip-free threshold up to a width of 5500 mm fulfil the requirements of an escape door.

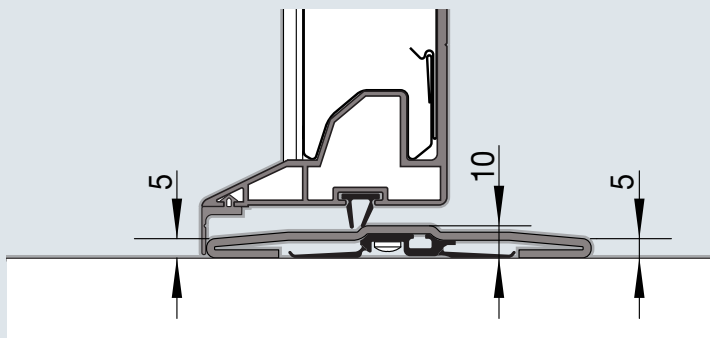
Accessibility

Under certain conditions, Hörmann wicket doors with trip-free thresholds fulfil requirements for accessibility in accordance with DIN EN 18040-1.

For detailed information on wicket and side doors, see pages 34-35.



Separately adjustable door seal for door and wicket door
Compensates for any slight unevenness in the floor.



An extra-flat threshold

The stainless steel threshold is 5 mm high on both sides and permanently fixed to the bottom section. When the door is opened, there is no bottom profile to hinder easy passage.



SPU 40

Sturdy double-skinned steel door with good thermal insulation

For use in heated halls

Industrial doors must not only be extremely sturdy, they also must exhibit good thermal insulation characteristics. Hörmann's SPU 40 door is a proven sectional door made of steel sections that optimally fulfils these requirements. Thanks to a combination of steel and PU rigid foam, the door leaf is both robust and insulating.

The elegant Micrograin surface // NEW

With its delicately lined profile, and a smooth surface with subtle ribbing at the section seams, this impressive new surface complements the elegance of modern architecture.

Exquisite workmanship

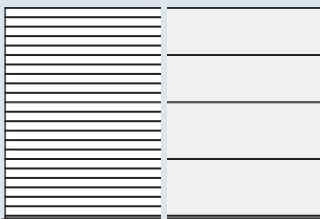
The hollow space in the double-skinned door leaf is uniformly foam-filled, which binds the 100% HCFC-free polyurethane rigid foam to the steel shell. This 42-mm-thick insulating core provides for the convincing robustness and thermal insulation. The surface of SPU 40 doors is Stucco-textured as standard, but the door is also optionally available in an elegant Micrograin version. Depending on the overall height of the door, sections are provided in the height combinations 625/750 mm and 375/500 mm. Optional glazing provides natural light inside. Secure and practical pedestrian passage is possible with an additional wicket door with trip-free threshold.



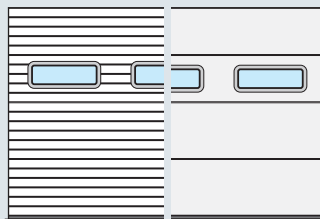


Numerous planning options for builders and logistics companies

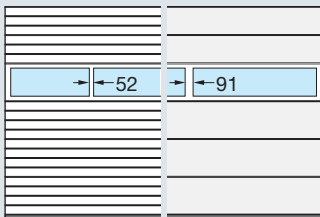
Door versions (examples*)



Door version without glazing
Door section heights: 375, 500, 625, 750 mm



With compound window type A
Door section heights: 500, 625, 750 mm



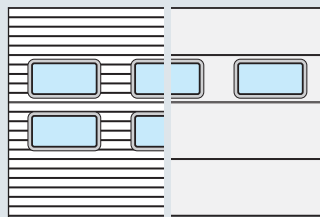
With aluminium glazing frame
Frame height: 500, 625, 750 mm
Model **N** with narrow window sections and model **B** with wide window sections



With compound window type D
Door section heights: 500, 625, 750 mm



Doors with wicket door and without trip-free threshold are available in widths up to 7000 mm.



With compound window type E
For door section heights: 625, 750 mm

Technical data

Size range

Width up to 8000 mm
Height up to 7000 mm

Resistance to wind load

Class 3



Water-tightness

Class 3 (70 Pa)



Air permeability

Class 2 (with wicket door category 1)



Sound insulation

R = 22 dB



Thermal insulation

For 25 m² door surface without wicket door U = 1.0 W/m²K

For 25 m² door surface with wicket door U = 1.2 W/m²K

Section: U = 0.5 W/m²K



¹⁾ EN 12424; ²⁾ EN 12425; ³⁾ EN 12426; ⁴⁾ EN 717-1;

⁵⁾ EN 13241, annex B EN 12428

Safety features in acc. with EN 13241-1 are listed on page 45.

Please refer to the technical manual for further information.

* Figure with Stucco-textured surface at left and Micrograin surface at right



DPU

Double insulated steel door for large temperature differences

Thermal protection lowers operating costs

Fresh goods must be transported and stored in a closed cold chain from the manufacturer to the end customer. This requirement demands a high level of energy in every cooling process. The DPU door minimises temperature losses at door openings, making it ideal for use in cold store warehouses.

Systematic insulation

The hollow space in the double-skinned steel door is uniformly foam-filled with 100% HCFC-free polyurethane rigid foam, binding the material to the steel shell. The insulating core in DPU doors is 80 mm thick, providing it with excellent insulation values. Double seals at the lintel and floor increase door sealing and thus effectively reduce energy losses.

The steel sections of the DPU door have thermal breaks on the interior and exterior. This ensures for a thermal insulation value of up to 0.7 W/m²K and reduces the accumulation of condensation on the inside of the door.

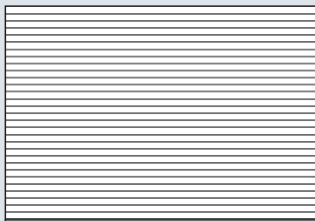




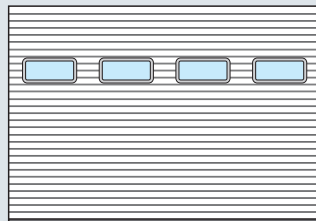
Approx. 30% more thermal insulation

The energy-saving door specifically for fresh logistics

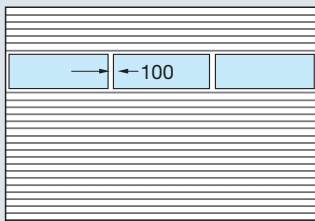
Door versions (examples)



Door model without glazing



With sandwich window type A



With aluminium glazing frames available up to 8000 mm width

Make use of daylight

Aluminium glazing frames not only bring more light into cold storage, the extrusions with thermal breaks (depth: 80 mm) and GRP-reinforced polyamide spacers also provide a high level of insulation. DPU sectional doors are also available with matching compound glazing in three versions, with synthetic, double, triple or quadruple panes.

Technical data

Size range

Width up to 6000 mm (torsion spring)
 Width up to 10000 mm (direct operator)
 Height up to 5000 mm (torsion spring)
 Height up to 8000 mm (direct operator)

Resistance to wind load

Class 3



Water-tightness

Class 3 (70 Pa)



Air permeability

Class 3



Sound insulation

R = 22 dB



Thermal insulation

For 25 m² door surface U = 0.7 W/m²K
 Section: U = 0.3 W/m²K



1) EN 12424; 2) EN 12425; 3) EN 12426; 4) EN 717-1;
 5) EN 13241, annex B EN 12428

Safety features in acc. with EN 13241-1 are listed on page 45.

Please refer to the technical manual for further information.



ASP 40

An elegant aluminium door with Micrograin bottom section // NEW

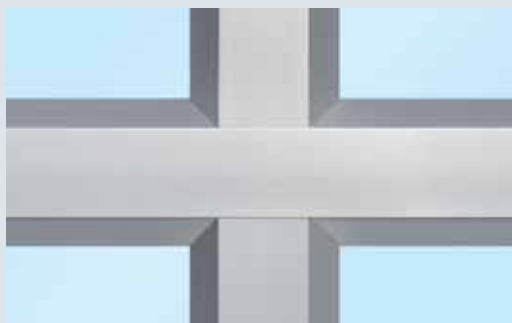
Slim profile architecture

The fully new frame construction for the ASP 40 door features a slim profile view and invisible section seams. This door can be optimally incorporated in modern industrial architecture with extensive glazing. In addition to an attractive appearance, the ASP 40 door has the sturdiness required for daily use.

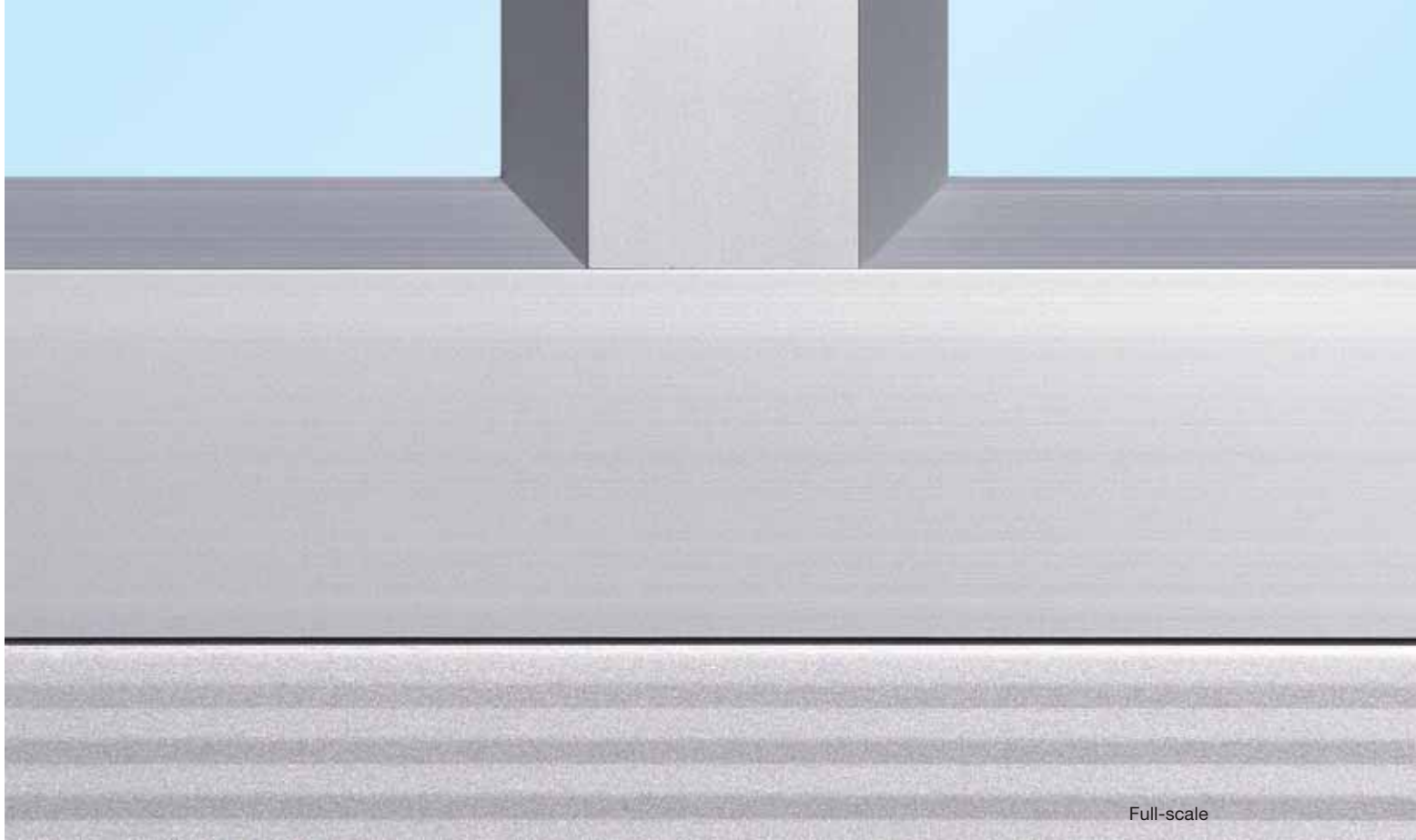
Light and good thermal insulation

The aluminium profiles in ASP 40 doors are only 65 mm wide, allowing more light to enter the building. The vertical and horizontal door rails have an identical width, which results in a harmonious door appearance. The clear view is improved with the new 26-mm-thick DURATEC glazing that does not require a centre spacer.

