



Stainless Steel Doors, Hinged Doors and Frames

The stainless steel product range for high demands







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Brand Quality for Top Safety and Reliability



Hörmann products in the DLV headquarters in Hamburg



In-house product development

Growing and constantly changing functional and safety requirements necessitate continuous new construction / equipment developments and improvements, especially when it comes to moveable construction components such as doors. In this area, our qualified development teams prove their great specialised expertise time and again.



Highly sophisticated production methods

We at Hörmann rely on the latest production technology at our specialised factories. Computer-controlled operations ensure dimensionally accurate elements with perfectly fitted fittings and functional parts.



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

Highly-specialised factories develop and manufacture construction components that feature top 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.



Fire testing at own fire test chamber

Our new and further developments are constantly tested for the required fire resistance and smoke-tightness through in-house fire tests at our fire testing centre. The knowledge gained from these tests ensures high fire protection for buildings. They also allow us to optimally prepare our innovations for the official inspections by the accredited testing centres for official approvals.



Expert building support

Experienced specialists of our customer-oriented sales organisation support you from the planning stage, through technical clarification up to the final building inspection.

Expert fitting is guaranteed by experienced Hörmann fitters and the specialised trained staff of Hörmann's partners.

Stainless Steel Doors, Hinged Doors and Frames

Wide product range for high requirements





Stainless steel doors

You will always find the right solution with Hörmann, even for fitting situations that require both the use of stainless steel and compliance with regulations for fire and smoke protection. All door components (door leaf, fittings, etc.) are made of 100 % stainless steel for use in hygiene areas. Our high-quality, flush-closing doors not only fulfil fire protection requirements up to T90, but also fit in seamlessly with modern architectural concepts thanks to a flush appearance.



Stainless steel visibility windows and frames

Stainless steel is often specified for a specific appearance or special fitting situations in hotels, restaurants, hospitals, or public social areas. Hörmann offers its complete range of steel frames and visibility windows in the stainless steel version. This makes it possible for you to include special stainless steel features, such as double rebate frames for increased acoustic insulation, frames with chamfered rebate for more space in the opening or fire-resistant glazing up to F90.



Stainless steel sliding doors

Large hall passages and transitions in food production, cold store warehouses, dairies and breweries also must comply with fire and smoke protection regulations. Depending on the fire protection requirements, Hörmann provides reliable stainless steel sliding door solutions in single and double-leaf versions and telescopic version that comply with operation and risk requirements. All of this guarantees safe escape and rescue routes.



Stainless steel high-speed doors

Strict hygienic requirements must be fulfilled to ensure a smooth transport of goods for the food industry. The Hörmann V 2515 FOOD L high-speed door was specifically developed for this application. The operator, guide rails, control and shaft are protected by a stable stainless steel construction. This means that the door continues to function perfectly, even with regular and intensive cleaning.

Stainless Steel

Function and aesthetics in the application



Long-lasting and resistant

Stainless steel is the right material wherever high demands are placed on the surface and construction. In addition to its high resistance to working stresses, it also features resistance to acid and alkaline. In addition, stainless steel reacts neutrally to many aggressive substances such as chlorine, paint, alcohol and salt. This is why stainless steel is particularly suitable for use in the pharmaceutical and chemical industries as well as in swimming pools or bathrooms.



Hygienic and temperature-resistant

Stainless steel also meets special hygienic requirements. It reacts neutrally when it comes into contact with food and is resistant to frequent, intensive cleaning. These properties make the material indispensable in areas that demand cleanliness and hygiene. In addition, stainless steel is extremely temperature-resistant and ideally suited for use in the food and beverage industry, e.g. in restaurants and commercial kitchens – all areas in which high hygiene requirements must be met.



High-quality and modern

Furthermore, stainless steel is the first choice when it comes to high architectural standards. Its gleaming surface and high-quality material composite ensure a long-lasting, aesthetically pleasing design. Beautiful matching hinges, lever handle sets and fittings underscore the exclusive design. Further appealing design possibilities are available with a variety of surface finish options.



Image: Saizburg AG



Stainless Steel Versions



Notes on stainless steel surfaces

Stainless steel

Stainless steel is characterised by a percentage of chrome that is greater than 10.5 %. This high percentage of chrome creates a protective, dense passive layer of chromium oxide on the surface of the material. Additional alloy components such as nickel, molybdenum, manganese and niobium further improve corrosion resistance.

V2 A, material number 1.4301

1.4301 is a relatively soft, nickelous, non-ferromagnetic austenitic steel. This material is not resistant to chloric media (e.g. chloric atmospheres in indoor pools).

V4 A, material number 1.4571

V4 A should be used around chloric media. In contrast to V2 A 1.4301, it has a greater resistance to chlorides thanks to its 2 % of molybdenum. It is used, for example, in all areas with a chloric atmosphere such as indoor pools.



Polished finish, K240

This surface is ground first and then brushed to refine and finish it.

Products

Stainless steel doors
Stainless steel visibility windows
Stainless steel frames



Circular finish

This surface is characterised by radial lines.

Products

Stainless steel doors
Stainless steel sliding doors



Striped finish

Fine vertical lines result in a harmonious surface look.

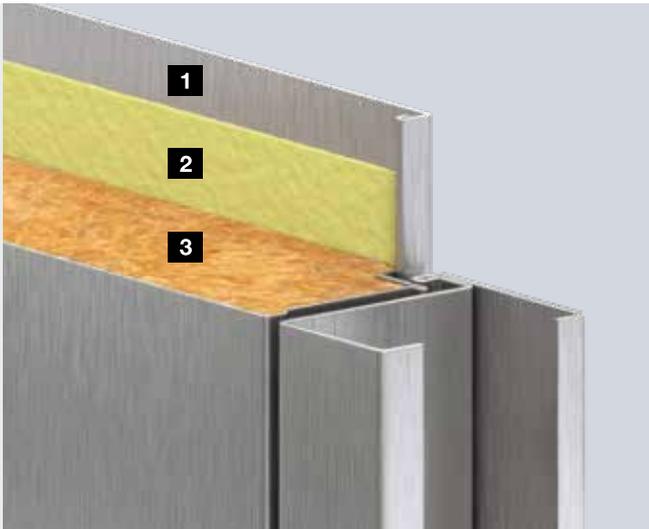
Products

Stainless steel doors
Stainless steel sliding doors
Stainless steel high-speed doors

Stainless Steel Doors

Corrosion-resistant door constructions for challenging applications





High-quality composite construction

Fully bonded door leaf

The individual layers of the stainless steel door construction are fully bonded and flush. This significantly increases leaf rigidity and the door closes with a rich sound.

Door structure

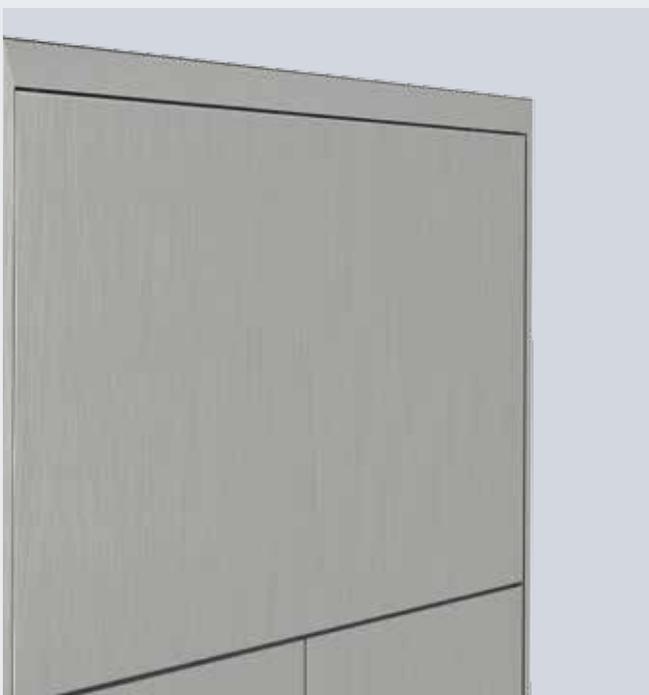
- 1** Stainless steel sheet
- 2** Full bonding
- 3** Fire protection insert



Elegant flush-closing version

Flush version STS

The high-quality flush-closing version STS is particularly suitable for modern architecture. It can be combined with all frame variants. The 62 mm block frame results in a particularly harmonious, flush-fitting look on both the inside and outside. For doors with break-in-resistant equipment (RC 2 / WK 2, RC 3 / WK 3), we recommend the thick rebate version STU.



High-quality overall look

Flush-fitting door leaf transition

The flush-fitting door leaves on double-leaf doors provide a non-disturbing meeting style for a high-quality overall look.

Flush-fitting transition to the top panel

The fixed top panels also integrate themselves harmoniously into the door's look.

Integrated fittings

Optional concealed hinges and integrated overhead door closer support the clear aesthetics of the door construction.

Stainless Steel Doors

High quality for all requirements

1 Version



STS: Flush

STU: Thick rebate

2 Stainless steel surfaces

Door leaves and frames are delivered in stainless steel V2 A 1.4301 with a K240 grain size. Alternatively, the V2 A surfaces are available with a circular or striped finish, as well as in V4 A 1.4571.

3 Glazings

The Hörmann stainless steel doors can be optionally equipped with different glazing variants. The surface-mounted standard glazing frame in V2 A or V4 A features invisible fittings on the hinge side. Optionally, you can also choose the flush-fitting glazing profiles in V2 A for high-quality architectural demands.

4 Lock

Hörmann stainless steel doors are equipped as standard with a mortise lock and stainless steel lock cover with a lever/knob prepared for a profile cylinder in accordance with DIN 18250. Break-in-resistant doors RC 3 / WK 3 contain a multiple locking system. For double-leaf doors, the fixed leaf is secured with a latch in rebate or a rebate locking bolt at the top and bottom depending on the function.

