

Horizontal Sliding Walls Technical brochure 2021

HSW EASY Safe FSW EASY Safe HSW-R HSW FLEX Therm

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Support and Guide Elements



The right stacking arrangement for any situation

Perfect parking every time

Existing structures or unusual layouts often require special solutions, particularly in the design of the stacking area. dormakaba HSW systems can be parked in a range of different positions. The stack of panels can be aligned parallel or square to the frontage, be readily visible for effect or hidden behind columns etc. Another possibility is that of parking the system in line but out of the way, whether behind a wall or in a niche (see also pages 8). The panels can also perform certain functions when the frontage is open, such as providing the sides of internal store windows and showcases, or, if provided with the appropriate printing on the glass, for adding artistic value to a wall. The following pages show some system solutions devised in answer to a wide range of different problems.





Panels transverse to travel direction

Panels stacked 90° angle transverse to travel direction





Panels parallel to travel direction





Special stacking arrangements



Stacking at the wall in closed compartment behind pivoting end panel, single- or double-action

Stacking at the wall in closed compartment without pivoting end panel, single- or double-action

Stacking in front of 90° wall with reshuffle bypass



Stacking with one stacking leg for sliding panels in front of the pivoting end panel, single- or double-action, on each side (2 pivoting end panels/2 sliding panels).

Stacking arrangement calculations

Panels stacked 90° angle transverse to travel direction

(left or right, or left and right)

T1 150 100 100 а b b b 70 65 0 0 • • 100 n ţΠ Width of stacking track B1 = Panel width – 120 mm – (0.087 × T1) 197 Б B2 = 67 ٩ 97 T3 = T4 - 97 T4 = T1

a = depending on

- pull handle depth b = 65 mm for HSW EASY Safe 80 mm for HSW-R

Stacking legs at 135° angle (left or right, or left and right).



- a = depending on
- pull handle depth
- b = 65 mm for HSW EASY Safe 80 mm for HSW-R

B1 = Panel width – 130 mm T1 = T3 × 1,414 mm



Stacking in a niche, outer stacking leg at 95° angle for small number of panels (up to 6) (left or right, or left and right).

- a = depending on
- pull handle depth b = 65 mm for HSW EASY Safe 80 mm for HSW-R
- B1 = Panel width 130 mm -([T1 - 80]×0.087)

Stacking legs at 90° angle for large number of panels (left or right, or left and right).



- a = depending on
- pull handle depth b = 65 mm for HSW EASY Safe 80 mm for HSW-R
- B1 = Panel width 134 mm

The right solution – HSW FLEX Therm



Existing structures and non-standard designs often require unusual solutions, particularly when it comes to configuring the parking area.

HSW FLEX Therm systems can be combined with stacking tracks of various configurations. The single-panel stack can be parked either parallel or square to the frontage, in a visible area or concealed behind columns or similar. The panels may also be parked in a line, either behind a wall or in a niche.

The parking solutions below show by way of example how such arrangements may be designed to be openly visible or concealed.

Please note during your own planning and design work that large systems with many individual panels will inevitably require a correspondingly generous amount of parking/stacking space.

Parking in a box or niche

With no offset hung end panel, single-sided opening (left or right or left and right).



Parking with a bypass stacking track

Without offset hung end panel, single-sided opening, stacking behind a protruding wall / fixed side panel (left or right or left and right).





Parking behind a offset hung end panel

Single-action, as a possible access point (left or right or left and right).



Parallel parking behind an offset hung end panel As a possible access point.

Outer stacking leg at an angle of 95° (left or right and left and right).



Standard stacking track

With offset hung end panel, single-action, as a possible through-passage panel (left or right or left and right).



Space for your notes

Simple, secure and removable connections

Plug connection of tracks and modules

To provide fast, easy and flexible installation of the track rail sections and the modules it is a considerable advantage when all parts are delivered unwelded. The special HSW track rail design with two parallel channels at the top (suitable for M 10 screws) simplifies the work on site.