The double-skinned bottom section is foam-filled with PU rigid foam and is available in an elegant Micrograin surface. The interior is Stucco-textured. In addition to its high stability and transparency, the ASP 40 door also offers good thermal insulation.



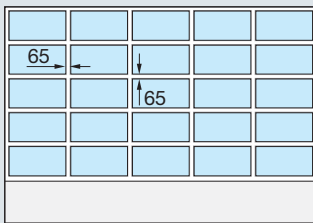
Invisible section seams in the glazing frames



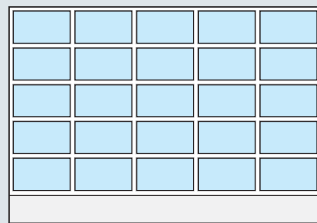
Full-scale

The slim profile with stable bottom section

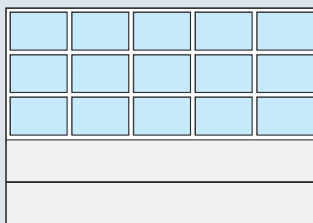
Door versions (examples)



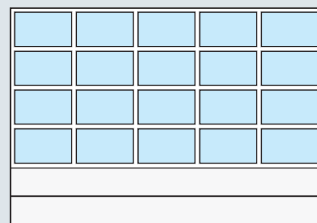
Standard bottom section height 750 mm



Optional bottom section height 500 mm



Optional bottom section height 1500 mm (2 sections, each 750 mm)



Optional bottom section height 1000 mm (2 sections, each 500 mm)

Technical data

Size range

Width up to 5000 mm
Height up to 7000 mm

Resistance to wind load

Class 3



Water-tightness

Class 3 (70 Pa)



Air permeability

Class 2



Sound insulation

R = 19 dB



Thermal insulation

For 25 m² door surface U = 3.0 W/m²K
and optional triple glazing U = 2.6 W/m²K



1) EN 12424; 2) EN 12425; 3) EN 12426; 4) EN 717-1;
5) EN 13241, annex B EN 12428

Safety features in acc. with EN 13241-1 are listed on page 45.

Please refer to the technical manual for further information.



APU 40

Modern aluminium door with steel bottom section and many versions

Universal application

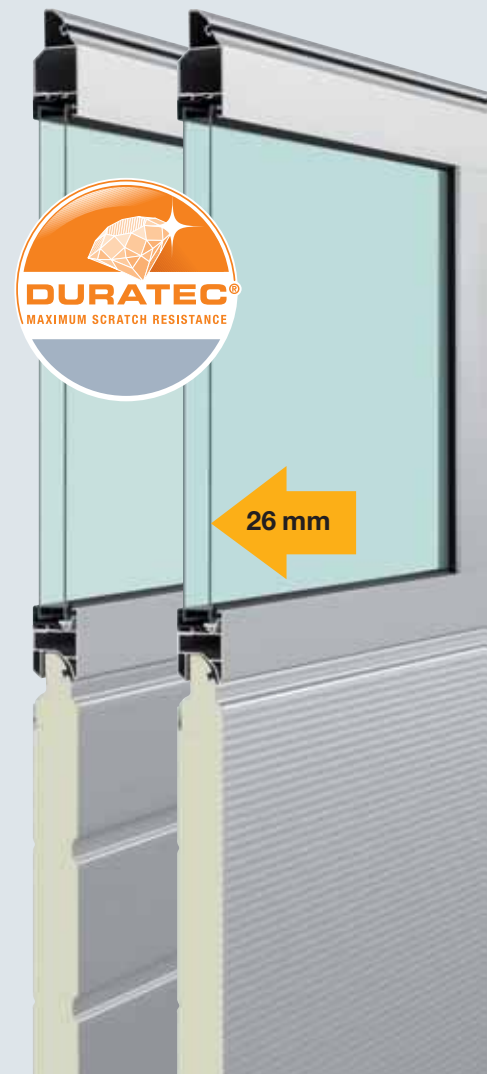
The combination of double-skinned steel bottom section and aluminium glazing frame has more than proven itself in practice. The APU 40 door is very stable and lets a lot of light into the building. It is one of the most popular Hörmann sectional doors for factory buildings, thanks to its appealing features and numerous variants.

An attractive appearance

The glazed door sections above the bottom section are always evenly spaced. APU 40 doors always have a bottom section that is 500, 750, 1000 or 1500 mm high.

Individual versions

The high stability is mainly due to a 42-mm-thick insulating core made of 100% HCFC-free polyurethane rigid foam used to uniformly foam-fill the bottom section. The door is reliably protected against corrosion and environmental conditions through a high-quality primer-coating on galvanized material, and via Stucco texturing. The door is optionally available with a Micrograin surface on the exterior. On request, the door comes with a wicket door with trip-free threshold for use as a practical pedestrian passage.



Sturdy bottom section



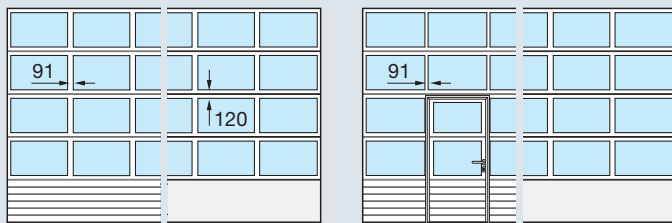
Price benefit
for wide window
sections

The right version for individual needs

Door models with narrow window N sections (Examples*)

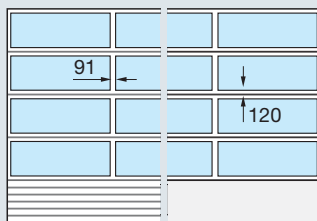


With 52-mm rail extrusion and 750-mm bottom section as standard for doors up to 5500 mm wide, optionally 500 mm, 1000 mm and 1500 mm



With 91-mm rail extrusion as standard for doors from 5510 mm wide, doors up to 5500 mm also available with a 91-mm rail extrusion on request

Door models with wide window B sections (examples*)



91-mm rail extrusion as standard, matching wicket doors available with narrow window N sections and 91-mm rail extrusion.

Doors with wicket door and without trip-free threshold are available in widths up to 7000 mm.

Technical data

Size range

Width up to 8000 mm
Height up to 7000 mm

Resistance to wind load

Class 3



Water-tightness

Class 3 (70 Pa)



Air permeability

Class 2 (with wicket door category 1)



Sound insulation

R = 19 dB



Thermal insulation

For 25 m² door surface without wicket door U = 3.0 W/m²K
and optional triple glazing U = 2.8 W/m²K
For 25 m² door surface with wicket door U = 3.2 W/m²K
and optional triple glazing U = 3.0 W/m²K



1) EN 12424; 2) EN 12425; 3) EN 12426; 4) EN 717-1;

5) EN 13241, annex B EN 12428

Safety features in acc. with EN 13241-1 are listed on page 45.

Please refer to the technical manual for further information.

* Figure with Stucco-textured surface at left and Micrograin surface at right



TAP 40

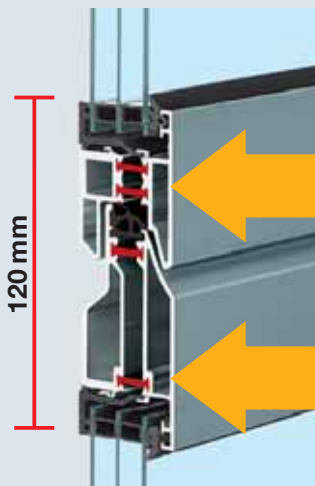
Steel/aluminium door with profiles with thermal breaks

A door with three benefits

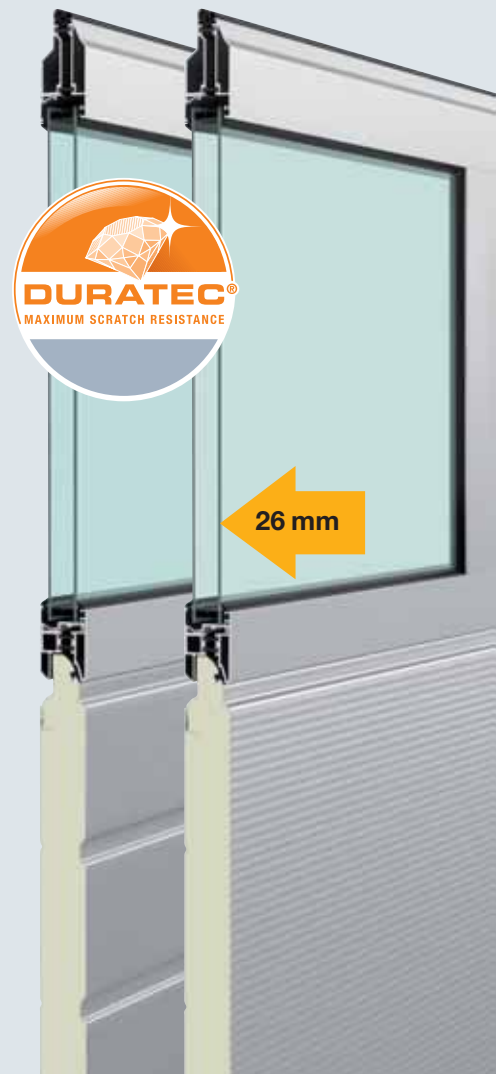
The TAP 40 door unifies three advantages: good thermal insulation, sufficient natural light and high stability. This thermal door is used in buildings that require a comfortable inside temperature, as well as a sturdy door, such as in automotive workshops.

Stability and thermal insulation

Good thermal insulation is achieved in the TAP 40 door through aluminium tubular profiles with thermal breaks. They separate the outer and inner shell with glass-fibre reinforced polyamide spacers and also have a non-positive connection. In addition, 26-mm-thick DURATEC double glazing ensures excellent insulation and a clear view, as it does not need a centre spacer. In addition to being very sturdy, the double-skinned steel bottom section with a 100% HCFC-free PU rigid foam infill provides excellent insulation.



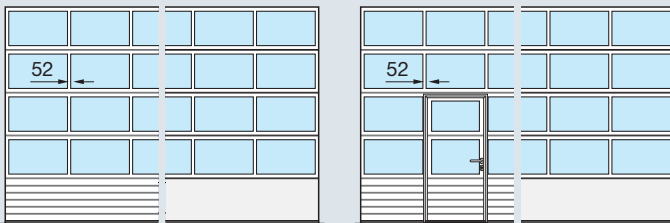
Thermal breaks in the frame profile via glass-fibre reinforced polyamide spacers (red) in conjunction with optional triple glazing.



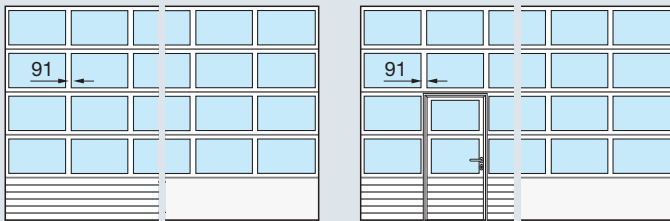


Good thermal insulation and abundant natural light

Door versions (examples*)



With 52-mm rail extrusion as standard for doors up to 5500 mm wide



With 91-mm rail extrusion as standard for doors from 5510 mm wide, doors up to 5500 mm also available with a 91-mm extrusion on request



The bottom section height for Micrograin and Stucco-textured surfaces is 750 mm high as standard and optionally 500 mm, 1000 mm and 1500 mm high

Doors with wicket door and without trip-free threshold are available in widths up to 7000 mm.

Technical data

Size range

Width up to 7000 mm
Height up to 7000 mm

Resistance to wind load

Class 3



Water-tightness

Class 3 (70 Pa)



Air permeability

Class 2 (with wicket door category 1)



Sound insulation

R = 19 dB



Thermal insulation

For 25 m² door surface without wicket door U = 2.5 W/m²K and optional triple glazing U = 2.3 W/m²K
For 25 m² door surface with wicket door U = 2.7 W/m²K and optional triple glazing U = 2.5 W/m²K



¹⁾ EN 12424; ²⁾ EN 12425; ³⁾ EN 12426; ⁴⁾ EN 717-1; ⁵⁾ EN 13241, annex B EN 12428

Safety features in acc. with EN 13241-1 are listed on page 45.