5 Lever handle set

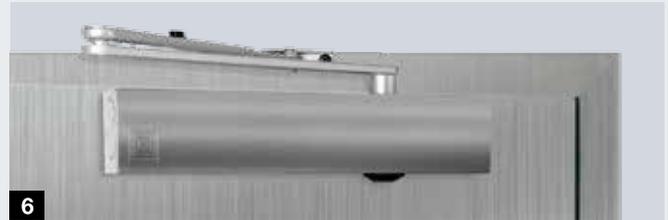
Hörmann stainless steel doors are equipped as standard with an FS round lever handle set according to DIN 18273 in stainless steel V2 A with a round escutcheon and securely fitted knob. Break-in-resistant doors are supplied with an FS security lever/knob handle set according to DIN 18257, class ES 1 (with short escutcheon) or ES 2 (with long escutcheon). Optionally, you can also choose an object lever handle set.



The door shown contains special equipment.

6 Closing devices

Fire-rated and smoke-tight doors close automatically as standard. The exclusive slide rail door closer HDC 35 comes as standard for single and double-leaf doors. Depending on the size, equipment, use or fitting style, you can also order doors with linkage door closer, slide rail door closer with door leaf selector or concealed, integrated door closer for a high-quality look.



Linkage door closer for single-leaf and double-leaf doors



Exclusive slide rail door closer HDC 35 for single-leaf and double-leaf doors



Integrated door closer for single-leaf and double-leaf doors

7 3-way adjustable hinges

Stainless steel doors are equipped as standard with stainless steel 3-way adjustable hinges in V2 A. Concealed hinges are ideal for high design demands.

Optimally adjustable

All hinge systems are three-way adjustable and are particularly effective at fine door adjustments, even after the fact. You can use them to easily compensate minor fitting inaccuracies.



Optional concealed stainless steel 3-way adjustable hinge



Standard 3-way stainless steel guide roller

8 Security bolts

In fire-rated and smoke-tight doors, stainless steel security bolts on the hinge side provide additional stability in the event of a fire. Break-in-resistant doors according to DIN EN 1627 are secured on the hinge side against forced opening with up to 7 solid stainless steel security bolts per door leaf, depending on the resistance class.



Stainless steel security bolts

Stainless Steel Doors

Frame types

Flexible, versatile and quickly fitted with mortar-free assembly

The Hörmann frame system guarantees a stable wall connection for optimal and long-lasting door functionality.

Advantages at a glance:

- Sheet thickness 1.5 mm or 2.0 mm for block frames (62 / 55 mm and 62 / 75 mm)
- Optionally with floor recess of 30 mm
- Hörmann lining groove (except for block frames 62 / 55 mm and 62 / 75 mm)
- Delivered as standard in stainless steel V2 A, 1.4301, K240 ground
- Optionally in stainless steel V4 A 1.4571
- Fast and simple fitting with fixing brackets including stainless steel spacers
- Mortar-free fitting to brickwork and concrete for T30 / EI₂30 and T90 / EI₂90

Stainless steel frame types

- Corner frame 40.95 mm
- Corner frame 20.95 mm (optional)
- Block frame 62 / 55 mm (for flush fitting on both sides of STS doors), only version V2 A
- Block frame 62 / 75 mm (for flush fitting on one side of STS doors), only version V2 A
- Block frame 95 / 55 mm
- Block frame 95 / 75 mm
- Block frame 105 / 100 mm
- Profile frame with up to 375 mm wall width
- Special frames with edge recess for an individual look or with double rebate for higher acoustic insulation (up to 42 dB)



1-part frames

Welded in the mitred area and polished for solid walls, dry construction walls and fitting in partition walls for single and double-leaf doors of 2400 mm width



Double-shell frames (optional)

Welded in the mitred area and polished and separated in the lining groove for refurbishing and retrofitting for single and double-leaf doors



Lining groove

Hörmann stainless steel doors are equipped with lining grooves in the frame as standard. The special lining groove means that bonding the seals is not necessary.

Flush-fitting stainless steel lock plate with edge protector

Stainless steel doors are optionally equipped with a flush-fitting stainless steel lock plate incl. edge protector. This provides effective protection for the frame. Doors prepared for an electric strike come with a lock plate incl. a sample electric strike, which can later be exchanged for an original electric strike.



Flush cover caps

For all frames, flush cover caps provide an attractive appearance. They are supplied in a stainless steel colour similar to RAL 9006.



DryTec Frame System, Fitting without Mortar

For T30 / EI230 and T90 / EI290



The high-quality frames for fire-rated doors STS / STU are backfilled with mineral wool at the factory and can therefore be fitted quickly and neatly without mortar. This guarantees clean surfaces without any contamination or damage. This is particularly advantageous for stainless steel frames. The gap between the brickwork and the frame can be sealed with acrylic. Gaps larger than 5 mm must additionally be filled with commercially available, fire-proof mineral wool.



Standard corner frame 40

- No mortice work required for the fitting elements of the frame
- Faster, cleaner fitting
- Depth 60 mm hinge side or 40 mm opposite hinge side



Profile frame

- Profile width up to 375 mm
- Special frames with edge recess for an individual look
- With double rebate for higher acoustic insulation (up to 42 dB)

Profile frame, double-shell

- Profile width up to 375 mm
- Welded in the mitred area
- Separated invisibly in the lining groove
- For refurbishing and retrofitting



Block frame 62 / 55

- Flush-fitting on both sides for flush doors STS
- Flush wall fitting with optional patented fitting material

Block frame 62 / 75

- 60 mm wide frame depth (for 90° openings in hallways)
- Flush-fitting on both sides for flush doors STS
- Flush wall fitting possible



Block frame 95

- Version with frame depth of 55 mm or 75 mm
- Flush-fitting on one side for flush doors STS

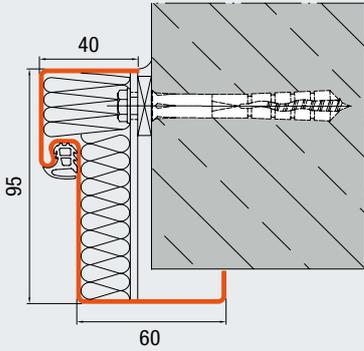
Block frame 105 / 100

- 85 mm wide frame depth (for 90° openings in hallways)
- For doors with operator equipment
- Flush-fitting on one side for flush doors STS

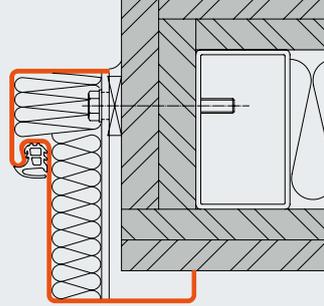
Stainless Steel Doors

Frame types

Standard corner frame 40



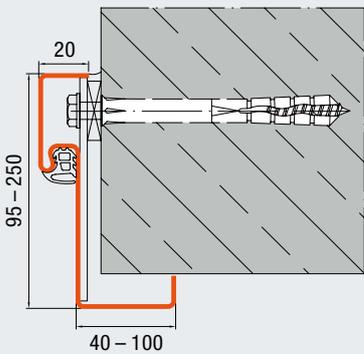
Concrete / brickwork
(standard)



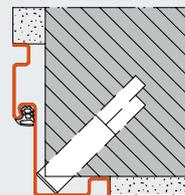
Screw-fixing
(partition wall)

Advantage:
No mortice work
required for
fitting elements
of the frame

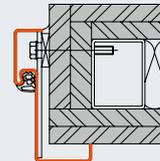
Individual corner frame



Concrete / brickwork
(standard)

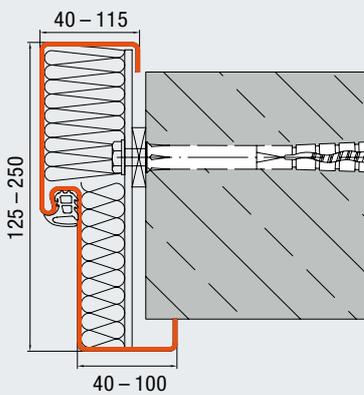


Anchor fitting
(concrete / brickwork)

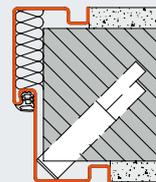


Screw-fixing
(partition wall)

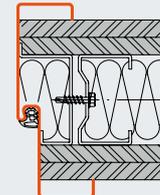
Profile frame



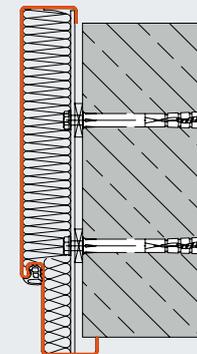
Concrete / brickwork
(standard plug-and-
screw fitting up to
250 mm profile
width, 1 plug)



Anchor fitting
(concrete / brickwork)

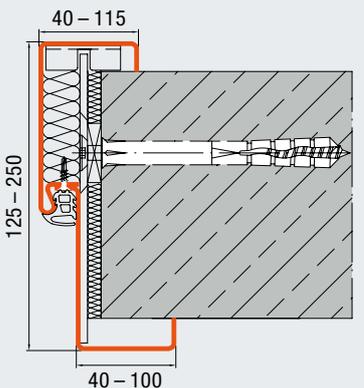


Screw-fixing
(partition wall)

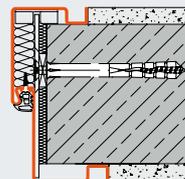


Standard plug-and-screw fitting
up to 250 mm profile width, 2 plugs
(concrete / brickwork)

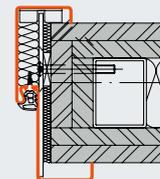
Double-shell profile frame



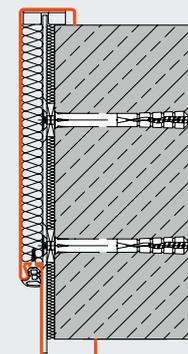
Concrete / brickwork
(standard)



Plug-and-screw fitting
(concrete / brickwork)



Screw-fixing
(partition wall)