- The single track rail sections and modules are connected to each other by special clamp inserts fitted in the provided channels, delivering secure connection.
- If necessary even adjustment cuts of track sections can be done on site.
- In the lower part of the track rails additional pins provide smooth and even passage for the roller carriers.
- Even the stacking construction is fitted together and connected to the frontage track rail in the same way.
- As an option parts of the stacking construction can be delivered pre-mounted.
- The segmentation is realized by mitre cuts and welded connections within single track rail sections as supplied condition. On site the adjacent track rail section then can easily be fitted in a straight line by clamp inserts and pins.

Improved insulation of the sliding track HSW FLEX Therm

The insulation of the HSW FLEX Therm sliding track can be improved by attaching an additional plastic profile on the weather side so that the formation of condensation is noticeably reduced.



Single track rail section



Stacking construction

Segmented track rail section





Flexible and stable

Horizontal sliding walls can be constructed in a wide range of different configurations to suit the site of installation, prevailing structural conditions and the planning concept. With dormakaba HSW systems, a variety of designs can be implemented with ease. Straight and segmented track rails can be combined to produce virtually any serpentine shape required. The track rails in the form of hollow sections combine all the virtues of light weight, stability and torsional stiffness. And when combined with the HSW substructure, installation becomes even easier. Flexibility and stability mean that even unusual system configurations can be implemented without problem to give maximum functional reliability.

Straight track rail



Track rail at stacking area

Track rail at assembly frontage





90° T-piece



135° T-piece



Straight track rail

For a straight-line system configuration, a drill hole interval of 300 mm in the track rail is sufficient, while the stacking area requires an interval of 100 mm. Where the track assumes an angle of 161 – 179°, the track rail is mitred, while at angles between 90 and 160°, a segment is incorporated. The standard modules available are indicated in the adjacent illustrations.

90° L-piece





Module 07/09 for 90°/95° angle









Module 04/05 90° angle left/right



Segmented track rail

With the segmented track rail, it is possible to implement the dormakaba HSW as a polygonal partition or frontage. In so doing, it is essential to note the following requirements:

- The panel width and segment chord length must be properly coordinated;
- Segment panels are provided at the bottom with locks or face-mounted floor bolts
- It is important to ensure that the opening sweep of single-action and doubleaction panels does not give rise to collisions.

Curved track rail

The curved track rail is offered for installing a rounded track rail of a dormakaba HSW system. The following technical conditions are applicable here:

- Only sliding panels can be used in the curved track rail area
- The curved track rail must be foregone in the stacking area
- A top locking device cannot be installed. Each panel gets two front locking devices
- In case of installation in the stacking area, a 100 mm long piece of straight track rail is required
- Tails of the curved installation can be designed with standard modules
- Min. bending radius is 3,500 mm (smaller radius upon request)
- If elliptic system configurations are required, it is decided in each individual case. Drawings are required for this
- Curve start and curve end are principally performed with a 90° saw cut (rotary saw cut)



Maximum length of a single arc section = 2600mm (measured outer edge or track)

No	Unit	Description
01	1	Bended track
02	5	Adapter plate for substructure (84021200099)
03	10	ISO 4017-M10x20- 8.8 verz.
04	10	ISO 7089-10-200 HV/St. verz.
05	10	ISO 4035-M10-05 verz.



Space for your notes

Substructure – the system

Solutions

Installing a horizontal sliding wall system invariably requires a certain set of structural conditions to be established. The system will need to be precisely aligned vertically – usually sub-sequent to installation – as well as being exactly configured and securely located.

Because dormakaba HSW systems do not use floorlevel supports and floor tracks, the system requirements and all their technical properties must be taken into account when designing the substructure and its incorporation within the ceiling. This often very costly planning process is normally undertaken by the fabricator as the installation company, and alongside the calculations there are many individual structural and installation procedures involved.

The new dormakaba substructure system is of modular construction and is designed to significantly reduce on-site installation cost and time. This concept also offers the particular flexibility required to overcome structural constraints, such as the presence of air conditioning shafts or pre-existing electrical systems in the ceiling.

System design

The dormakaba substructure consists primarily of the following components: substructure profile with modules for branching to the stacking area, threaded rods for suspension of the profile(s), and standard square section tubes with appropriate fixings and ceiling brackets for bracing and stiffening the construction.