Please refer to the technical manual for further information.

* Left figure with Stucco-textured surface and right with Micrograin surface



ASR 40

Aluminium door with fine profiles for facades with extensive glazing // NEW

A more beautiful appearance for architecture accentuated by glass

The new frame construction of the ASR 40 door perfectly suits modern glass facades and it is practically impossible to tell apart from the fixed elements of the facade. The profiles have a uniform vertical and horizontal width of 65 mm. The door appears elegant and harmonious thanks to the profile symmetry and invisible section seams.

More natural light and an improved view

The slim profile view in the new ASR 40 industrial sectional doors provides your customers and passers-by with an unimpeded view into your sales and exhibition areas and also helps you make use of daylight.

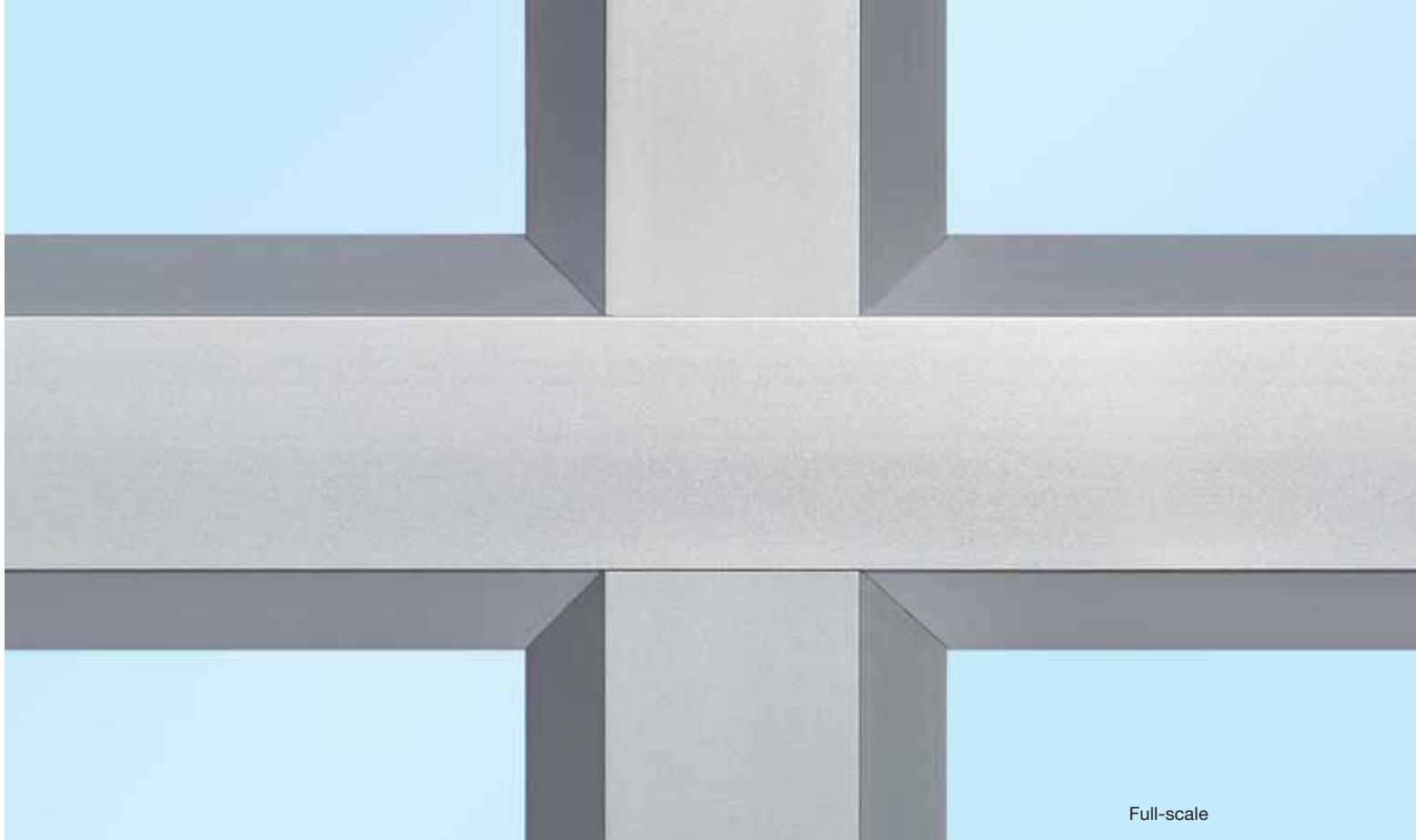
Transparency with optimum thermal insulation

The new 26-mm-thick DURATEC double glazing and intelligent profile geometry are responsible for the especially good thermal insulation in ASR 40 doors. As standard, the bottom section comes with a 26-mm-thick PU sandwich infill that is Stucco-textured on the exterior and interior. The fully glazed ASR 40 door is another, particularly attractive option.



Section seam with seal and finger trap protection





The slim profile with invisible section seams

Door versions (examples)



As standard with 65 mm profile view, horizontal and vertical, without visible section seam.

Technical data

Size range

Width up to 5000 mm
Height up to 7000 mm

Resistance to wind load

Class 3



Water-tightness

Class 3 (70 Pa)



Air permeability

Class 2



Sound insulation

R = 19 dB



Thermal insulation

For 25 m² door surface U = 3.2 W/m²K
and optional triple glazing U = 2.8 W/m²K



¹⁾ EN 12424; ²⁾ EN 12425; ³⁾ EN 12426; ⁴⁾ EN 717-1;

⁵⁾ EN 13241, annex B EN 12428

Safety features in acc. with EN 13241-1 are listed on page 45.

Please refer to the technical manual for further information.



ALR 40

A modern aluminium door underscores contemporary architecture

Prestigious door solution

With its extensive transparency, the ALR 40 door features a contemporary appearance. Extensive glazing down to the bottom section and a slim aluminium frame profile give this door its tasteful design.

Door design with many variants

To ensure a clear and modern door appearance, Hörmann divides each door leaf uniformly from top to bottom. The door width is decisive for the profile variant: Either with a 52-mm profile width for door widths up to 5500 mm or with a 91-mm profile for door widths from 5510 mm. Broader glazing is also available for the wide profiles. An optional wicket door with trip-free threshold is harmoniously integrated into the overall door.



26 mm

120 mm



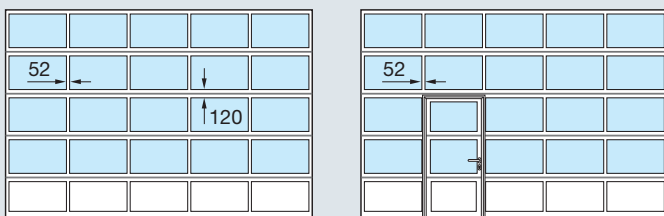
View of the door interior with black glazing beads



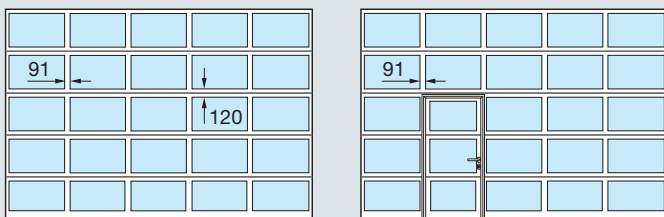
**Price advantage
with wide
window sections**

A top appearance with numerous door styles

Door models with narrow window N sections (examples)

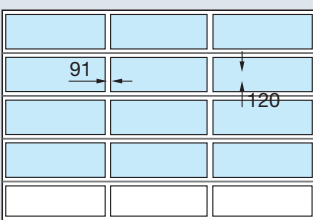


With 52-mm rail extrusion as standard for doors up to 5500 mm wide



With 91-mm rail extrusion as standard for doors from 5510 mm wide, doors up to 5500 mm also available with a 91-mm rail extrusion on request

Door models with wide window B sections (examples)



91-mm rail extrusion as standard, matching wicket doors available with the narrow window N sections and 91-mm rail extrusion.

Doors with wicket door and without trip-free threshold are available in widths up to 7000 mm.

Technical data

Size range

Width up to 8000 mm
Height up to 7000 mm

Resistance to wind load

Class 3



Water-tightness

Class 3 (70 Pa)



Air permeability

Class 2 (with wicket door category 1)



Sound insulation

R = 19 dB



Thermal insulation

For 25 m² door surface without wicket door U = 3.3 W/m²K
and optional triple glazing U = 3.0 W/m²K
For 25 m² door surface with wicket door U = 3.6 W/m²K
and optional triple glazing U = 3.3 W/m²K



1) EN 12424; 2) EN 12425; 3) EN 12426; 4) EN 717-1;
5) EN 13241, annex B EN 12428

Safety features in acc. with EN 13241-1 are listed on page 45.

Please refer to the technical manual for further information.

Individual arrangement of the glass and panel infills possible, or fully glazed for wide and narrow window sections.



ALR Vitraplan

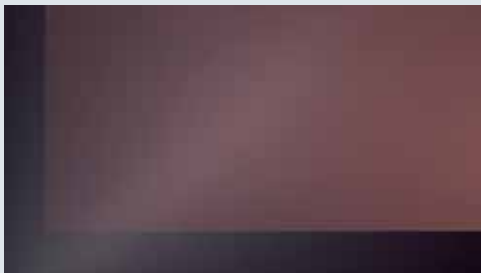
Exclusive aluminium door with flush-fitting glazing // NEW

For demanding building architecture

The ALR Vitraplan door is an exclusive version of the ALR 40 door with wide glazing areas. The door is especially elegant thanks to offset, flush-fitting glazing. The frame profile is concealed, so nothing detracts from the clear overall appearance. Continuous glazing adds an eye-catching element to modern industrial structures and prestigious private buildings. The interior corresponds to the profile appearance of the ALR 40 B door. Hörmann's proven finger trap protection for industrial sectional doors is also included in ALR Vitraplan doors.

Two colours to choose from

The ASL Vitraplan can be optimally integrated in the facade with glazings in brown and grey, as well as a dark frame profile colour that harmonises with the glass. This exclusive door fascinates with a mix of mirroring and transparency.



Offset glazing in brown

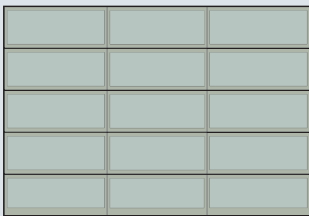


Offset glazing in grey



An eye-catcher for prestigious buildings and modern architecture

Door version



The glazing division is identical to that of the ALR 40 B door

Technical data

Size range

Width up to 8000 mm
Height up to 7000 mm

Resistance to wind load

Class 3



Water-tightness

Class 3 (70 Pa)



Air permeability

Class 2



Sound insulation

R = 19 dB



Thermal insulation

For 25 m² door surface U = 3.2 W/m²K
and optional triple glazing U = 3.1 W/m²K



1) EN 12424; 2) EN 12425; 3) EN 12426; 4) EN 717-1;
5) EN 13241, annex B EN 12428

Safety features in acc. with EN 13241-1 are listed on page 45.

Please refer to the technical manual for further information.



ALS 40

Aluminium “display window” door with real glass

Large areas of glazing invite you to take a closer look

Seeing from the outside what’s on offer on the inside, coupled with the attraction of a light and airy showroom. These are the benefits of the new Hörmann “display window” door with its slim-line aluminium profiles and the generously apportioned glazing. For example, for use in car showrooms, yacht and boatyards and at camper van and caravan dealers.

Equal-height infills in real safety glass

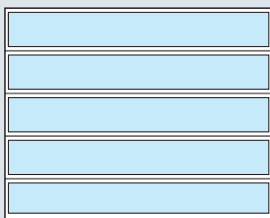
A good display window door should have the same effect as a showroom window. Hörmann achieves this impression by employing large areas of glazing with panes of exactly the same height. For this we use 6-mm laminated glass because a “showroom window” in an exposed location must be easy to clean and always look spick and span. On request, the door is available with double panes in 16-mm-thick “Sekurit” safety glass.