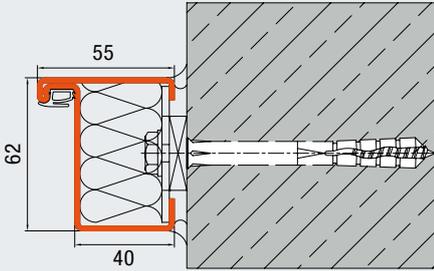


Plug-and-screw fitting
(brickwork / concrete, two plugs)

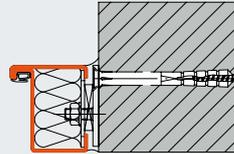


**Simple flush wall fitting
with patented stainless steel fitting set**

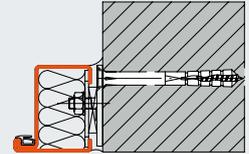
Block frame 62 / 55 mm and 62 / 75 mm



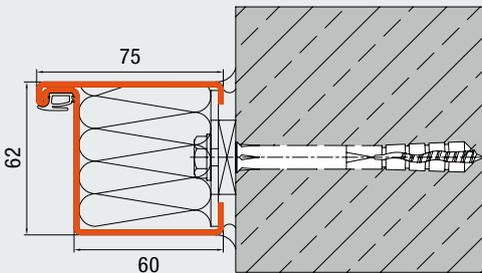
Block frame 62 / 55
Concrete / brickwork (standard)



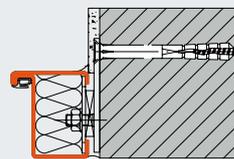
Plug-and-screw fitting
(concrete / brickwork,
flush wall fitting, hinge side)



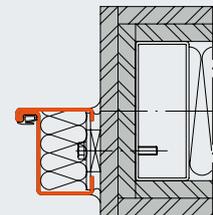
Plug-and-screw fitting
(concrete / brickwork, flush wall
fitting, opposite hinge side)



Block frame 62 / 75
Concrete / brickwork (standard)

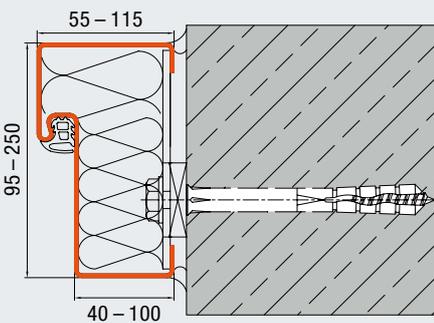


Plug-and-screw fitting
(brickwork, anchor plate 95,
plastered, flush wall fitting,
hinge side)

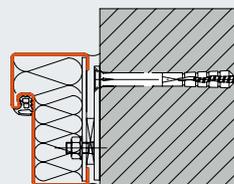


Screw-fixing
(partition wall)

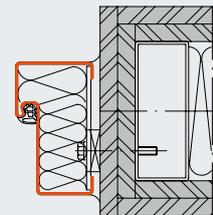
Block frame 95 / 55 mm and 105 / 100 mm



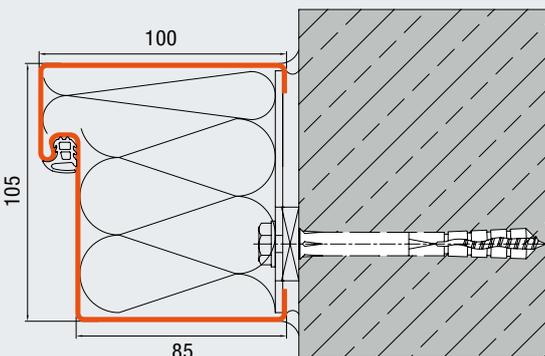
Block frame 95 / 55
Concrete / brickwork (standard)



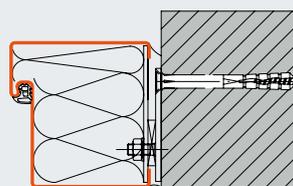
Plug-and-screw fitting
(concrete / brickwork,
flush wall fitting, hinge side)



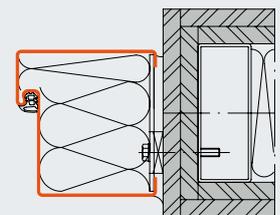
Screw-fixing
(partition wall)



Block frame 105 / 100
Brickwork (standard)



Plug-and-screw fitting
(brickwork, flush wall fitting,
hinge side)



Screw-fixing
(partition wall)

All dimensions in mm

Stainless Steel Doors

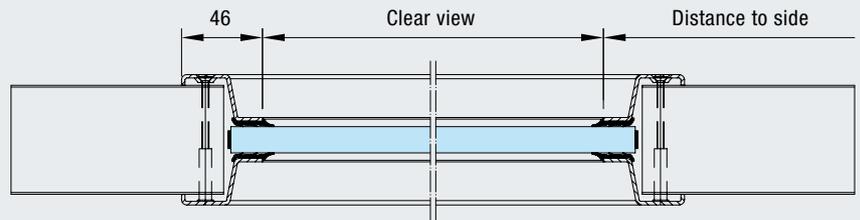
Glazing variants, fixed top panels and ventilation grilles



Surface-mounted stainless steel profile V2 A 1.4301 or V4 A 1.4571

Stainless steel glazing frame

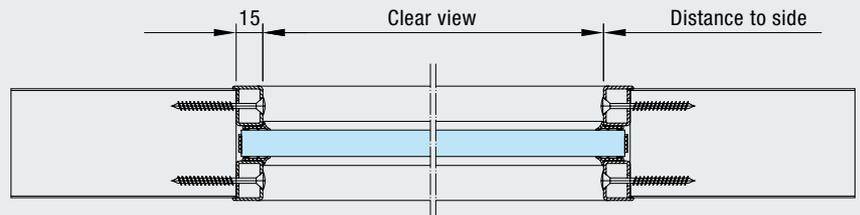
The glazing profiles are supplied in brushed stainless steel V2 A 1.4301 as standard. The flush stainless steel glazing profiles are particularly suited for architectural solutions of the highest quality. The surface-mounted stainless steel profiles can also be supplied in V4 A 1.4571.



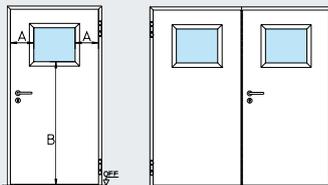
Standard glazing with surface-mounted stainless steel profile without visible screws on the hinge side for rectangular and round glazing.



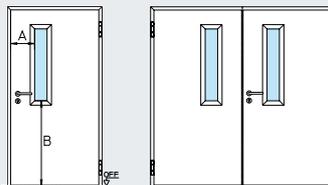
Flush stainless steel profile V2 A 1.4301



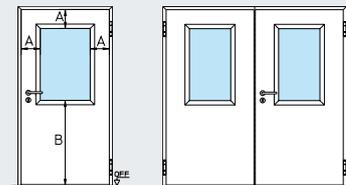
Optional glazing with flush stainless steel profile for rectangular glazing (only for MZ, T30 / EI230, only possible in V2 A, 1.4301)



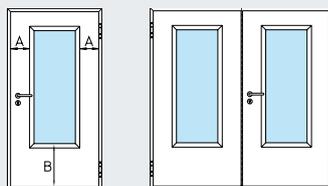
Glazing view 0
Distance to side A: 270 mm
Bottom section height B: 1400 mm



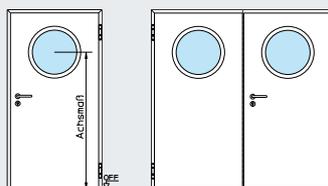
Glazing view 1
Distance to side A: 270 mm
Bottom section height B: 965 mm



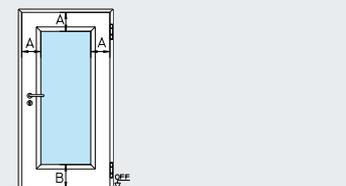
Glazing view 2
Distance to side A: 270 mm
Bottom section height B: 965 mm



Glazing view 3
Distance to side A: 270 mm
Bottom section height B: 500 mm



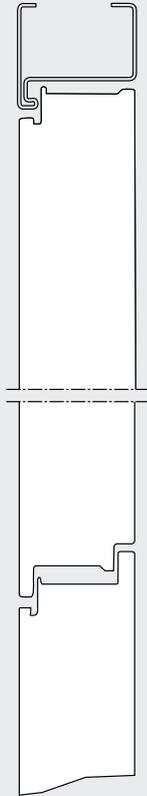
Round glazing
Axis dimension: bottom edge of door leaf to centre of cut-out 1550 mm



Glazing of choice
Distance to side A: 215 mm
Bottom section height B: 215 to 715 mm

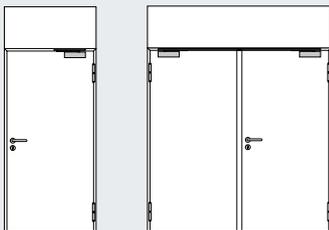
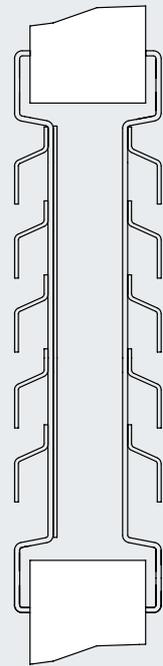
Fixed top panels in stainless steel

The fixed top panels allow you to individually design room-high doors for your facility. They offer a harmonious look thanks to the surrounding vertical frame profiles.

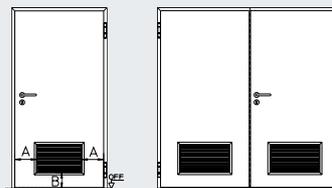


Ventilation grille in stainless steel

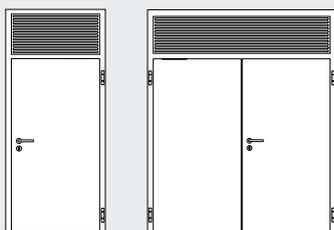
All ventilation grilles consist of safety stainless steel sheet with an internal perforated stainless steel sheet. Also optionally available are versions with stainless steel insect protection fabric with a mesh size of 1.4 mm.