Safety and flexibility

The dormakaba substructure has been developed on the basis of extensive practical experience of the requirements involved in this kind of system. Consequently, the profile incorporates features that greatly facilitate installation and ensure that pre-existing structural factors can be accommodated with maximum flexibility.

Various bolting channels run the whole length of the profile, allowing bolts to be inserted easily at any location within the system configuration. So there is no need for pre-drilling and thread cutting in order to mount the track rails onto the substructure.

Bolted connections can be made directly through the lower bolting channel. The problem of removing drillings and filings from the track rails is thus also a thing of the past.

Bolting channels on both sides of the profile can be used e.g. for fixing the brackets needed for attaching the ceiling retention elements. In addition, centering grooves on all main profile surfaces facilitate overhead drilling, e.g. for accessory attachment. Welding brackets designed for bolting onto the profile provide another option, allowing the dormakaba system to be utilised for additional customer-specific applications.

The substructure profile is suspended from threaded rods. These are first placed in the U-recesses using fixing plates that lock into the upper bolting channel. Each pair of threaded rods is regarded as constituting one suspension point. Here again the system remains exceptionally flexible: the staggered U-recesses positioned at intervals of 100 mm enhance the ability of the system to accommodate structural constraints. Depending on the weight of the system and the permitted deflection, it is possible to span a distance of up to 2,100 mm between two suspension points. The centre channel can be fitted with two flat aluminium bars to provide additional rigidity in the area of butt joints between profiles In this case it is possible to dispense with the dual suspension arrangement – with one suspension point either side of the joint – which is otherwise necessary. So existing building installations of all types can be effectively bypassed.

Once the substructure has been installed, the HSW system is vertically aligned and fixed directly via the threaded rods. Subsequent adjustments, e.g. after the building has settled into its foundations, can also be carried out by the same means.

The standard square section tubes offer extra safety, especially where the sliding panels deviate from a straight line. Panel sway must be effectively countered by the structural design adopted at such locations.

Diagonal struts that counteract the pressure load stabilise the system in the area of the stacked panels. The telescopic square section tubes are connected as additional bracing elements (struts) to the substructure by a pivot fixing. The struts are bolted to the ceiling using the appropriate angle brackets.

The modular design of the dormakaba substructure is precisely matched to the modules of the dormakaba HSW track rail. The structural elements can be mixed and matched as desired with the result that a small number of component types is sufficient to create a complex, flexible system that conforms fully to all safety requirements.

A drawing of the required sub-structure can be requested from dormakaba to supplement the HSW system drawing always supplied with the quotation.



The forces (shown by arrows) that occur during opening and closing of the sliding wall system must be absorbed by appropriately located bracing elements.

Planning details

Calculating the suspension intervals



With a maximum load (panel weight) of 150 kg/m and a permitted deflection of the substructure with track rail of 2 mm, the interval between two suspension points must be no greater than 1,450 mm. The table below shows other values for different loads.

In order to prevent system sway, every second suspension point must be reinforced by a strut. The substructure profile ends (travel path and stacking area) should ideally be directly connected to the masonry or to existing structural members.

Illustrative example of load values



F = Force

Force example:

AM = Distance dimension

The distance dimension of

108.98 kg/m = 1,700 mm

F	АМ
60 kg/m	2,000 mm
75 kg/m	1,900 mm
105 kg/m	1,700 mm
135 kg/m	1,600 mm
150 kg/m	1,400 mm

HSW EASY Safe characteristic values

Formula for calculating the: Glazing height = system height - 309 mm = panel height - 193 mm Glazing weight Glass 10 mm = 25.00 kg/m² Glass 12 mm = 30.00 kg/m² Door rail weight Aluminium = 12.00 kg/m Brass = 14.50 kg/m Stainl. steel = 13.25 kg/m

Example system

HSW EASY Safe system in stainless steel System height 3.5 m Glazing thickness 12 mm

Calculation

Load

- = glazing weight x glazing height + door track weight
- $= 30 \text{ kg/m}^2 \times (3.5 \text{ m} 0.309 \text{ m})$
- + 13,25 kg/m
- = 30 kg/m² × 3.191 m
- + 13.25 kg/m
- = 108.98 kg/m

Stacking area design

View from below



The construction of the stacking area, assembled from substructure and track rail modules, provides a good illustration of how this welldesigned system can be utilised. The individual components are coordinated to ensure safe integration. Joints in the substructure are offset to those in the track rails so that individual joints coincide with continuous material in all cases.