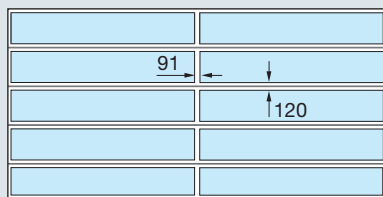


Put your products in the right spotlight

Door versions (examples)



Door version
up to 3330 mm wide



Door version
over 3330 mm wide with vertical rail (91 mm)

Technical data

Size range

Width up to 5500 mm
Height up to 4000 mm

Resistance to wind load

Class 3



Water-tightness

Class 3 (70 Pa)



Air permeability

Class 2



Sound insulation

R = 19 dB



Thermal insulation

For 25 m² door surface U = 6.2 W/m²K
and optional 16-mm double glazing U = 4.1 W/m²K



1) EN 12424; 2) EN 12425; 3) EN 12426; 4) EN 717-1;
5) EN 13241, annex B EN 12428

Safety features in acc. with EN 13241-1 are listed on page 45.

Please refer to the technical manual for further information.



TAR 40

Aluminium door with profiles with thermal breaks

Convincing arguments

This door has a multitude of advantages: high transparency, exceptional stability and good thermal insulation. The modern design of the TAR 40 door can be integrated seamlessly into contemporary facades.

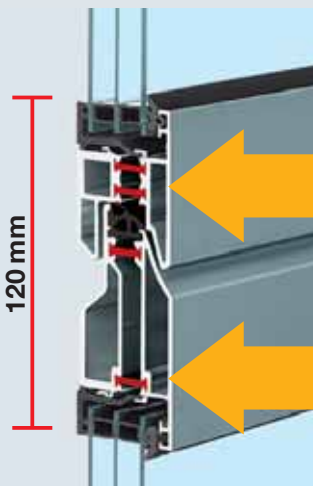
Stable thermal breaks in the profile

The exterior and interior shell of the profile are separated with glass-fibre reinforced polyamide spacers that have a non-positive connection.

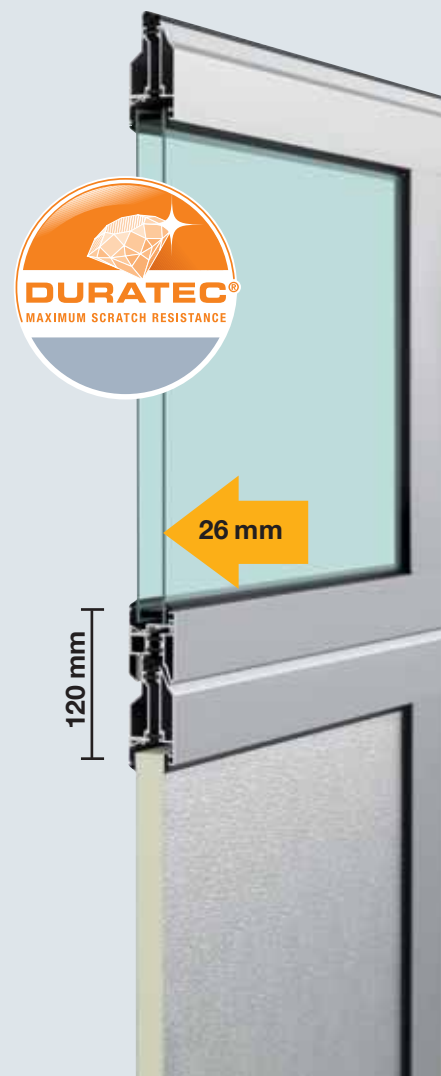
The best thermal insulation and comfort

The high thermal insulation value is achieved through a combination of several door features: aluminium tubular profiles with thermal breaks, and cold-repelling double glazing. The exterior and interior shell of the profile are separated with glass-fibre reinforced polyamide spacers that also have a non-positive connection. DURATEC double glazing is 26-mm thick as standard, resulting in a high thermal insulation value.

On request, the door is also available with DURATEC triple glazing for even better thermal insulation. As standard, the bottom section is infilled with 26-mm thick, 100% HCFC-free PU rigid foam. An optional wicket door with trip-free threshold provides a convenient passage for pedestrians without having to open the door all the way. This reduces heat losses and saves energy.



Thermal breaks in the frame profile via glass-fibre reinforced polyamide spacers (red) in conjunction with optional triple glazing.





3 added benefits
 Light, visual contact
 and thermal insulation

The clear choice for prestigious buildings

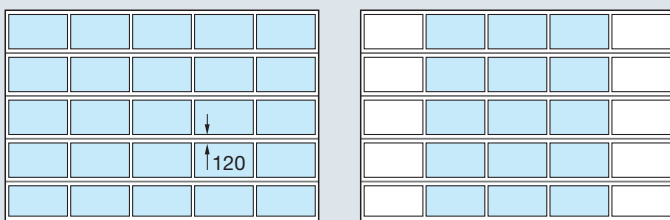
Door versions (examples)



With 52-mm rail extrusion as standard for doors up to 5500 mm wide



With 91-mm rail extrusion as standard for doors from 5510 mm wide, doors up to 5500 mm also available with a 91-mm rail extrusion on request



Fully glazed or with individual arrangement of glass and panel infills

Doors with wicket door and without trip-free threshold are available in widths up to 7000 mm.

Technical data

Size range

Width up to 7000 mm
 Height up to 7000 mm

Resistance to wind load

Class 3



Water-tightness

Class 3 (70 Pa)



Air permeability

Class 2 (with wicket door category 1)



Sound insulation

R = 19 dB



Thermal insulation

For 25 m² door surface without wicket door U = 2.7 W/m²K
 and optional triple glazing U = 2.4 W/m²K
 For 25 m² door surface with wicket door U = 3.0 W/m²K
 and optional triple glazing U = 2.7 W/m²K



¹⁾ EN 12424; ²⁾ EN 12425; ³⁾ EN 12426; ⁴⁾ EN 717-1;
⁵⁾ EN 13241, annex B EN 12428

Safety features in acc. with EN 13241-1 are listed on page 45.

Please refer to the technical manual for further information.



Sectional doors with wicket door and trip-free threshold



Wicket doors with trip-free threshold

To ensure that the main door does not always have to be opened to allow pedestrian traffic to pass through, wicket pass doors present a practical solution. The Hörmann wicket door with trip-free threshold prevents stumbling and makes it easier to drive over.

Power-operated doors feature a VL 2 leading photocell with two sensors which causes the door to reverse on encountering an obstruction well before contact is made. The wicket door contact ensures that the main door can only be opened when the wicket door is closed.

In certain circumstances Hörmann wicket doors with trip-free threshold up to a width of 5500 mm fulfil the requirements of an escape door.

To ensure design continuity for buildings with existing doors, we will continue to offer the wicket door with threshold.



We also recommend the wicket door with threshold if there is sloping ground in the door opening area.

Adjustable double seal on the stainless steel threshold for high thermal insulation

The double seal is located in the transition from the bottom edge of the door to the floor and the door leaf to the threshold. A separately adjustable bottom seal for both doors compensates for any slight unevenness in the floor. This reduces the thermal insulation value for sectional doors with wicket door by only approx. $0.2 \text{ W/m}^2\text{K}$, based on a door surface of 25 m^2 .





Wicket door with trip-free threshold with a 10-mm and 5-mm flat stainless-steel threshold rail in the middle and at the edges respectively. The threshold is approx. 13 mm flat for doors greater than 5510 mm width.



Matching side door

If sufficient space is available next to the door, the matching side door provides an economical and safe way of separating heavy employee and vehicle traffic. For your safety, side doors also serve as escape routes. They open inwards and outwards and can be right-hand or left-hand hinged. Also available with 3-point locking (latch, bolt, double locking hook and security rose escutcheon). Cannot be retrofitted.

Equipment of wicket doors and side doors

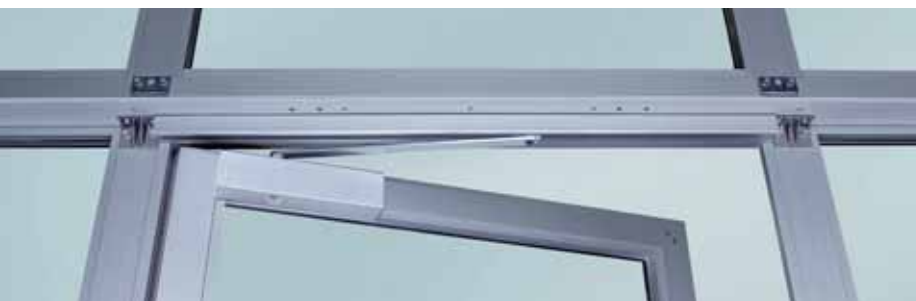
All door frames are made of aluminium extrusion profiles, anodised in accordance with DIN 17611 and stained in a natural finish (previously E6/EV1). As standard with all-round seals made of long-lasting, weather-resistant EPDM.

Fittings:

Mortice lock with profile cylinder, offset lever handle set, with black plastic oval rose escutcheons, on request with lever/knob handle sets. Also available in natural finish cast aluminium, polished stainless steel or brushed stainless steel.

Overhead door closer

As standard on wicket doors with slide rail, optional for side doors.



Wicket door as standard with slide rail door closer



Robust door catch
Prevents door-leaf drop and buckling.



Finger trap protection
On both the inside and outside of the wicket door frame as a standard feature.



Continuous strip
Built inconspicuously into the door frame to prevent trapping.



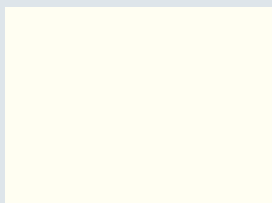
Coloured doors highlight corporate design

14 preferred colours!

No surcharge for double-skinned steel sections – take advantage of this discount!



Traffic white RAL 9016



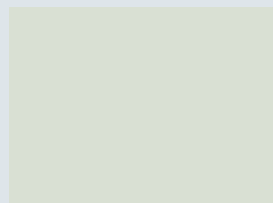
Pure white RAL 9010



Grey aluminium RAL 9007



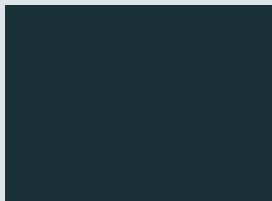
White aluminium RAL 9006



Grey white RAL 9002



Terra brown RAL 8028



Anthracite grey RAL 7016



Moss green RAL 6005



Leaf green RAL 6002



Gentian blue RAL 5010



Azure blue RAL 5009



Ultramarine blue RAL 5002



Flame red RAL 3000



Rape yellow RAL 1021

The colours shown are subject to the limitations of the printing process and cannot be regarded as binding. Contact your Hörmann specialist dealer for advice regarding coloured doors.



Colours are increasingly being used to fly the company flag. In this regard, coloured industrial doors are an ideal vehicle.



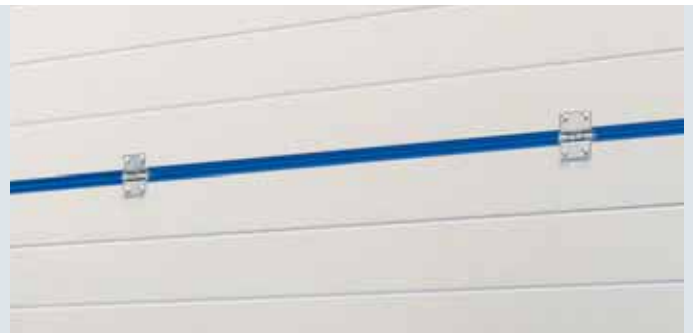
All industrial sectional doors from Hörmann are available in 14 preferred colours, as well as approximately 200 colours based on RAL and NCS*.

The wet coating on the interior and exterior sides and coil coating procedure for double-skinned, 42-mm sections in preferred colours ensure high-quality, long-lasting colour. This maintains the attractive appearance of your door.

Pearlescent, fluorescent and metallic colours are not available. Avoid dark colours if double-skinned steel doors and doors with thermal breaks are exposed to the sun. Section distortion can inhibit door function (bi-metal effect).