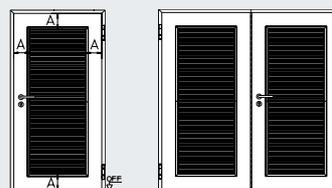
With stainless steel panel



With stainless steel ventilation grille
(only multi-purpose doors STS / STU)



With stainless steel ventilation grille
(only multi-purpose doors STS / STU)



With stainless steel ventilation grille
(only multi-purpose doors STS / STU)

Stainless Steel Technical Room Door Aqua STS / STU

Single-leaf, flush, fully bonded



STS
Flush



STU
Thick rebate

Main function



Technical room door / multi-purpose door
With water-resistant PU infill



Thermal insulation
 $U_D = 1.3 - 2.5 \text{ W}/(\text{m}^2 \cdot \text{K})$
Dependent on door size for doors without glazing or top panels



Stainless steel
V2 A 1.4301
V4 A 1.4571

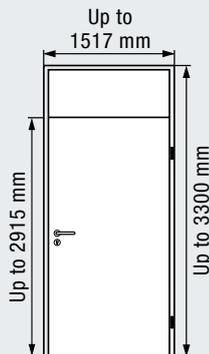
Additional functions



Smoke-tight
With retractable bottom seal (without top panel)



Break-in-resistant
RC 2 (STU, without top panel)



The size information is related to the overall frame dimension (block frame).

Stainless steel door

Door leaf

Sheet thickness

Rebate type

Single-leaf

62 mm

0.8 mm

STS:
Flush
STU:
Thick rebate

Fitting in

- Brickwork •
- Concrete •
- Gas concrete •
- Partition walls •
- Cladded steel supports / girders •
- Panel wall •

| Stainless steel multi-purpose door | Single-leaf | |
|--|-------------|-------------|
| | Width | Height |
| Size range*** | | |
| Overall frame dimension (ordering size) block frame | 610 – 1517 | 855 – 2915 |
| With fixed top panel | | 1100 – 3300 |
| Height top panel | | 300 – 1000 |
| Nominal size steel frame | 540 – 1397 | 820 – 2855 |
| Clear passage dimension* | 500 – 1317 | 800 – 2815 |
| Opening width traffic leaf* | | |

* With an opening angle of 90° and without the fittings, the clear passage width is reduced by 57 mm (STS) or 29 mm (STU).

** Depending on the selected overhead door closer, larger minimum door dimensions may be required!

*** Larger door sizes available on request

All information in accordance with approval and technical feasibility. Actual dimensions may differ depending on the frame type, frame depth, or width-height ratio of the door.

Stainless Steel Multi-Purpose Door STS / STU

Single and double-leaf, flush, fully bonded



STS
Flush



STU
Thick rebate



Main function
Multi-purpose door
With mineral wool infill



Thermal insulation
 $U_D = 1.3 - 2.5 \text{ W/(m}^2\cdot\text{K)}$
Dependent on door size for doors without glazing or top panels



Stainless steel
V2 A 1.4301
V4 A 1.4571



Additional functions
Smoke-tight
With retractable bottom seal (without top panel)



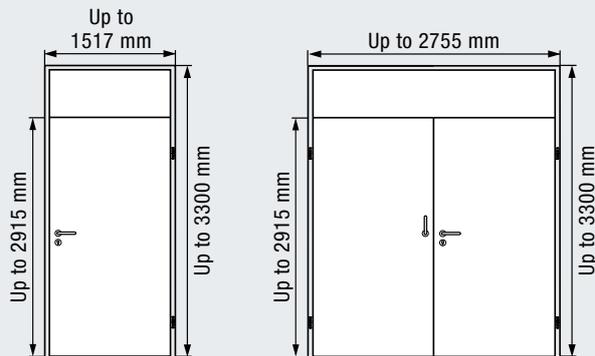
Acoustic rating
Up to 32 dB with retractable bottom seal up to 42 dB with double rebate frame



Break-in-resistant
RC 2 (STU, without top panel)



Break-in-resistant
RC 3 (STU, without top panel)



The size information is related to the overall frame dimension (block frame).

Stainless steel door

Door leaf

Single-leaf

62 mm

Double-leaf

62 mm

Sheet thickness

0.8 mm

0.8 mm

Rebate type

STS:

Flush

STU:

Thick rebate

STS:

Flush

STU:

Thick rebate

Fitting in

| | | |
|----------------------------------|---|---|
| Brickwork | • | • |
| Concrete | • | • |
| Gas concrete | • | • |
| Partition walls | • | • |
| Cladded steel supports / girders | • | • |

| Stainless steel multi-purpose door | Single-leaf | | Double-leaf | |
|--|-------------|-------------|---------------|-------------|
| | Width | Height | Width | Height |
| Size range*** | | | | |
| Overall frame dimension (ordering size) block frame | 610 – 1517 | 855 – 2915 | 1110** – 2755 | 855 – 2915 |
| With fixed top panel | | 1100 – 3300 | | 1100 – 3300 |
| Height top panel | | 300 – 1000 | | 300 – 1000 |
| Nominal size steel frame | 540 – 1397 | 820 – 2855 | 1040** – 2635 | 820 – 2855 |
| Clear passage dimension* | 500 – 1317 | 800 – 2815 | 1000 – 2550 | 800 – 2815 |
| Opening width traffic leaf* | | | 500 – 1319 | |

* With an opening angle of 90° and without the handles and levers, the clear passage width is reduced by 57 mm (STS) or 29 mm (STU), and for double-leaf doors by 114 mm (STS) or 58 mm (STU).

** Depending on the selected overhead door closer, larger minimum door dimensions may be required!

*** Larger door sizes available on request

All information in accordance with approval and technical feasibility. Actual dimensions may differ depending on the frame type, frame depth, or width-height ratio of the door.

T30 / EI₂30 Stainless Steel Fire-Rated Door STS 30 / STU 30

Single and double-leaf, flush, fully bonded



STS 30

Flush



STU 30

Thick rebate

Main function

T30 / EI₂30

fire-retarding

With fire protection insert

T30

EI₂30

U_D

Thermal insulation

U_D = 1.3 – 2.5 W/(m²·K)

Dependent on door size for doors without glazing or top panels



Stainless steel

V2 A 1.4301

V4 A 1.4571

Additional functions

Smoke-tight

With retractable bottom seal (without top panel)

RS

Sm

Acoustic rating

dB

Up to 32 dB with retractable bottom seal

Up to 42 dB with double rebate frame

RC 2

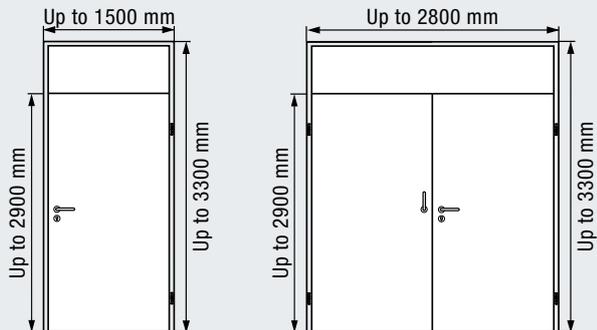
Break-in-resistant

RC 2 (STU 30)

RC 3

Break-in-resistant

RC 3 (STU 30)



The size information is related to the overall frame dimension (block frame).

Stainless steel fire-rated door

Door leaf

Sheet thickness

Rebate type

Single-leaf

62 mm

Min. 0.80 mm

STS 30:

Flush

STU 30:

Thick rebate

Double-leaf

62 mm

Min. 0.80 mm

STS 30:

Flush

STU 30:

Thick rebate

Fitting in

Brickwork

≥ 115 mm

≥ 115 mm

Concrete

≥ 100 mm

≥ 100 mm

Gas concrete

≥ 200 mm

≥ 200 mm

Partition walls

≥ 100 mm

≥ 100 mm

Cladded steel supports / girders

≥ F60 A

≥ F60 A

| STS 30 / STU 30 | Single-leaf | | Double-leaf | |
|---|-------------|-------------|---------------|-------------|
| | Width | Height | Width | Height |
| Size range*** | | | | |
| Overall frame dimension (ordering size) block frame | 615 – 1500 | 1745 – 2900 | 1129** – 2800 | 1745 – 2900 |
| With fixed top panel | | 1845 – 3300 | | 1845 – 3300 |
| Height top panel | | 300 – 1000 | | 300 – 1000 |
| Nominal size steel frame | 545 – 1380 | 1710 – 2840 | 1059** – 2680 | 1710 – 2840 |
| Clear passage dimension* | 505 – 1300 | 1690 – 2800 | 1019** – 2600 | 1690 – 2800 |
| Clear passage dimension traffic leaf* | | | 511** – 1309 | |

* With an opening angle of 90° and without the handles and levers, the clear passage width is reduced by 57 mm (STS) or 29 mm (STU), and for double-leaf doors by 114 mm (STS) or 58 mm (STU).

** Depending on the selected overhead door closer, larger minimum door dimensions may be required!

*** Larger door sizes available on request

All information in accordance with approval and technical feasibility. Actual dimensions may differ depending on the frame type, frame depth, or width-height ratio of the door.