Provided that the track rails are adequately bolted to the substructure, gaps of up to 40 cm measured from one suspension point to the next are permitted in the substructure.

View from below



View from above



Joints reinforced by central steel bar only require one local suspension point.

Variants of connection/details

Substructure profile





Component parts, accessories





Space for your notes

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Panel Systems

HSW EASY Safe Security in use and elegance in design

Outstanding strengths of the HSW EASY Safe system:

- The optional safe use of laminated safety glass increases security and also widens the creative possibilities.
- A visible status display with a clear colour system indicates the status of the top locking device on the single-action sliding panel or double-action sliding panel. This gives a better overview and even more security.
- Double brush seals in the top and bottom door rails, successfully minimize drafts.


Intelligent solutions for more convenience and security HSW EASY Safe – More clarity and easier locking thanks to status display

Locking status at a glance

Security and convenience in one: The top door locking device clearly shows the locking status of the door panel on the status display. This gives the user a greater feeling of reassurance and security.

Less draft for even greater comfort

Innovative double brush seals in the top and optional in the bottom door rails improve door closure and noticeably minimize the amount of draft. The vertical brush seals, which are also optionally available, can be fitted up to the full height of the panel and give additional draft proofing – for noticeably greater comfort.





Simple locking with hand or foot Multilock – Three locking possibilities in one component

The new Multilock system opens up a new world of simplicity

The Multilock combines three locking possibilities in one compact element and can be installed effortlessly in the bottom door rail.







Easy foot-operated opening and closing





Simplicity with clear benefits:

The 3-in-1 Multilock can be offered in three options for secure locking: side locking device, front locking device or cylinder lock.

 Maximum convenience with foot-operated locking options for the face-mounted floor bolt – simple and hassle-free.

Innovative hold for more security

VSG – Improved security with the optional use of laminated safety glass



Creative freedom combined with security

Thanks to the innovative Clamp&Glue bonding technology, the HSW EASY Safe system allows the use of highly secure laminated safety glass. With the insertion of inlays within the laminated safety glass, the horizontal sliding wall can be used as a custom design element, thus setting new standards in interior design.

Hassle-free installation thanks to the new Clamp&Glue technology

The fixing process with HSW EASY Safe is incredibly simple. The special adhesive is fed through an injection hole in the two upper door rail halves to the adhesive channel where it spreads out evenly. After a drying time of just 15 minutes the panel can then be installed.

Attractive added value:

- Laminated safety glass makes the application of HSW EASY Safe not only attractive, but also more secure.
- The innovative Clamp&Glue technology enables easy bonding and also ensures that fittings and LSG (from TSG) are held firmly in place.
- Special inserts in the laminated safety glass offer huge design freedom as well as additional functions such as protection from the sun, noise reduction and privacy screening.

The inlay can be gradually pressed out using clamping force. The bonding of the glass with the fitting prevents the fitting from slipping out of the glass due to possible decrease in clamping force.

HSW FLEX Therm Aesthetic elegance offering reliable protection against wind and weather

Whether it's for a shop window or a business entrance, the new horizontal glass sliding wall system HSW FLEX Therm impresses with its clear, uniform and straightforward design lines.

Yet the internal values are also compelling. In applications on the outside of buildings, the outstanding insulation properties of the profile come to the fore, complying with ENEV as from 2016. Added to this is the fact that the system will match virtually any architectural style, as well as offering a wide range of configuration possibilities. Your benefit: A flexible sliding wall system that is easy to design, with excellent form, function and convenience attributes integrated right from the start.



High security, rectilinear design

A new frame system has been created specifically for the HSW FLEX Therm. Its clear, straightforward design lines, its detailed, sophisticated functionality and the high level of safety and security it offers are benefits that cannot be ignored. Frames without miter cuts ensure uniformity in visual appearance, especially with the functional elements such as the locking mechanisms, multi-point locking systems and door closers concealed within the profiles.