The galvanized subframe and fittings are not factory-coated. Anodised profiles for the wicket door and glazing beads can be optionally coated. The frames for section windows and compound windows are black as standard. Door leaf reinforcements and end caps are Grey white (similar to RAL 9002) as standard.

* With the exception of pearl-effect, fluorescent and metallic colours. Slight colour variations are permissible. All colours are based on RAL/NCS.



Doors with double-skinned steel sections in any of the 14 preferred colours are Grey white (similar to RAL 9002) on the inside).



For more light in the building



Maximum scratch resistance

With DURATEC synthetic glazing, Hörmann sectional doors retain their clear view permanently, even after multiple cleanings and heavy use.



Vision panel type A

Clear view:
635 × 245 mm

Glazing frames:
Black plastic frame or black diecast frame

Door section heights:
500 mm (DPU)
500, 625, 750 mm (SPU)

Vision panel type D

Clear view:
602 × 132 mm

Glazing frames:
Black plastic frame

Door section heights:
500, 625, 750 mm

Vision panel type E

Clear view:
725 × 370 mm

Glazing frames:
Black plastic frame

Door section heights:
625, 750 mm



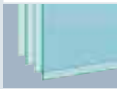
DURATEC synthetic double panes, clear
29-mm SPU diecast frame
33-mm SPU plastic frame
43-mm DPU diecast frame

SPU, DPU



DURATEC synthetic triple pane,
clear, 43-mm DPU diecast frame

DPU



DURATEC synthetic quadruple
pane, clear, 43-mm DPU diecast
frame

DPU



DURATEC polycarbonate
double pane, clear, impact-
resistant, break-in-resistant
29-mm SPU diecast frame
33-mm SPU plastic frame

SPU



Maximum scratch resistance

With DURATEC synthetic glazing, Hörmann sectional doors retain their clear view permanently, even after multiple cleanings and heavy use.



Aluminium glazing frame

Clear view:
Depending on version

Glazing frames:
Normal profile or profile with thermal breaks, anodised E6/C0 (previously E6/EV1)




























Rail extrusion:
52/91 mm
100 mm (DPU)

Aluminium glazing frame with slim profile

Clear view:
Depending on version

Glazing frames:
Normal profile, anodised E6/C0 (previously E6/EV1)

Rail extrusion:
65 mm

		DURATEC synthetic pane, clear, 3 mm	APU, ALR, SPU	
		DURATEC synthetic double panes, clear, 26 mm (45 mm with DPU)	APU, TAP, ALR, TAR, SPU, DPU	ASP, ASR
		DURATEC synthetic triple panes, clear, 26 mm (45 mm with DPU)	APU, TAP, ALR, TAR, SPU, DPU	ASP, ASR
		DURATEC synthetic quadruple panes, clear, 45 mm	DPU	
		DURATEC polycarbonate pane, clear, impact-resistant, break-in-resistant, 6 mm	APU, ALR, SPU	
		DURATEC polycarbonate double pane, clear, impact-resistant, break-in-resistant, 26 mm	APU, TAP, ALR, TAR, SPU	ASP, ASR
		Synthetic pane, crystal structure, 3 mm	APU, ALR, SPU	
		Synthetic double pane, crystal structure, with clear DURATEC inner pane, 26 mm	APU, TAP, ALR, TAR, SPU	ASP, ASR
		Single pane laminated safety glass, clear, 6 mm	APU, ALR, ALS, SPU	
		Double pane single-layer safety glass, clear, 16 mm	APU, ALR, ALS, SPU	
		Double-moulded pane (extremely sturdy panes), 16 mm	APU, TAP, ALR, TAR, SPU	
		Expanded mesh, galvanized steel, powder-coated, ventilation cross section: 58% of the infill surface	APU, ALR, SPU	
		Perforated steel sheet, smooth stainless steel, ventilation cross section: 40% of the infill surface	APU, ALR, SPU	
		Aluminium sheet infill, Stucco-textured, 1.5 mm	ALR	
		PU sandwich infill, aluminium sheet cladding, anodised on both sides, smooth, 26 mm	ALR, TAR	ASR
		PU sandwich infill, aluminium sheet cladding, Stucco-textured on both sides, 26 mm	ALR, TAR	ASR

Sound planning for old and new buildings

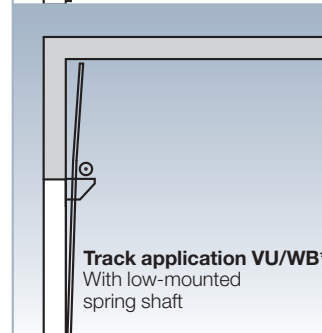
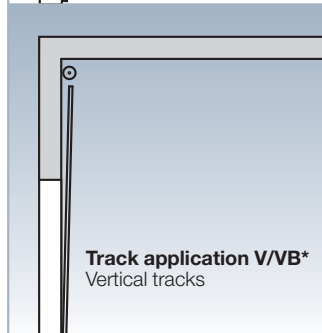
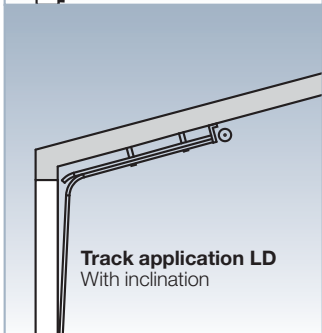
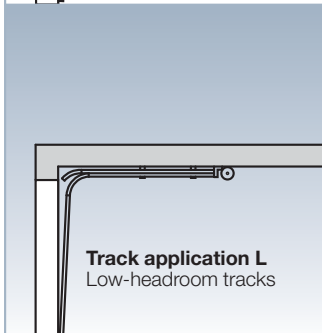
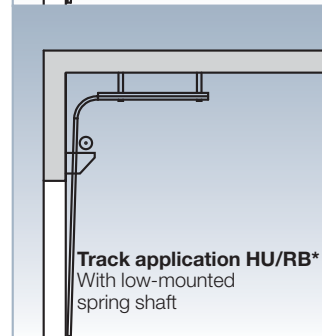
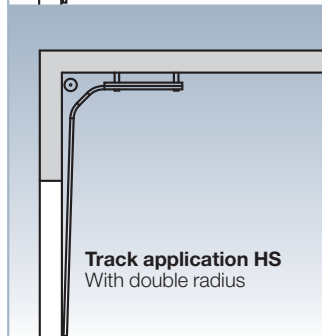
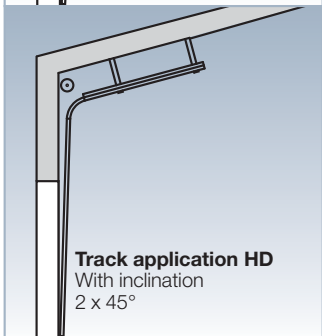
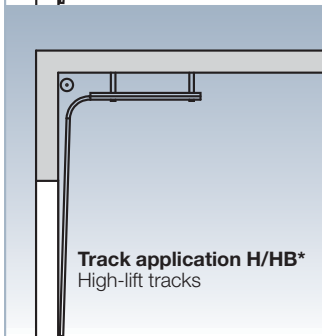
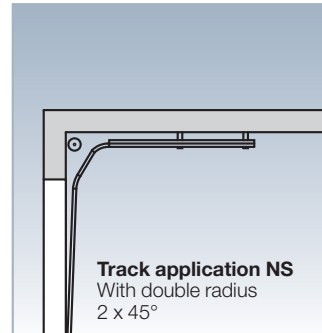
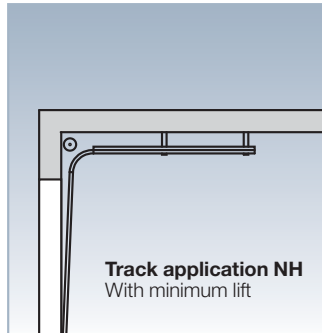
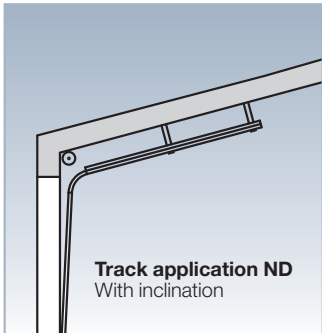
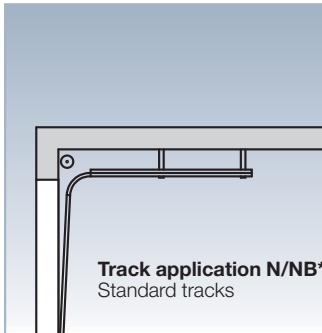
The door's guidance system should in no way impede the workflow within the building. That's why choosing the correct track application is important during the planning stage. With Hörmann, all the different track applications are available for all door types.

Please refer to the technical manual for all the possible track variants.



Hörmann sectional doors can be adapted to any building

Examples of possible track versions



*For door type DPU

Optimised roller guide

An optimum solution has been found for guiding the door. This allows the use of low-headroom tracks with an inclination of less than 10°.

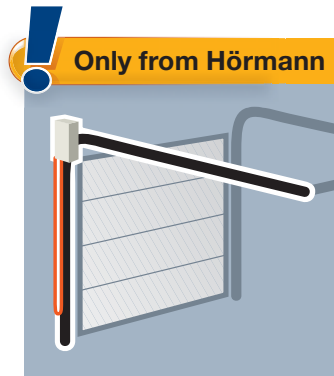
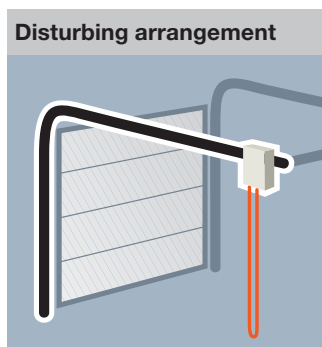


Low-headroom tracks

Operator and chain where they belong

All the control elements are on the front of the door. A disturbing chain no longer dangles down.

It pays to compare!



Minimum headroom

Manual operation	200 mm
Power-driven WA 400	200 mm
Power-driven ITO 400	260 mm

Minimum sideroom

Manual operation with cable	125 mm
Manual operation with chain hoist	165 mm
Power-driven WA 400	200 mm

In underground garages and collective garages, we recommend using a low-noise FU operator.





Sectional doors with operators – Safety as standard thanks to a break-in resistant door security kit

Tightly locked and protected against forced opening

All Hörmann power-driven industrial sectional doors up to 5-m high come with a break-in resistant door security kit as standard. This mechanical protection reliably prevents forced opening of the door, even in the case of a power failure.

Industrial sectional doors over 5-m high are break-in resistant due to their heavy weight.

In sectional doors with chain drive operators, self-locking gearboxes protect against forced opening.

Increased security for night doors

In power-driven doors, an additional mechanical shootbolt can be installed. Because it is equipped with an electrical interrupter contact, the operator cannot be started if the door is locked (see figure on page 43).



The locking hook of the door security kit automatically latches when the door is forced upwards.



Standard locking for manually-operated doors

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).



Floor locking

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



The door handle

Lock operation from outside

With the handle set, the door lock can be ergonomically operated from outside. From inside, the lock is operated via T-handle and locking pin. **The profile cylinder can also be integrated into central locking systems.**



Shootbolt



Rotary latch



Shootbolt



Rotary latch

Recessed handle set

Vertical door guidance, ideal for logistics applications, thanks to a flat design and flexible installation height (dock doors). You can operate two functions with the locking cylinder: **permanently unlocked door and automatic re-locking.**

All parts on the inside are protected by cladding.