T90 / EI₂90 Stainless Steel Fire-Rated Door STS 90 / STU 90

Single and double-leaf, flush, fully bonded



STS 90
Flush



STU 90
Thick rebate

Main function

T90 / EI₂90 fire-proof
With fire protection insert



Thermal insulation
 $U_D = 1.3 - 2.5 \text{ W}/(\text{m}^2 \cdot \text{K})$
Dependent on door size for doors without glazing or top panels



Stainless steel
V2 A 1.4301
V4 A 1.4571

Additional functions

Smoke-tight
With retractable bottom seal (without top panel)



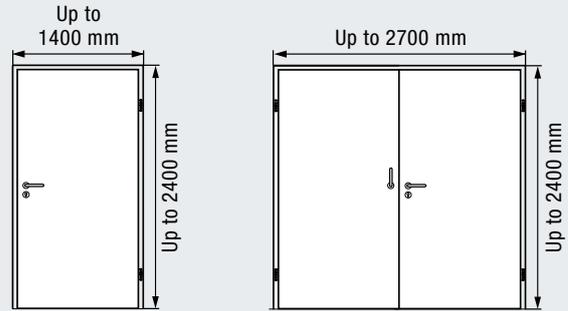
Acoustic rating
Up to 37 dB with retractable bottom seal



Break-in-resistant
RC 2 (STU 90)



Break-in-resistant
RC 3 (STU 90)



The size information is related to the overall frame dimension (block frame).

Stainless steel fire-rated door

Door leaf

Single-leaf

Double-leaf

Sheet thickness

Min. 0.80 mm

Min. 0.80 mm

Rebate type

STS 90:
Flush
STU 90:
Thick rebate

STS 90:
Flush
STU 90:
Thick rebate

Fitting in

| | Single-leaf | Double-leaf |
|----------------------------------|-------------|-------------|
| Brickwork | ≥ 240 mm | ≥ 240 mm |
| Concrete | ≥ 140 mm | ≥ 140 mm |
| Gas concrete | ≥ 200 mm | ≥ 200 mm |
| Partition walls | ≥ 150 mm | ≥ 150 mm |
| Cladded steel supports / girders | ≥ F120 A | ≥ F120 A |

| STS 90 / STU 90 | Single-leaf | | Double-leaf | |
|--|-------------|-------------|---------------|-------------|
| | Width | Height | Width | Height |
| Size range*** | | | | |
| Overall frame dimension (ordering size) block frame | 615 – 1400 | 1745 – 2400 | 1129** – 2700 | 1745 – 2400 |
| Nominal size steel frame | 545 – 1280 | 1710 – 2340 | 1059** – 2580 | 1710 – 2340 |
| Clear passage dimension* | 505 – 1200 | 1690 – 2300 | 1019** – 2500 | 1690 – 2300 |
| Clear passage dimension traffic leaf* | | | 511** – 1309 | |

* With an opening angle of 90° and without the handles and levers, the clear passage width is reduced by 57 mm (STS) or 29 mm (STU), and for double-leaf doors by 114 mm (STS) or 58 mm (STU).

** Depending on the selected overhead door closer, larger minimum door dimensions may be required!

*** Larger door sizes available on request

All information in accordance with approval and technical feasibility. Actual dimensions may differ depending on the frame type, frame depth, or width-height ratio of the door.

Stainless Steel Visibility Windows and Frames





Versatile range

The visibility window range provides acoustic and thermal insulation, radiation or fire protection in G30, F30 and F90, as well as break-in-resistance and an anti-fall safeguard. With only a few exceptions, each of these main functions can be combined with additional functions.



Integrated screen

Roller blinds and shades can be integrated into the fixed glazing, depending on the version. They act not only as a screen, but also regulate light distribution and the indoor climate.



Individual frame types

The Hörmann steel frame programme offers optimum solutions for fitting in solid walls and partition walls. We offer door, window and passage frames with segmental or Norman arches, as well as combinations with side elements and transom lights.

Stainless Steel Visibility Windows

For individual solutions

Functions



Thermal insulation



Acoustic insulation



Radiation protection



Screen



Break-in-resistant
RC 2



Break-in-resistant
RC 3



Break-in-resistant
RC 4



Anti-fall safeguard
As per TRAV



Opening



Stainless steel
V2 A 1.4301
V4 A 1.4571



Hörmann visibility windows are used a single or multiple elements for more light and better visibility. For example, between operations office and production, between warehouse and shipping, as well as in administrative wings and technological areas. Individual solutions can be implemented using rail partitions, beam recesses and slopes for stairways.

| | HW-D-SD | HW-D-ISO | HW-D-PB | HW-D-Slide |
|---------------------------------|---------|----------|---------|------------|
| Thermal insulation | ● | ○ | ○ | |
| Acoustic insulation | ○ | ● | ○ | |
| Radiation protection | ○ | ○ | ● | |
| Screen | ○ | ○ | ○ | |
| Break-in-resistant RC 2 | ○ | ○ | ○ | |
| Break-in-resistant RC 3 | ○ | ○ | ○ | |
| Break-in-resistant RC 4 | ○ | ○ | ○ | |
| Anti-fall safeguard as per TRAV | ○ | ○ | ○ | |
| Opening | | | | ● |

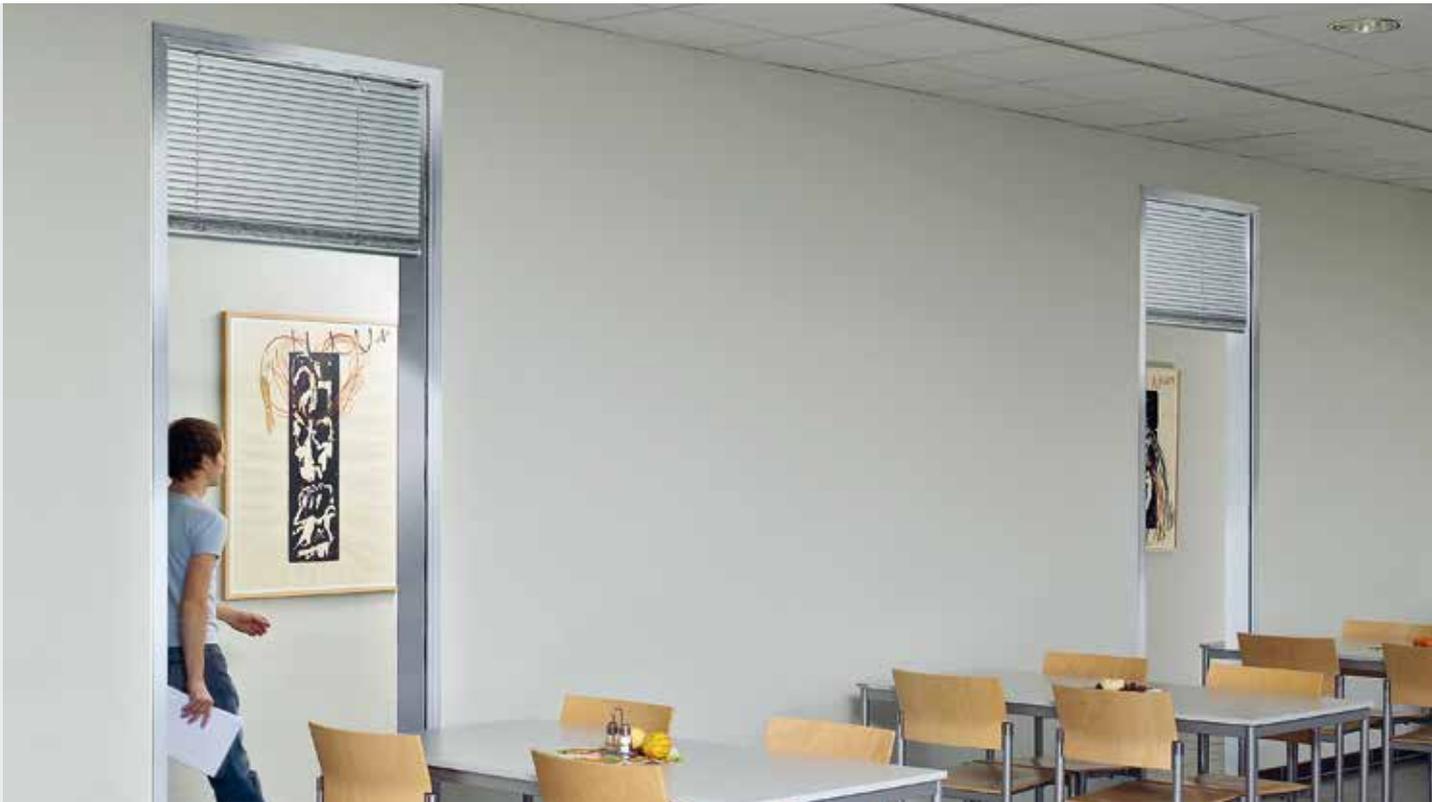
● Main function

○ Additional function with corresponding equipment

* Possible with case-by-case approval

Stainless Steel Visibility Windows

Screen variants regulate light distribution and the indoor climate



Screen in pane gap



Blinds

Operation:

Via a motor (24 V)

Curtain:

Opaque for darkening
(silver / black or silver / silver)



Blinds

Operation:

Via a motor (24 V) or manual
operation with a solenoid

Slat width:

16 mm

Slat colour:

Silver (standard), white,
beige, blue, yellow

Screen in window gap



Blinds

Operation:

Via a motor (24 V / 230 V)

Curtain:

Silver (standard), grey,
white, terracotta, red, blue,
green, yellow

The curtain can be used to
dim the room with (optional)
side guide rails.