Optimized thermal separation

The HSW FLEX Therm frame profile offers 40% better insulation compared to the predecessor model. Optimized with double rubber lip and brush seals on the inside and outside and with air-filled cavities, its profiles ensure improved thermal separation – from the finished floor right up to the overhead track.





Thermal protection

Heat transition coefficient to EN ISO 10077-1, -2 UD[W/m2K] = 1.8

Impact load

Grade 5 to EN 13049/16361

Wind resistance:

Grade A3 to EN 12211/12210

Air permeability:

Grade 2 to EN 1026/12207

Durability

Grade 3 to EN 1527, corresponding to 25,000 cycles for suspended sliding doors > 100 kg. Grade 3 to EN 1191, corresponding to 20,000 cycles for the door function of single-action sliding panels and offset hung end panels

Sound insulation index

Glazing thickness: 44.4 mm Evaluated sound insulation index: Rw = 31.4 dB Standard: Airborne sound insulation of a movable glass partition wall acc. to DIN EN ISO 10140

HSW – Transparent versatility

Horizontal sliding walls are used in a wide range of different project types, and for both internal and external applications. These partitions can be flexibly designed to suit the site of installation, structural conditions and design concept. They can satisfy a broad spectrum of requirements in relation to styling, material and finish or colour, and can also be equipped with individually fabricated panels to perform special functions. Additional utilisation of the dormakaba substructure allows a simple, reliable and secure installation of the entire HSW system.

HSW – Horizontal Sliding Walls

Panels slide individually – stacking track required





HSW EASY Safe Glass assembly with top and bottom door rail

HSW Horizontal Sliding Walls, fully framed

Panels slide individually – stacking track required





HSW-R

Fully framed for toughened safety glass, laminated safety glass or double glazing

Product overview

HSW EASY Safe

With the HSW Easy system, the panels create a continuous transparent face completely without side frame elements. Under certain circumstances, an additional wind deflector can, however, be provided at the glass edges as a preferred option.

FSW EASY Safe

The FSW EASY Safe folding sliding wall system offers both high transparency and enhanced user safety. Door rails top and bottom and roller carriers at the end of every second panel make it ideal for inline configurations. Visually compatibility with HSW EASY Safe panels means that both systems can be effectively combined in the access frontages of a building.

HSW-R

The HSW-R sliding glass panel frontage is suitable wherever likely to be exposed to high wind loads – for example, for shop windows and store entrances located in the façade/on the outside of the building. Aluminium alloy frames clamp the glass on all sides, with lateral rubber lip seals and double brush seals top and bottom providing added weather protection.

HSW FLEX Therm

The horizontal sliding wall for reliable and secure protection from wind and weather – flexible and energyefficient. The straightforward lock bar system makes it easy to change the function of the panel with just one hand. All functional elements are invisibly integrated in the new frame system for added aesthetic allure.

Use and features	HSW EASY Safe	FSW EASY Safe	HSW-R	HSW FLEX Therm
Shop fronts	•	•	•	•
Shop fronts with climate barrier function			0	•
Internal room divider	•	•	0	0
Glass thicknesses (mm) Toughened safety glass (TSG)	10/12/13/ 15/17/19	10/12/13/ 15/17/19		0
Glass thicknesses (mm) Laminated safety glass (comprising TSG sheets)	10,8/12,8/13,5/ 15/17/19	10,8/12,8/13,5/ 15/17/19	8-241)	8 10-49
Assembly height (max. mm)	4.000	3.000	3.000	3.500
Panel width (max. mm)	1.250	1.100	1.100	1.250
Panel weight (max. kg)	150	80	100	150
Access panels (pivoting type)				
– Pivoting end panel, single-action	•	•	•	
- Pivoting end panel, double-action	•	•	•	
– Offset hung end panel	•	•	•	•
– Single-action sliding panel	•	•	•	•
– Double-action sliding panel	•	•	•	
– Invisibly integrated door closer ITS 96	•		•	•

• Standard O Optional * Weight dependent on panel fittings ¹⁾ also usable for double glazing units.