The best proof of quality: Sophisticated technology down to the last detail

1. Quiet door travel

Hinged roller holders made of electrogalvanized 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. Electrogalvanized, 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 connections

Stable centre hinges made of electrogalvanized steel precisely connect the individual door sections. 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.**

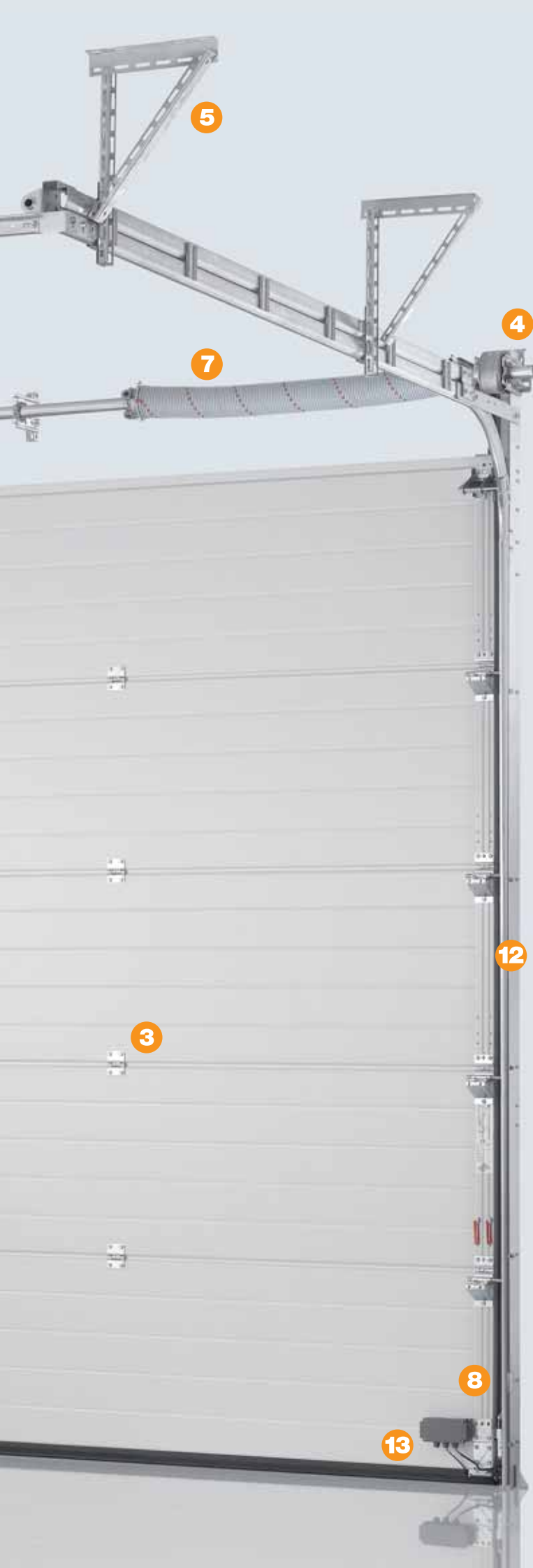
Flexible shaft coupling

Low variation in the axial alignment can be compensated for 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.





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

Safety features in accordance with European standard 13241-1

Tested and certified by Hörmann:

Anti-crash safeguard

6. Reliable door guidance

The rollers are precision-guided in the special **safety tracks** developed by Hörmann. That's why there is no risk of the door sections leaving the tracks, neither during the turning phase nor when parked under the ceiling.

7. Optimum counterbalance

The torsion spring assembly with grooved spring shaft ensures perfect counterbalancing of the doors, as well as smooth door action at every stage of opening and closing.

8. Catch safety device

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

9. Spring safety device

This device stops the torsion spring shaft in the event of spring failure and holds the door securely in position.

European patent

Trap protection

10. Finger trap protection

Thanks to the special shape of the door sections, trap zones are eliminated on both the inside and outside of the door.

11. Inner cable guide

The carrying cables are guided internally between the door sections and the frame. There are no protruding parts. This excludes the risk of injury. For doors with low-headroom tracks, the load carrier consists of a carrying chain/carrying cable.

12. Side trap guards

The side frames are completely closed, resulting in 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 (for further information, see page 51). Obstructions are detected before they come into contact with the door.



System solutions pay off: In operations and in safety



Options for operating manual doors

As standard with rope or pull rod.
On request: Pull rope with cable, link
steel chain or chain hoist, also with
chain tensioner.



Chain tensioner

Operator to flange

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. Standard fitting
position: horizontal, alternatively vertical



**Fully benefit from a perfect concept.
We offer a wide range of operators,
controls and impulse generators.**



Operator with chain box

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. Standard fitting position: vertical, alternatively horizontal.



Operator for central mounting

This version is mounted centrally on the spring shaft, as a result no additional sideroom is necessary. Note the required headroom! The WA 400 M includes a secured release as a standard feature and is suitable for virtually any track application.



Operator with boom guidance

In this version, the operator moves the door with a boom-guided belt/chain. This version is useful for areas with low headroom or if no sideroom is available near the guide rails.

With all 3-phase current operators:

- Exceptionally smooth running
- Long on-time
- Fast door travel
- Also available as an FU version

Shaft operator WA 400 to flange with emergency hand chain (can be operated from the floor)

Can be combined with controls A/B 440, A/B 445, A/B 460, B 460 FU



The strong operator for sectional doors

Shaft operator WA 400 M with chain box and emergency hand chain (can be operated from the floor)

Can be combined with controls A/B 440, A/B 445, A/B 460, B 460 FU

Standard fitting position: vertical



Shaft operator WA 400 M for central mounting with secured release

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

Ideal option when sideroom is lacking.





Only from Hörmann

As standard

- **IP 65 (hose-water protected)**
- **Door and operator from a single source**
Hörmann industrial sectional doors, operators and controls are a perfectly coordinated system from a single source. This saves you time and money!

• Solid metal gear

• Door security kit

All Hörmann power-driven industrial sectional doors up to 5 m height are equipped with a break-in-resistant door security kit as standard.

This mechanical protection reliably prevents the door from being forcefully pushed open, even in case of a power failure.



• Maintenance release

The operator must not be extensively dismantled from the door shaft for the statutory annual inspection work. This saves time and money. The maintenance release can be converted to a secured release at any time.



• Emergency hand chain

Through a combination of the standard emergency hand chain and the optional secured release, the door can be released or operated from the floor.



• Cable slack device

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



Alternative releases



Secured release

This allows you to conveniently release the operator from the floor (Hörmann patent). With an emergency hand chain as standard (except WA 400 M)



Secured release, exterior ASE

To unlatch the door from the outside (required for buildings without second entrance). Lockable diecast housing with profile half cylinder. Dimensions: 83 x 133 x 50 mm (W x H x D)

Alternative emergency operation



Maintenance release with emergency crank handle

The low-cost option, available in two versions. As a fixed crank handle or jointed emergency crank handle.

Retrofitting with an emergency hand chain possible.



Maintenance release with cover cap

The inexpensively priced alternative without emergency hand chain or emergency crank handle. After the operator has been disengaged, the door must be moved manually. That's why we only recommend its use up to a maximum door height of 3000 mm. **Retrofitting with an emergency hand chain possible.**

Push rod

For doors over 3000 mm high, and as an emergency opening device, especially for fire station doors. Fulfils the requirements in EN 14092.





The space-saving operator



Chain drive ITO 400 with boom guidance

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

- No sideroom required
- Emergency release via bowden cable on the slide carriage
- Emergency release from the outside possible
- IP 65 (hose-water protected)
- For normal tracks and low-headroom tracks
- Also available in a frequency converter version



Garage door operator SupraMatic H

- Suitable for parking spaces, max. 100 door cycles (open/close) per day
- Push and pull force 1000 N, peak force 1200 N, opening speed approx. 22 cm/s
- Quick release can be activated from inside
- Connecting lead with EEC plug, second suspension for boom FS 60 and FS 6
- Integrated garage illumination with factory-set 2-minute light
- Door security kit as a safety device (for extension units for warning light control, see page 58)
- May be extended with additional units
- Application range: Doors with spring safety device
Max. width: 5500 mm, max. height: 3000 mm
Max. section height: 562 mm
Track applications: N and L tracks
- Not suitable for doors with wicket door, doors with real glass or DPU doors.

Only from Hörmann

EUROPEAN PATENT

The non-contact, automatic safety cut-out protects people and property.



More safety and higher speed with the leading photocell



Leading photocell (European patent)

Increased safety on Hörmann industrial sectional doors thanks to the leading photocell VL 1, available as an optional extra. Contrary to the standard opto-electronic (OPTO) closing edge safety device, a sensor monitors the bottom edge of the door. As a result, obstructions and persons are quickly detected and the door starts to reverse before contact is made. Thanks to this technology, Hörmann sectional doors can be operated at higher speeds without the permissible closing forces being exceeded.

One (VL 1) or two (VL 2) sensors are situated in a leading swivel arm construction. DPU doors with impulse-controlled operators require a leading photocell VL2.

The leading photocell VL 2 monitors the bottom edge of the door with two sensors for doors with a wicket door and trip-free threshold. The anti-crash protection at the sides prevents the swivel arm from being damaged when the door is closed.

Uniform operating concept for all controls

Controls



Basic control
A/B 435 (400/230 V)

- Control and operator can be mounted separately
- Control and door leaf components in protection category IP 65 (hose-water protected)
A connection with CEE plug corresponds to protection category IP 44
- Adjustments are no longer made on the motor but conveniently on the control unit via an electronic door position sensor
- With closing edge safety device:
"Open/close door" with impulse
- Without closing edge safety device:
"Open door" with impulse,
"Close door" with press-and-hold operation
- Status and error display via LED



Press-and-hold control
A/B 440 (400/230 V)

- Control and operator can be mounted separately
- Control and door leaf components in protection category IP 65 (hose-water protected)
A connection with CEE plug corresponds to protection category IP 44
- 7-segment display, viewable from the outside
- Function lock via miniature lock (convertible to profile half-cylinder)
- Can be upgraded to impulse control A/B 445, A/B 460



Impulse control
A/B 445 (400/230 V)

- Control and operator can be mounted separately
- Control and door leaf components in protection category IP 65 (hose-water protected)
A connection with CEE plug corresponds to protection category IP 44
- Menu readout via an integral double 7-segment display on the outside, so there's no need to remove the housing cover
- Adjustments are no longer made on the motor but conveniently on the control unit via an electronic door position sensor
- Service menu with maintenance and operating hours counter, as well as fault analysis
- Collective malfunction signalling with on-site individual display (acoustic, visual, or e.g. via mobile phone)
- Function lock via miniature lock (convertible to profile half-cylinder)
- Can be upgraded to control A/B 460 so there is no need to replace the entire module



Comfort control
A/B 460 (400/230 V)

- Control and operator can be mounted separately
- Additional button on housing cover for 2nd opening height and integral connecting terminals for further command units
- Control and door leaf components in IP 65 protection category (hose-water protected)
A connection with CEE plug corresponds to protection category IP 44
- Menu readout via an integral double 7-segment display on the outside, so there's no need to remove the housing cover
- Adjustments are no longer made on the motor but conveniently on the control unit via an electronic door position sensor
- Service menu with maintenance, door cycle and operating hours counter, as well as fault analysis
- Collective malfunction signalling with on-site individual display (acoustic, visual, or e.g. via mobile phone)
- Function lock via miniature lock (convertible to profile half-cylinder)

Controls

Optional



**Frequency converter control
B 460 FU (230 V)**

- Control and operator can be mounted separately
- Additional button on housing cover for 2nd opening height and integral connecting terminals for further command units
- Control and door leaf components in IP 65 protection category (hose-water protected)
A connection with CEE plug corresponds to protection category IP 44
- Menu readout via an integral double 7-segment display on the outside, so there's no need to remove the housing cover
- Adjustments are no longer made on the motor but conveniently on the control unit via an electronic door position sensor
- Service menu with maintenance, door cycle and operating hours counter, as well as fault analysis
- Collective malfunction signalling with on-site individual display (acoustic, visual, or e.g. via mobile phone)
- Function lock via miniature lock (convertible to profile half-cylinder)
- Saves wear and tear on the door thanks to "soft" start and "soft" stop
- Adjustable high-speed opening and closing (depending on tracks)

Meets the requirements of fire service directive EN 14092



Main switch



Profile half-cylinder



Key switch post STI 1

For installing a maximum of 2 control units with additional housing.
Colour: White aluminium (similar to RAL 9006)
Dimensions:
200 x 60 mm,
height 1660 mm

Accessories

Radio control



Industrial hand transmitter HSI // NEW

This hand transmitter can control up to 1000 doors. It is equipped with a display and convenient quick selection buttons. Extra-large keys facilitate handling with work gloves. As a time-saving feature, the coding of one hand transmitter can be transferred via cable to other transmitters.