Blinds

Operation:

Via a motor (24 V / 230 V)

Slat width:

16 mm, 25 mm (standard),
35 mm

Curtain:

Silver (standard), grey, white,
terracotta, red, blue, green,
yellow

Stainless Steel Visibility Windows

Glazing and steel frames

Frame look



Rectangular (standard)



Decorative rebate



Edge recess



Radii

Glazing types



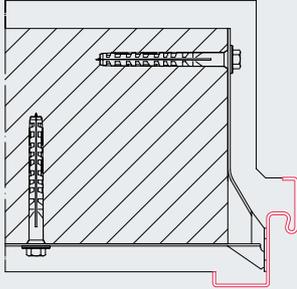
Rectangular tube



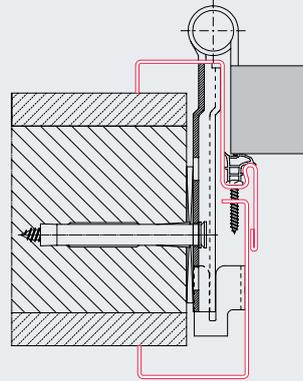
Centre glazing

Stainless Steel Frames

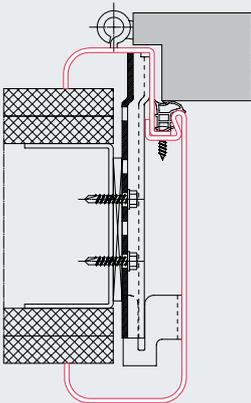
Our wide frame system for rebated and flush door leaves and sliding doors



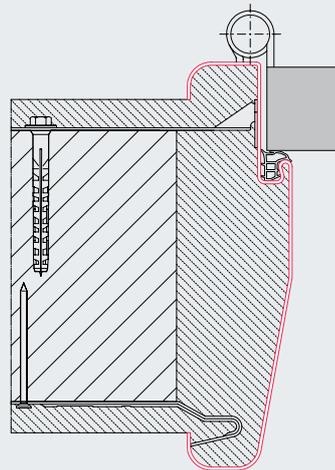
Corner frame DIN 18111
For brickwork



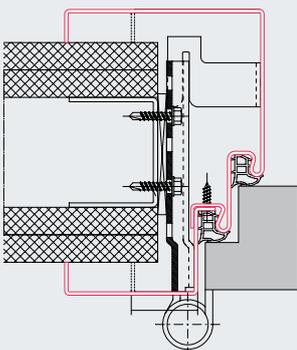
Profile frame profile
Double-shell with wall width adjustment and single rebate



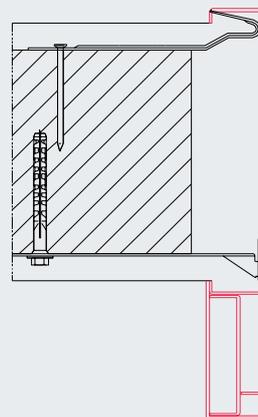
Profile frame profile
Double-shell with radii and single rebate on both sides



Profile frame profile
1-part with chamfered reveal and radii



Double rebate profile
Double-shell



Sliding door frame profile
Single and double-leaf

Stainless Steel Sliding Doors

High-quality versions for the project sector;
functional solutions for the industrial sector





High-quality overall look

High-quality overall look with patented groove / spring element connection

Hörmann stainless steel sliding doors offer a modern door appearance through a patented V groove at the element joint without visible screw connections. The high stability is ensured through the interlocked, toothed labyrinth plug-in profile. The elements are 72 mm wide, fully glued and flush, and aligned with each other through stainless steel threaded rods. This creates a high-quality door leaf with parallel, uniform-width borders.



Precise stainless steel door leaf guidance

Precise door leaf guidance with patented rail

The cylindrical stainless steel track roller and the stable stainless steel guide roller, in conjunction with the patented stainless steel track, provide an optimal force balance. Quiet operation and easy actuation is ensured thanks to a suspension with ball-bearing and high corrosion resistance.



Wicket door without threshold rail

Wicket doors without threshold rail provide more convenience and safety

Hörmann is the only manufacturer with licensed trip-free stainless steel wicket doors for smoke-tight sliding doors. Opening the wicket doors in both directions is possible – depending on the rescue route planning. They can be variably fitted to open either into the reveal or away from it. Furthermore, two wicket doors per door leaf are possible – even opening in opposite directions – as well as glazing in the door set with stainless steel glazing beads.

Stainless Steel Sliding Doors

Quality in the details



**Approved and certified in accordance
with EN 12605 class C5 (long-term
function tests with 200000 door cycles)**

Attractive stainless steel components

All fitting components for Hörmann stainless steel sliding doors such as recessed handles, handles, attractive lever handle sets, sports hall recessed levers and the 3-way adjustable wicket door hinge systems are made of high-quality stainless steel V2 A 1.4301. For fire sliding doors, the closing weight components are also optionally available made of stainless steel V2 A 1.4301.

1 Narrow overall door construction

- Depth of just 132 mm
- Minimum width for recess flaps: 160 mm to max. 360 mm (flap width)
- Recess width: 180 mm to max. 380 mm

2 Stainless steel track panel

- Blends well with the door leaf
- Easy fitting with few screw fittings

3 Closing weights

- Easy fitting and maintenance with screw-mountable steel weights
- Optional screw-mountable stainless steel weights

4 Guiding profile / centring device

- Centring device for precise door guidance in the guiding profile

5 Guidance damper

- Holder in stainless steel version V2 A
- Integrated into the door leaf for single-leaf fire sliding doors T30 / EI₂30

6 Integrated guide roller

- Horizontally adjustable
- Concealed in door leaf after fitting

7 Hydraulic track control

- For continuously adjustable closing speeds (0.08 – 0.2 m/s)
- Invisibly integrated into the weight box

8 Glazing in wicket door and door leaf

- Maximum glass size of 500 mm × 1000 mm
- Stainless steel glazing frame in standard size 468 mm × 815 mm

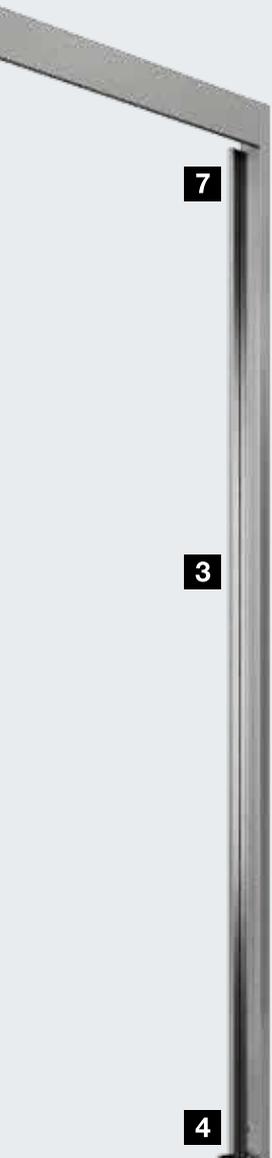
9 Grip and recessed handles

10

- As standard in high-quality stainless steel version

11 Concealed wicket door / door leaf monitoring via radio

- Concealed cable routing in the door leaf
- Concealed magnetic contact and radio transmitter in the wicket door
- No possibility of operational damage
- Radio receiver in parking area



Stainless Steel Sliding Doors

Special equipment – everything is possible

Compensator

The compensator allows for free positioning of the door leaf with stainless steel fire sliding doors. This means the door can be easily opened, even only halfway, making it ideal as a fire sliding door that is operated multiple times each day. The door closes automatically in the case of fire, with the push of a button or in a power failure. The radial damper for regulating the required timer speed (5 – 12 cm/s) is integrated in the compensator carriage. The compensator is not available for doors with wicket doors.



Opening aid

For automatic opening of stainless steel fire sliding doors with press-and-hold button operation. The integrated hold-open device ensures that the door leaf is secure in the open position. The door is closed via closing weights. The opening aid is maintenance-free and optionally available with a key switch.



Lockable door leaf and wicket door

Single and double-leaf fire sliding doors are optionally available with hook catch locks or curved bolt locks with profile cylinders in the door leaf.

Hook catch lock with stainless steel lock cover

- Backset 120 mm, profile cylinder and KABA
- Backset 250 mm, profile cylinder; for example, for recess flaps

Curved bolt lock with stainless steel lock cover

- Backset 120 mm, profile cylinder and KABA

For simple retrofitting of single and double-leaf stainless steel doors, a retrofit lock in a stainless steel housing is available.





Acoustic and visual / acoustic alarm systems

In addition to the standard alarm system with just an acoustic signal, an optional variant is available with a visual and acoustic signal in accordance with DIN EN 14600 (see illustration).



Smoke sensor

The smoke sensor is available with visual smoke detection (ORS 142) or thermal differential switch (TDS 247). Optionally, the wireless smoke detector (ORS 145) is available with visual smoke detection. The radio transmission reduces the time required for installing new systems, as no cables need to be laid. Special versions can also be installed in cold store areas.



Recess and ceiling flaps in stainless steel

The solution for architecturally demanding areas, in which sliding doors must be inconspicuously integrated.

A vertical recess flap blends the inlet and outlet areas of the door. The minimum width for a recess flap is 180 mm.

In the lintel area, the tracks are horizontally blended with a ceiling flap. It is manually closed. The opening is triggered automatically through a control.

Stainless steel recess and ceiling flaps are also available for telescopic sliding doors.