Panel design

With the features that the different panel types have in common **HSW EASY Safe** satisfies all the requirements placed on transparent façades in the typical applications that arise.

- All panel types are provided with a bottom and a top door rail, which hold the glass safely.
- HSW assembly only with sliding panels, pivoting end panels and fixed panels can do without an additional carrier profile. For single- and double-action sliding panels the carrier profile is indispensable. When an assembly incorporates singleor double-action sliding panels then the carrier profile is provided for all panel types.
- The glass panes can have the following glass thicknesses: 10 mm, 10.8 mm, 12 mm, 12.8 mm, 13.5 mm, 15 mm, 17 mm and 19 mm. (tolerance range +/- 0.5 mm)
- When using laminated safety glass the Clamp&Glue technology provides secure hold without the need for glass drilling.
- The top panel profile (either door rail or carrier profile) incorporates a double brush seal as standard. As an option the bottom door rails can have double brush seals as well.
- Excellent draft protection is reached when additional sealing profiles with matching double brushes are used at the vertical glass edges as well.

HSW EASY Safe is certified to have reached the following tests:

- Wind load (Frame bending): EN 12210 Class 1
- Endurance strength: DIN EN 1527 Class 3 and DIN EN 1191 Class 3
- Side impact: DIN EN 13049 Class 5 (highest class)
- Corrosion: DIN EN 1670 Class 4
- EPD (Environmental Product Declaration): ISO 14040

Sliding panel

without carrier profile





Sliding panel with carrier profile





HSW-R All-round frame



The all-round frames of the individual panels of an HSW-R system offer not only high stability but also effective protection against external influences, with the option of either laminated safety glass (LSG), toughened safety glass (TSG) or double glazing units for the glazing.

HSW FLEX Therm



HSW EASY Safe – Panel functions



A presentation of the offset hung end panel and the slding folding panel is available on pages 61 and 62

	Pivoting end panel, single- or double- action Non-sliding. Single-action panel with floor pivot and TS 92/TS 73 door closer. Double-action panel with floor pivot or BTS floor spring.	Sliding panel Basic movable panel without additional function.	Single-action sliding panel* Single-action sliding panel with TS 92 cam-action door closer, operational when frontage closed. (Alterna- tively with ITS 96.)	Double-action sliding panel* With ITS 96 door closer, operational when frontage closed.	Fixed panel Fixed panel design matching the de- sign of the sliding panels in the as- sembly.
Max. panel height	4,000 mm	4,000 mm	3,600 mm	3,600 mm	4,000 mm
Max. panel width	1,250 mm	1,250 mm	1,250 mm (1,100 mm)	1,100 mm	1,250 mm
Max. panel weight	150 kg	150 kg	120 kg**	120 kg**	150 kg

The individual panels can also be of differing widths. The largest width should not exceed max. 115% of the smallest width.

*For these panel types please consider our notes on portal systems on page 125. ****Note:** The maximum permissible weight relates to the complete door assembly, including handles.

Door rails and general details

Bottom locking devices

All depicted combinations are also available as mirror arrangements.



General parts and measurements



Irrespective of the function of the individual panels, an HSW EASY Safe system comprises the following basic components:

01

Two parallel channels suitable for M 10 screws and clamp connectors

02 Track rail

03

Roller carrier

04

Double brush seals on top (bottom layout is optional)

05

Carrier profile

06

Top door rail and (consisting of basic profiles, cover profile and lateral end caps)

07

Rubber seal, bridges the gap between cover profile and glas panel

08

Toughened safety glass or toughened laminated safety glass 10–19 mm (by others)

09

Bottom door rail, both comprising base profiles with cover profiles and end caps

Pivoting end panel

single- or double-action



Pivoting end panel, single- or double-action, with floor pivot Non-moving and always equipped with a locking deadlock and the option for an additional upper locking unit.







Pivoting end panel, single-action

with stop-type end caps top and bottom.