**4-button hand transmitter
HS 4**



**1-button hand transmitter
HS 1**



**4-button security hand transmitter
HSS 4**
Additional function:
Copy protection for hand transmitter coding.



Radio code switch FCT 10b
For up to 10 radio codes (868.3 MHz). The keypad illuminates when initially pressed.



**Radio finger-scan
FFL 12 // NEW**
For up to 10 radio codes (868.3 MHz). The keypad illuminates when initially pressed.

Receivers



**1-channel receiver
HEI 1**



**2-channel receiver
HEI 2**



**1-channel relay receiver
HER 1**



**2-channel relay receiver
HER 2**



**4-channel relay receiver
HER 4**

Code switches

Code switch CTR 1b, CTR 3b

The code switches CTR 1b and CTR 3b offer a high level of security against unauthorised opening. You simply enter your own personal code - a key is no longer needed. With the CTR 3b comfort version you can open a second door and also switch on the outside lights or operate a door in the chosen direction.



Dimensions:
80 x 110 x 17 mm (W x H x D)
Decoder housing:
140 x 130 x 50 mm (W x H x D)
Protection category:
Keypad: IP 65
Decoder housing: IP 54
Switching capacity: 2.5 A/30 DC
500 W/250 V AC

Finger-scan FL 12, FL 100

A fingerprint is enough to securely and conveniently open your sectional door. The finger-scan is available in two versions: FL 12 for 12 fingerprints and FL 100 for 100 fingerprints.



Dimensions:
80 x 110 x 39 mm (W x H x D)
Decoder housing:
70 x 275 x 50 mm (W x H x D)
Protection category:
Reader: IP 65
Decoder housing: IP 56
Switching capacity: 2.0 A/30 V DC

Transponder keypad

TTR 1, TTR 1000

The convenient solution when several persons require access to the building. You simply hold the transponder key with your personal security code approx. 2 cm in front of the reader. A non-contact system! A major benefit in the dark. 2 keys are included. Suitable for 100 transponder keys (TTR 100) or 1000 transponder keys (TTR 1000) at a maximum.



Dimensions:
80 x 110 x 17 mm (W x H x D)
Decoder housing:
140 x 130 x 50 mm (W x H x D)
Protection category:
Transponder pad: IP 65
Decoder housing: IP 54
Switching capacity: 2.5 A/30 DC
500 W/250 V AC

Accessories

Key switches, key switch posts



Key switch ESA 30 with 2 keys
Surface-mounted version
 Impulse or OPEN/CLOSE function selectable
 Dimensions:
 73 x 73 x 50 mm (W x H x D)
 Protection category: IP 54



Key switch ESU 30 with 2 keys
Recessed version
 Impulse or OPEN/CLOSE function selectable
 Dimensions of switch box:
 60 x 58 mm (d x D)
 Dimensions of faceplate:
 90 x 100 mm (W x H)
 Wall recess:
 65 x 60 mm (d x D)
 Protection category: IP 54



Key switch STAP with 2 keys
Surface-mounted version
 Impuls or OPEN/CLOSE function selectable
 Dimensions:
 80 x 110 x 68 mm (W x H x D)
 Protection category: IP 54



Key switch STUP with 2 keys
Recessed version
 Impuls or OPEN/CLOSE function selectable
 Dimensions of switch box:
 60 x 58 mm (d x D)
 Dimensions of faceplate:
 80 x 110 mm (W x H)
 Wall recess:
 65 x 65 mm (d x D)
 Protection category: IP 54

Key switch post STS 1

With adapter for fitting TTR 100/TTR 1000, FCT 10 b, CTR 1/CTR 3 or STUP.
 The command units must be ordered separately.
 Top and bottom end of post in Slate grey (similar to RAL 7015).
 The post is stove-enamelled in White aluminium (similar to RAL 9006).
 Dimensions:
 300 x 1250 mm (d x H)
 Protection category: IP 44



Version with fitted key switch STUP (accessory)

Photocells, switches



Photocell RL 50
 Reflection photocell with transmitter/receiver unit and reflector.
 The photocell is tested by the control unit prior to each closing cycle.
 Connected via system cable (length 2.0 m).
 Max. range: 6.0 m
 Dimensions:
 68 x 97 x 33 mm (W x H x D)
 Reflector:
 85 x 85 mm (W x H)
 Protection category: IP 65



One-way photocell EL 51
 Photocell with separate transmitter and receiver.
 The photocell is tested by the control unit prior to each closing cycle.
 Connected via system cable
 Max. range: 8.0 m
 Dimensions with fitting bracket:
 60 x 165 x 43 mm (W x H x D)
 Protection category: IP 65



Pull switch ZT 2 with cord
 Impulse generation to open or close the door.
 Dimensions:
 60 x 90 x 55 mm (W x H x D)
 Length of pull cord: 3.2 m
 Protection category: IP 65

Cantilever arm KA1 (not shown)

Extension 1680 x 3080 mm
 Can be used with ZT 1

Push buttons



Push button DT 02

Open or close via a command button, separate stop button.

Dimensions:

65 x 112 x 68 mm (W x H x D)

Protection category: IP 65

For controls:

A/B 435 (only with closing edge safety device), A/B 445, A/B 460 and B 460 FU



Push button DT 03

For separate control of both operational directions, with separate stop button.

Dimensions:

66 x 145 x 68 mm (W x H x D)

Protection category: IP 65

For controls:

A/B 435, A/B 440, A/B 445, A/B 460 and B 460 FU



Push button DT 04

For separate control of both operational directions, with separate stop button.

Full or partial door opening (via separate button).

Dimensions:

69 x 185 x 91 mm (W x H x D)

Protection category: IP 65

For controls:

A/B 460 and B 460 FU



Push button DTNA 30

For separate control of both operational directions. The stop button is a push-to-lock button which, once pressed, stays depressed in order to prevent unauthorised operation. Further operation is then only possible once the stop button has been unlocked

with a key. (2 keys included in the scope of delivery)

Dimensions:

66 x 145 x 85 mm (W x H x D)

Protection category: IP 65

For controls:

A/B 435, A/B 440, A/B 445, A/B 460 and B 460 FU



Push button DTP 02

Open or close via a command button, separate stop button and operation control light for control voltage. Lockable with profile half-cylinder, available as an accessory.

Dimensions:

86 x 260 x 85 mm (W x H x D)

Protection category: IP 44

For controls:

A/B 435 (only with closing edge safety device), A/B 445, A/B 460 and B 460 FU



Push button DTP 03

For separate control of both operational directions. Separate stop button and operation control light for control voltage.

Lockable with profile half-cylinder, available as an accessory.

Dimensions:

68 x 290 x 74 mm (W x H x D)

Protection category: IP 44

For controls:

A/B 435, A/B 440, A/B 445, A/B 460 and B 460 FU



Emergency-OFF button DTN 10

To quickly immobilise the door. Push-to-lock button (mushroom button), surface-mounted.

Dimensions:

93 x 93 x 95 mm (W x H x D)

Protection category: IP 65

For controls:

A/B 435, A/B 440, A/B 445, A/B 460 and B 460 FU



Emergency-OFF button DTNG 10

To quickly immobilise the door. Oversize push-to-lock mushroom button, surface-mounted.

Dimensions:

93 x 93 x 95 mm (W x H x D)

Protection category: IP 65

For controls:

A/B 440, A/B 445, A/B 460, B 460 FU

The lockable function serves to isolate the control voltage and immobilises the command units. Profile half-cylinders are not included in the scope of delivery for the push buttons.

Accessories

Activating kits for warning lights

Activating kits for warning lights in a separate additional housing or for fitting in an existing housing, incl. 2 yellow warning lights

Extension unit for controls A/B 445, A/B 460, B 460 FU. The activating kit for warning lights serves as a visual indicator while the door is moving. (Shown with optional weekly timer)

Applications:

- Approach warning (for A/B 445, A/B 460, B 460 FU)
 - Automatic timed closing (for A/B 460, B 460 FU)
- After the set hold-open phase has elapsed (0-480 s), the warning lights flash during the set warning phase (0-70 s).

Dimensions of lights: 180 x 250 x 290 mm (W x H x D)

Dimensions of additional housing:

202 x 164 x 130 mm (W x H x D)

Contact load: 250 V AC: 2.5 A/ 500 W

Protection category: IP 65

Light material: High-grade, powder-coated aluminium housing



Warning lights with bright, long-lasting LEDs.



Traffic control in a separate additional housing or for fitting in an existing housing, incl. 2 red/green warning lights

Extension unit for controls A/B 460, B 460 FU.

The activating kit for warning lights serves as a visual indicator for regulating the entrance and exit (optional weekly timer).

Duration of green phase: Adjustable from 0-480 s

Duration of clearance phase: Adjustable from 0-70 s

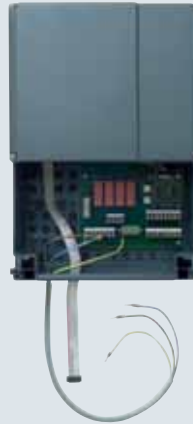
Dimensions of lights: 180 x 410 x 290 mm (W x H x D)

Dimensions of additional housing: 202 x 164 x 130 mm (W x H x D)

Contact load: 250 V AC: 2.5 A/500 W

Protection category: IP 65

Light material: High-grade, powder-coated aluminium housing



Activating kits for warning lights SupraMatic H

Extension unit for warning lights ES 1

In separate housing, two relays to control warning lights, option relay (momentary impulse) for illumination control, impulse input, hold-open phase can be shortened, emergency-OFF button can be connected, SupraMatic H keypad can be switched off, automatic timed closing can be switched off (e.g. ZSU 2), incl. 2 yellow warning lights.



Warning lights with bright, long-lasting LEDs.



Extension unit for warning lights ES 2

Technically identical to ES 1, in addition, SupraMatic H programming is possible via the extension unit.

A closing edge safety device and a safety or through-traffic photocell can also be connected. Connection of a closing edge safety device possible.

Hold-open phase adjustable from 5-480 seconds, warning phase from 1-170 seconds, incl. 2 yellow warning lights.



Extension unit for traffic control EF 1

Technically identical to ES 2, in addition, impulse command entrance and exit, entrance function has priority, limit switch reporting via an integrated relay, incl. 2 traffic lights (red/green).



Optional extras/special controls



Travel limit circuit board in a separate additional housing or for fitting in an existing housing

Extension module for controls A/B 435 and A/B 440
Dimensions of additional housing: 202 x 164 x 130 mm (W x H x D)
Protection category: IP 65
A print can be optionally mounted in the control unit.



Multi-function circuit board in a separate additional housing or for fitting in an existing housing

Limit switch reporting, momentary impulse, collective malfunction signalling
Extension module for controls A/B 445, A/B 460 B 460 FU
Dimensions of additional housing: 202 x 164 x 130 mm (W x H x D)
Protection category: IP 65
A print can be optionally mounted in the control unit.



Digital weekly timer in a separate additional housing

The timer can switch command units on and off via a volt-free contact.
Extension module for controls A/B 460, B 460 FU
Switching capacity: 230 V AC: 2.5 A/500 W
Can be switched over to summer/winter time
Manual switching: automated operation, switching preselection for time for ON/OFF
Dimensions of additional housing: 202 x 164 x 130 mm (W x H x D)
Protection category: IP 65



Summer/winter connection unit in an additional housing

Function for full opening of door and individually programmable intermediate travel limit.
Extension module for controls A/B 460, B 460 FU
Dimensions of additional housing: 202 x 164 x 130 mm (W x H x D)
Protection category: IP 65



Radar movement detector RBM 2

For "OPEN door" impulse with directional recognition
Max. fitting height: 6 m
Dimensions: 155 x 132 x 58 mm (W x H x D)
Contact load: 24 AC/DC, 1 A with resistivity
Protection category: IP 65



Induction loop DI 1 in a separate additional housing

Suitable for one induction loop. The detector has a normally open contact and a change-over contact.

Induction loop DI 2 (not shown) in a separate additional housing

Suitable for two separate induction loops. The detector has two volt-free normally open contacts. Can be set for impulse or permanent contact.