Recess flap
with the door closed

Recess flap
with the door opened

Stainless Steel Sliding Doors

Single-leaf, double-leaf and telescopic versions

MZ_A

Multi-purpose Aqua
Single-leaf
Double-leaf
Telescopic
With water-resistant PU infill

MZ

Multi-purpose
Single-leaf
Double-leaf
Telescopic
With paper honeycomb infill
or mineral wool infill

T30

Fire-retarding
Single-leaf
Double-leaf
Telescopic
With fire protection insert

EI₂₃₀

T90

Fire-proof
Single-leaf
Double-leaf
Telescopic
With fire protection insert

EI₂₉₀

RS

Smoke-tight
Single-leaf
Double-leaf

Sm



Stainless steel
V2 A 1.4301 K240
V2 A 1.4301 circular finish
V2 A 1.4301 striped finish



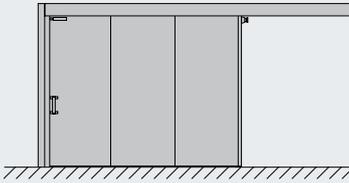
Wicket door
Single-leaf
Double-leaf
Telescopic

Equipment options

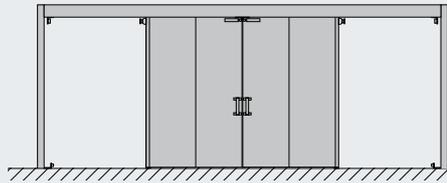
- Stainless steel wicket door without threshold rail
- Glazing in wicket door / element
- Lockable door leaf and wicket door
- Opening aid
- Ceiling/recess flaps made of stainless steel
- Compensator (cannot be combined with wicket door)



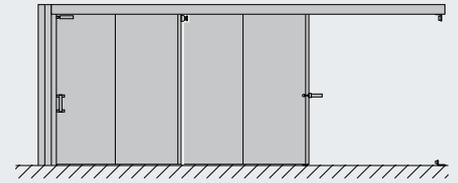
Single-leaf



Double-leaf



Telescopic sliding door

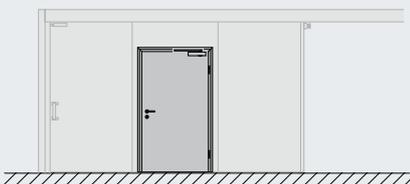


| Size range | Single-leaf | | Double-leaf | | Telescopic | |
|---|----------------------------------|-------------|----------------------------------|-------------|----------------------|-------------|
| | Width | Height | Width** | Height | Width | Height |
| MZ-A multi-purpose Aqua | FST MZ-A-1 | | FST MZ-A-2 | | FST MZ-A-1-T2 | |
| Clear passage dimension | 1000 – 12000 | 2000 – 9000 | 2000 – 9000 | 2000 – 9000 | 2000 – 12000 | 2000 – 9000 |
| MZ multi-purpose | FST MZ-1 | | FST MZ-2 | | FST MZ-1-T2 | |
| Clear passage dimension | 1000 – 12000 | 2000 – 9000 | 2000 – 9000 | 2000 – 9000 | 2000 – 12000 | 2000 – 9000 |
| T30/ EI₂30 fire-retarding | FST 30-1 | | FST 30-2 | | FST 30-1-T2 | |
| Clear passage dimension | 1000 – 8500 | 2000 – 6000 | 2000 – 8500 | 2000 – 6000 | 2000 – 8500 | 2000 – 6000 |
| T90/ EI₂90 fire-proof | FST 90-1 | | FST 90-2 | | FST 90-1-T2 | |
| Clear passage dimension | 1000 – 8000 | 2000 – 6000 | 2000 – 8000 | 2000 – 6000 | 2000 – 8000 | 2000 – 6000 |
| RS smoke-tight * | FST 30-1-RS / FST 90-1-RS | | FST 30-2-RS / FST 90-2-RS | | | |
| Clear passage dimension | 1000 – 7000 | 2000 – 4500 | 2000 – 7000 | 2000 – 4500 | | |
| Minimum door sizes with wicket door | | | | | | |
| For asymmetrical division of leaves | 1650 | 2100 | 2750 | 2100 | 3500 | 2100 |
| For symmetrical division of leaves | 1650 | 2100 | 3500 | 2100 | | |

* With wicket door, max. 20 m²

** Left / right division at least 1000 mm

Wicket door



Stainless steel wicket door

| Size range | Width | Height |
|---|-------------|-------------|
| Standard size | 1000 | 2000 |
| T30/ EI₂30 fire-retarding | 625 – 1200* | 1750 – 2000 |
| T90/ EI₂90 fire-proof | 625 – 1050 | 1750 – 2000 |
| RS smoke-tight | 625 – 1000 | 1750 – 2000 |

* Possible with case-by-case approval

Stainless Steel Sliding Doors

Wicket door without threshold rail





Approval also for smoke-tight sliding doors

Design features

- Rebated door construction without threshold rail
- Optional: design with 22 mm stainless steel threshold rail (e.g. for underground parking ramps)
- With smoke-protection function up to 20 m² door surface
- Up to 2 wicket doors per door leaf
- Wicket door opening in both directions, depending on the source of danger (also in opposite direction of opening)
- Optional glazing: standard size 468 mm × 815 mm, special size max. 500 × 1000 mm

Wicket door monitoring

- Concealed magnetic contact with concealed radio transmission system
- Optional: latch switching contact, electric strike

Overhead door closers

- Standard slide rail overhead door closer HDC 35
- Optional: integrated overhead door closer ITS 96

Fittings

- 3-way adjustable stainless steel hinges, for easy door adjustment
- Optional: stainless steel linkage door closer

Lock Variants

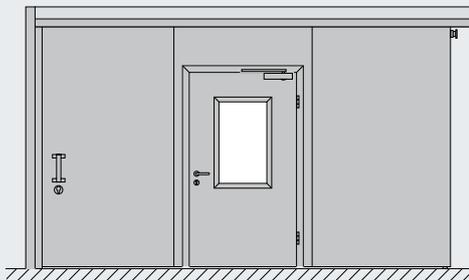
- Mortise lock for fire-rated and smoke-tight doors in accordance with DIN 18250 (standard BKS 1206) with stainless steel lock cover
- Optional: panic function in accordance with EN 179 and EN 1125 for wicket doors opening into the reveal with stainless steel lock cover
- Optional: stainless steel mortise lock

Clear passage

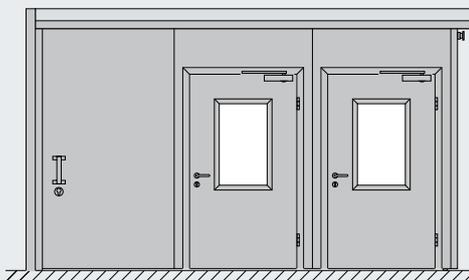
- MZ: up to 1000 × 2000 mm (standard)
- T30 / EI₂30: up to 1000 × 2000 mm (standard)
- T30 / EI₂30: up to 1200* × 2000 mm (according to the requirements of the high-rise policy HHRL M-V)
- T90 / EI₂90: up to 1000 × 2000 mm

* Possible with case-by-case approval

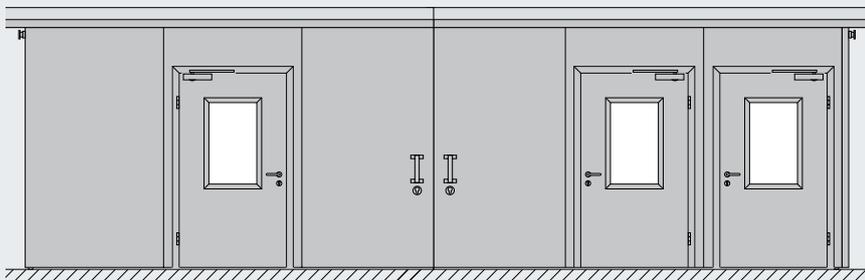
Approved variants of the wicket door



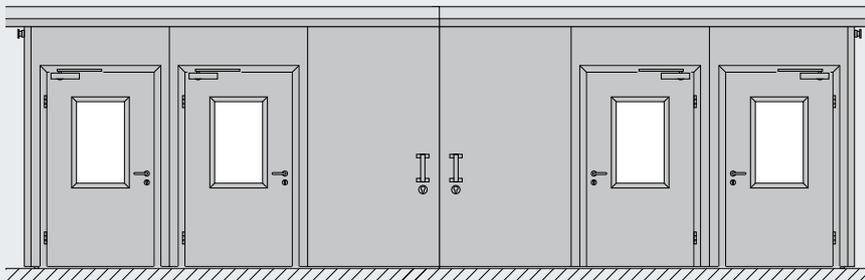
Single-leaf with wicket door



Single-leaf with two wicket doors



Double-leaf with three wicket doors



Double-leaf with four wicket doors

Stainless Steel High-Speed Door V 2515 Food L

Particularly easy to fit and service





Security as standard

Non-contact technology

The standard safety light grille monitors the closing zone of the door up to a height of 2500 mm. A closing edge safety device is not required. Fitting in the frame also reduces the risk of collision damage. These advantages are what makes Hörmann high-speed doors especially easy to service and fit.



Optimised operations

Impulses for a longer service life and increased efficiency

At Hörmann, you receive all high-speed doors with a frequency converter control (FU) as standard – for fast, safe and low-wear door travel. Higher opening and closing speeds help you to optimise your operations and reduce heat losses and draughts at the workplace. In addition, they relieve the entire door mechanism through the smooth starting and braking action which considerably extends the service life of the door.



Easy to clean

Guide rails are particularly easy to clean thanks to their open construction with edge protection and water run-off in the floor area. High-pressure cleaning systems and water are not a problem for the door construction. Counter weights and springs do not impede the cleaning of the frames.

Stainless Steel High-Speed Door V 2515 Food L

Internal door for wet areas in the food industry



Stainless steel
V2 A 1.4301

Design

The door V 2515 Food L is an excellent solution for a wide variety of applications for interior use, particularly in the food industry. The entire self-supporting door construction is made of stainless steel V2 A. This includes the door with operator and shaft cover, as well as the door shaft.

Spray-water protected

The drive is completely enclosed in a spray-water protected operator cover made of V2 A stainless steel (protection category IP 65).

The safety light grille complies with protection category IP 67.

The door is supplied with a LDPE seal and a safety light grille in the frame as standard.



| Internal door | V 2515 Food L | |
|--------------------------|--|---------|
| Size range | Max. width (LDB) | 2500 mm |
| | Max. height (LDH) | 3000 mm |
| Speed | With FU control BS 150 FU E H V2 A as standard | |
| | Max. opening | 1.2 m/s |
| | Max. closing | 0.5 m/s |
| Curtain | With spring steel in curtain pockets | |
| | Fabric thickness | 1.5 mm |
| | Vision panel thickness | 2.0 mm |
| Curtain colours | RAL 1018 Zinc yellow | |
| | RAL 2004 Pure orange | |
| | RAL 3002 Carmine red | |
| | RAL 5010 Gentian blue | |
| | RAL 7038 Agate grey | |
| Emergency opening | Optional: automatic door opening via UPS | |
| | In case of power failure (BS 150 FU E H V2 A USV, 230 V) | |

Stainless Steel High-Speed Door V 2515 Food L

Accessories

Controls



BS 150 FU E H
FU control in stainless steel control cabinet IP 65 single-phase, 230 V

Operation
Membrane push button
"Open-Stop-Close"
4x 7-segment display for information on door operation

Function
Automatic timer,
adjustable hold-open phase,
safety light grille,
Stop / re-open

Pulse generator
Push button, pull switch,
palm/mushroom button,
radar presence detector,
slots for induction loop
evaluator and remote control

Housing dimensions
300 x 400 x 150

UPS
In stainless steel control cabinet IP 65

Operation
Membrane push button
"Open-Stop-Close"
"Emergency-off" button,
4x 7-segment display for
information on door operation,
lockable main switch

Function
Automatic timer,
adjustable hold-open phase,
safety light grille,
stop / re-open

Housing dimensions
400 x 600 x 200

Operating accessories



1-button hand transmitter HS 1 BS
Textured surface, black with chrome caps



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

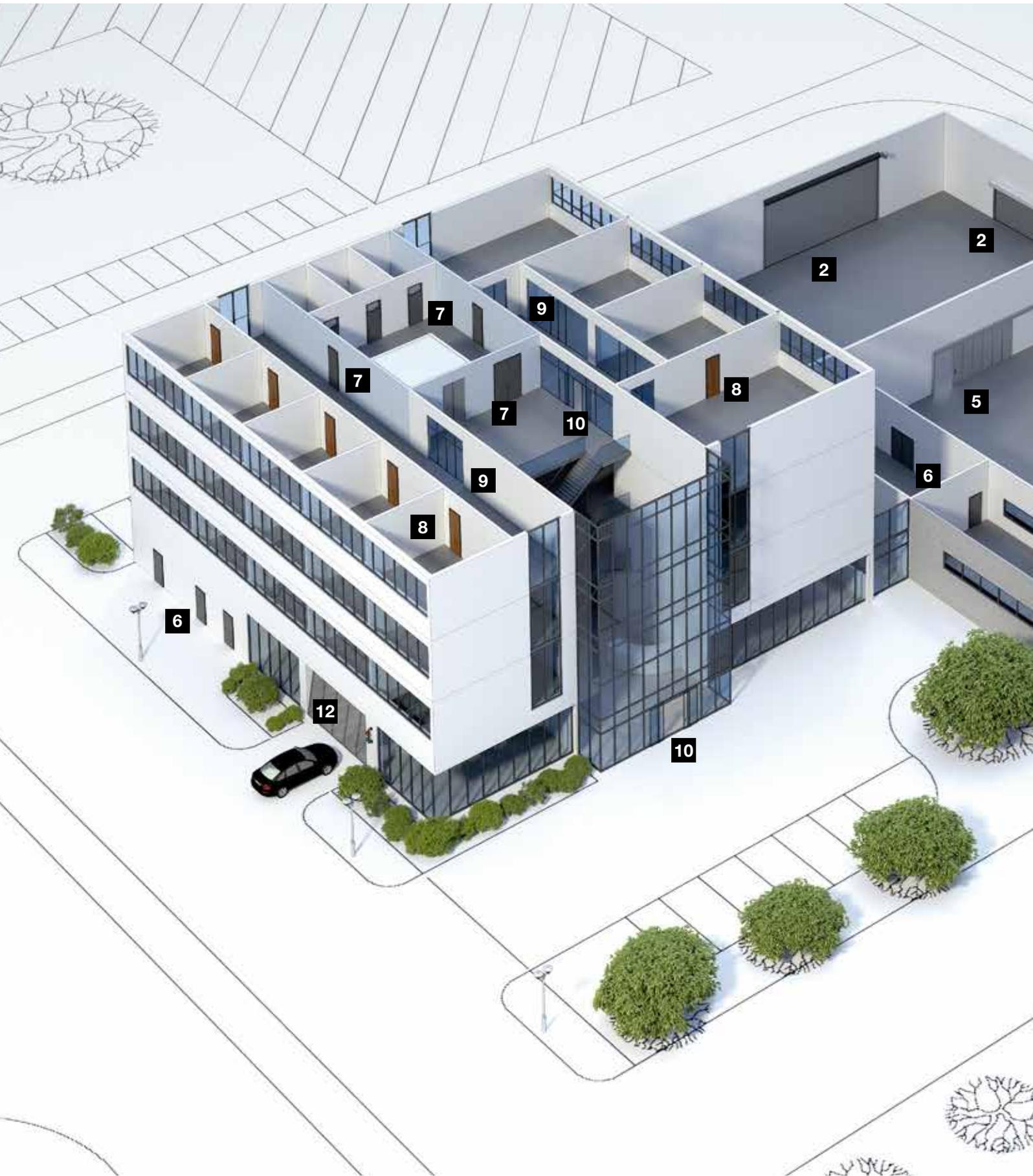


Radar movement detector MWD
Fast and targeted automatic door opening,
directional recognition, max. fitting height 7 m,
fitting in cold store possible up to max. -22 °C,
housing protection category IP 65

Further operating and control options can be found in the High-Speed Doors brochure

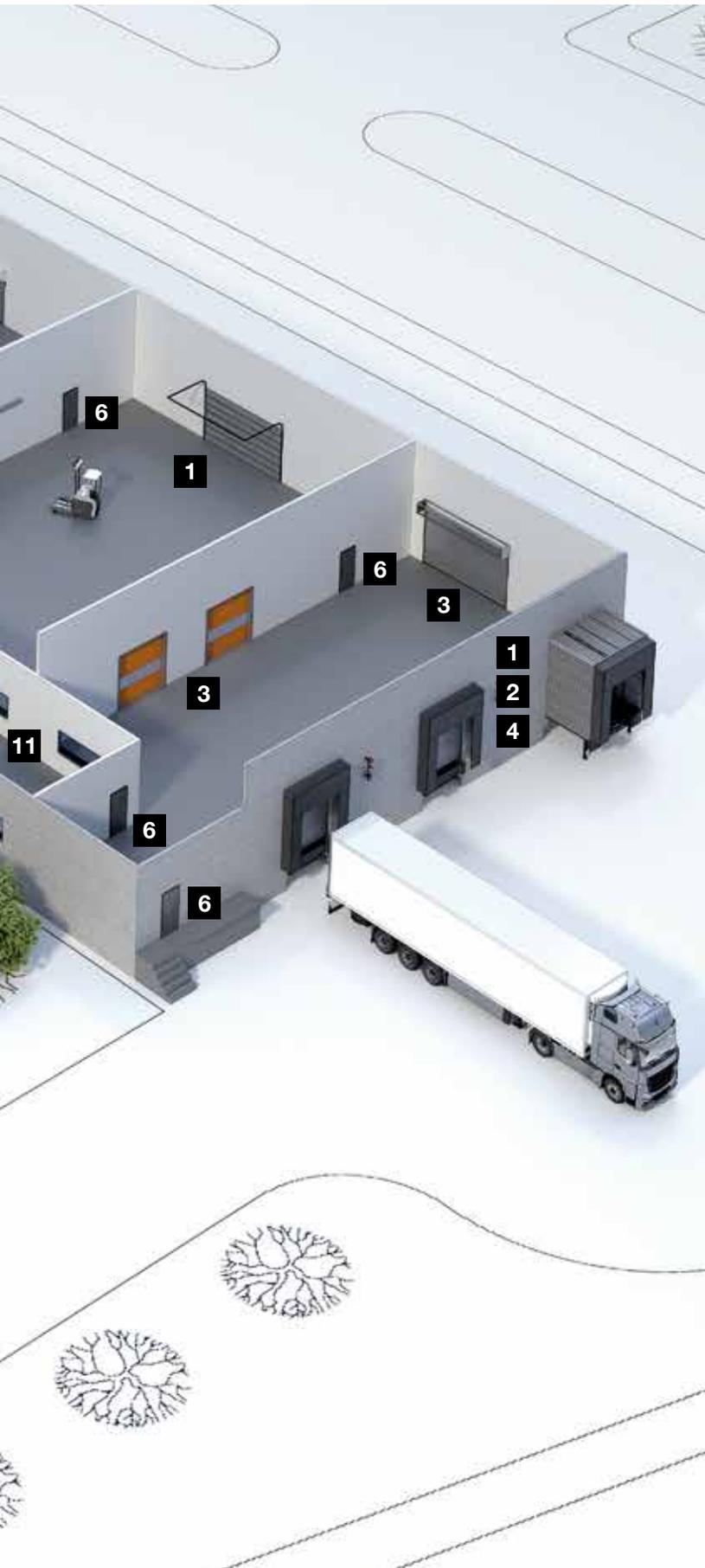
Hörmann product range

Everything from a single source for your construction project





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



Sectional doors



Rolling shutters and rolling grilles



High-speed doors



Loading technology



Steel and stainless steel sliding doors



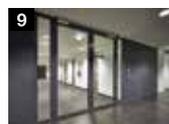
Steel and aluminium multi-function doors



Steel and stainless steel doors



Steel frames with high-quality timber function doors from Schörghuber



Fully glazed tubular frame parts



Automatic sliding doors



Visibility window



Collective garage doors

Hörmann: Quality without Compromise



Hörmann KG Amshausen, Germany



Hörmann KG Antriebstechnik, Germany



Hörmann KG Brandis, Germany



Hörmann KG Brockhagen, Germany



Hörmann KG Dissen, Germany



Hörmann KG Eckelhausen, Germany



Hörmann KG Freisen, Germany



Hörmann KG Ichttershausen, Germany



Hörmann KG Werne, Germany



Hörmann Genk NV, Belgium



Hörmann Alkmaar B.V., Netherlands



Hörmann Legnica Sp. z o.o., Poland



Hörmann Beijing, China



Hörmann Tianjin, China



Hörmann LLC, Montgomery IL, USA



Hörmann Flexon LLC, Burgettstown PA, USA

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

GARAGE DOORS
OPERATORS
INDUSTRIAL DOORS
LOADING EQUIPMENT
HINGED DOORS
DOOR FRAMES