Directional recognition possible.
Dimensions of additional housing: 202 x 164 x 130 mm (W x H x D)
Switching capacity:
DI1: low voltage 2 A, 125 V A/60 W
DI2: 250 V AC, 4 A, 1000 VA, (resistivity AC)
Delivery: without loop cable



Loop cable for induction loop

50 m roll
Cable designation: SIAF
Cross-section: 1.5 mm²
Colour: brown



Optional remote control for radar movement detector.

Customer-specific special controls are available on request.

Overview of door types

Technical data

Design and quality features

● = Standard, ○ = on request

Higher categories and better thermal insulation values or acoustic values on request!

		SPU	DPU
Resistance to wind load EN 12424	Class	3	3
Water-tightness EN 12425	Door without wicket door	3 (70 Pa)	3 (70 Pa)
Air permeability EN 12426	Door without wicket door	2	3
	Door with wicket door	1	–
Sound insulation EN 717-1	R = . . . dB	22	22
Thermal insulation acc. to EN 13241, annex B EN 12428	Door approx. 25 qm, fitted with wicket door ³⁾	1.2	–
	Door approx. 25 qm, fitted without wicket door ³⁾	1.0	0,7
	Single door section (U = W/m ² K)	0.5	0.3
Design	Self-supporting	●	●
	Depth, mm	42	80
Door sizes	Width (LZ) max. mm	8000	6000 (10000) ²⁾
	Height (RM) max. mm ¹⁾	7000	5000 (8000) ²⁾
Space requirements	See technical manual		
Material, door leaf	Steel, double-skinned, 42 mm	●	–
	Steel, double-skinned, 80 mm	–	●
	Aluminium (standard profile)	–	–
	Aluminium (thermal profile)	–	–
Surface, door leaf	Galvanized steel, coated in RAL 9002	●	●
	Galvanized steel, coated in RAL 9006	○	○
	Galvanized steel, coated in RAL to choose	○	○
	Anodised aluminium E6/C0 (previously E6/EV1)	○	–
	Aluminium coated in RAL to choose	○	–
Wicket door	With trip-free threshold	○	–
Side door	Matching in the door	○	–
Glazings	Section window type A	○	○
	Section window type D	○	–
	Section window type E	○	–
	Aluminium glazing frame	○	○
Seals	4 – sided all-round	●	●
	Intermediate seal between the individual door sections	●	●
Locking systems	Internal latching	●	●
	External/internal latching	○	○
Door security kit	For doors up to 5 m high with shaft operator	●	–
Safety equipment	Finger trap protection	●	–
	Side trap guards	●	●
	Spring safety device for manual operation	●	●
	Safety catch for doors with shaft operator	●	●
Fixing options	Concrete	●	●
	Steel	●	●
	Brickwork	●	●
	Others on request		

¹⁾ Door height above 7000 mm on request (not for door type ALS 40)

²⁾ Doors with direct drive operators

³⁾ Information in brackets: U values with optional triple glazing (26 mm)

	ASP	APU	TAP	ASR	ALR	ALR Vitraplan	ALS	TAR
	3	3	3	3	3	3	3	3
	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)	3 (70 Pa)
	2	2	2	2	2	2	2	2
	-	1	1	-	1	-	-	1
	19	19	19	19	19	19	19	19
	-	3.2 (3.0)	2.7 (2.5)	-	3.6 (3.3)	-	-	3.0 (2.7)
	3.0 (2.6)	3.0 (2.8)	2.5 (2.3)	3.2 (2.8)	3.3 (3.0)	3.2 (3.1)	6.2	2.7 (2.4)
	-	-	-	-	-	-	-	-
	●	●	●	●	●	●	●	●
	42/48.5	42	42	48.5	42	42	42	42
	5000	8000	7000	5000	8000	8000	5500	7000
	7000	7000	7000	7000	7000	7000	4000	7000
	●	●	●	-	-	-	-	-
	-	-	-	-	-	-	-	-
	●	●	-	●	●	●	●	-
	-	-	●	-	-	-	-	●
	○	○	○	-	-	-	-	-
	●	●	●	-	-	-	-	-
	○	○	○	-	-	-	-	-
	●	●	●	●	●	●	●	●
	○	○	○	○	○	○	○	○
	-	○	○	-	○	-	-	○
	○	○	○	○	○	-	-	○
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	○	○	○	○	○	-	-	○
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●



1 Sectional doors



2 Rolling shutters and rolling grilles



3 Folding doors in steel and aluminium



4 High-speed doors



5 Loading technology

All from one source: For your facility construction.

1 Sectional doors

These room-saving door-systems can be adapted to various track applications for each industrial facility. This gives you planning safety when constructing a new building or renovating. Hörmann offers you tailored solutions for every application: for instance fully-glazed ALS sectional doors for a clear view of interiors or thermally-insulated, double-skinned 80-mm thick DPU doors that guarantee stable temperatures.

2 Rolling shutters and rolling grilles

Thanks to a simple design and reduced components, rolling shutters are extremely economical and robust. Hörmann supplies rolling shutters in widths and heights of up to 11.75 m and 9 m respectively, or special doors which are even higher. Numerous window and colour designs give you room for variety when designing your facility.

3 Folding doors in steel and aluminium

Hörmann folding doors in steel and aluminium are recommended for buildings with low traffic and little headroom where no roof load is permitted. Fewer wearing parts make folding doors easy to repair and service.

4 High-speed doors

Hörmann high-speed doors are used both indoors and outdoors to optimise traffic flow, improve room climate and save on energy.

The Hörmann range comprises transparent doors with a flexible curtain that open vertically and horizontally. They can also be combined with sectional doors and rolling shutters. The benefit to you: SoftEdge technology with a built-in anti-crash system makes high-speed doors extremely safe and economical.

5 Loading technology

Hörmann delivers complete loading systems for all your logistics needs. The benefit to you: sure planning, reliable construction management and high functionality thanks to perfectly co-ordinated components is guaranteed, irrespective of whether you need individual dock levellers or loading houses. All of these can be retrofitted to existing buildings as a complete unit with a dock leveller and dock seal.

6 Fire sliding doors

Hörmann delivers single and double-leaf sliding door solutions for all facilities depending on the fire-protection level required, as well as with a wicket door and smoke-tight function.

7 Multi-function doors and construction project internal doors

Hörmann multi-function doors and construction project internal doors are suitable for indoor and outdoor use. Our single and double-leaf doors can be used anywhere where heavy-duty door sets are required. With numerous additional functions, such as fire and smoke protection, acoustic insulation or burglar protections Hörmann offers you solutions that cover almost every industrial application.

8 Fire and smoke-tight tubular frame parts

Hörmann can supply you with doors and fixed glazing made of steel and aluminium for discerning areas such as administration departments in industrial buildings. The 100% matching system appearance guarantees the same look irrespective of the fire protection category.

9 Visibility windows

Hörmann visibility glazing is used as windows or room-high elements to provide more light and better visibility. Individual solutions can also be implemented with rail partitions, recesses and chamfers.

10 Service

Only intact, professionally maintained systems ensure smooth production processes and safe routes. The statutory inspections and necessary repairs are professionally carried out and documented with an inspection and maintenance contract. This saves costs and ensures reliability.

Garage doors for use in collective garages (not shown) are also offered by Hörmann.



6 Fire sliding doors



7 Multi-function doors and construction project internal doors



8 Fire and smoke-tight tubular frame parts

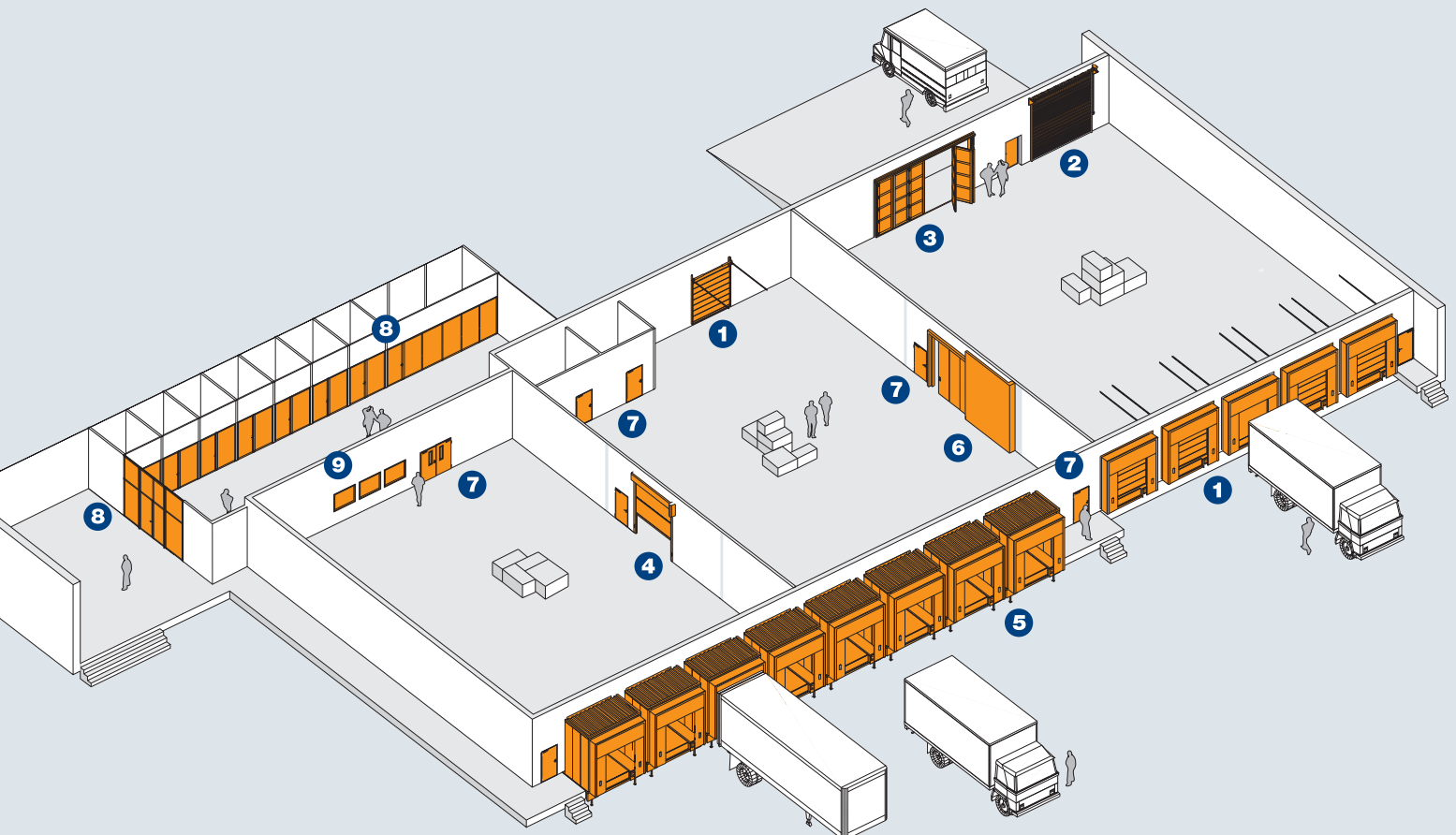


9 Visibility windows



10 Service

As a construction element specialist, Hörmann gives you the power to plan perfectly whatever your needs. Carefully matched, construction project solutions offer you the very best in perfectly designed products for every area.



Hörmann: Quality without Compromise



Hörmann KG Amshausen



Hörmann KG Antriebstechnik



Hörmann KG Brandis



Hörmann KG Brockhagen



Hörmann KG Dissen



Hörmann KG Eckelhausen



Hörmann KG Freisen



Hörmann KG Ichtershhausen



Hörmann KG Werne



Hörmann Genk NV, Belgien



Hörmann Beijing, China



Hörmann LLC, Montgomery IL, USA

Hörmann is the only manufacturer worldwide that offers you a complete range of all major building products from one source.

We manufacture in highly-specialised factories using the latest production technologies.

The close-meshed network of sales and service companies throughout Europe, and activities in the USA and China, make Hörmann your strong partner for first-category building products, offering "Quality without Compromise".

GARAGE DOORS

OPERATORS

INDUSTRIAL DOORS

LOADING EQUIPMENT

HINGED DOORS

DOOR FRAMES