Pivot point variants:

- Floor pivot with round spindle, optional combined with TS 92 overhead door closer*
- BTS 84 for panels up to 100 kg, with optional hold-open at 90° door opening angle
- BTS 80 for panels up to 150 kg with adjustable hold-open device

Pivoting end panel, double-action

Pivot point variants:

- Floor pivot with round spindle
- BTS 84 for panels up to 100 kg, with optional hold-open at 90° door opening angle
- BTS 80 for panels up to 150 kg with adjustable hold-open device

Pivoting end panel, single- or double-action, with floor spring



Mounting dimensions (in mm)				
	BTS 84	BTS 80		
а	108	78		
b	40	60		
С	306	341		
d	51-58	51-57		

* Data and features TS 92 see page 55.

Pivoting end panel

single- or double-action, with additional upper locking bolt



Additional upper locking bolt



New drill hole of pattern

End cap with stop (optional)





Data and features			BTS 80			BTS 84	
Spring strength (EN)		3	4	6	2	3	4
Standard and external doors	≤850 mm				•		
	≤950 mm	•				•	
	≤1,100 mm		•				٠
	≤1,400 mm			•			
Closing speed adjustable by valve	130°-0°				•	•	•
	130°-20°				•	•	•
	175°-0°	•	•	•			
Delayed action (adjustable by valve) (selectable alternative to the hold-open feature)		•	•	•			
Max leaf weight (kg)		300	300	300	100	100	100
Hold open	90°				•	•	•
	adjustable	•	•	•			
Dimension	Length	341	341	341	306	306	306
	Overall width	78	78	78	108	108	108
	Height	60	60	60	40	40	40
Door closer tested to EN 1154		•	•	•	•	•	•

Sliding panel

Basic movable panel without additional function.



The sliding panels are movable. Once in their closed position, they are locked.The locking components provided in the bottom door rail can be face-mounted slide bolts, end-mounted slide bolts, end pin bolts or deadlocks.

The structure of the bottom door rail applies also to single-action/double-action sliding panel.



Bottom door rail with face-mounted slide bolt



Machining of cover profile (face-mounted slide bolt)







Bottom door rail with face-mounted slide bolt on both sides



Machining of cover profile (face-mounted slide bolt)



Single-action sliding panel

with dormakaba TS 92 cam-action door closer



This panel type is installed where doors only need to be opened in one direction, either inward or outward. In both cases, the cam-action door closer is fixed to the internal side of the assembly. If you are considering this panel type, please note our advisories relating to portal systems on page 125.





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Standard assembly

top: Pivot bearing, TS 92 with slide channel, one locking device. bottom: Face-mounted slide bolt as pivot (released for sliding function),

deadlock.

Optional equipment

- top: Additional locking device (upper locking unit) to secure the panel in the area of a reshuffle bypass or for more stability in closed position (Illustration see page 44). bottom: Second face mounted
 - slide bolt instead of deadlock.

Data and features: dormakaba TS 92	
Closing strength/size	EN 2-4
Closing speed and latching action independently	180°-15°
adjustable at two separate valves	15°-0°
Non-handed	yes
Cushioned stay limit adjustment	80°-120°
Hold-open adjustment	75°-150°
Weight	1.9 kg
Length	281 mm
Overall depth	47 mm
Height	65 mm

Single-action sliding panel

with integrated door closer dormakaba ITS 96, 2-4



This panel variant is used where the door element is required to only open in one direction, either inward or outward. If you are considering this panel type, please note our advisories relating to portal systems on page 125.





Standard assembly

- top: Pivot bearing, ITS 96 with slide channel, one locking device.
- bottom: Face-mounted slide bolt as pivot (released for sliding function), deadlock.

Optional equipment

top: Additional locking device (upper locking bolt) to secure the panel in the area of a reshuffle bypass or for more stability in closed position. bottom: Second face mounted slide bolt instead of deadlock.

Data and features: ITS 96, Gr. 2–4	
Closing strength/size	EN 2-4
Max. panel width	≤1,100 mm
Max. panel weight	≤120 kg
Closing strength continuously variable	Adjusting screw
Closing speed continuously variable	by valve
latching speed is adjustable from 15°-0°	by valve
Cushioned stay limit mechanically variable	yes
Max. opening angle	ca. 120°
Hold-open variable	yes (door stop necessary)
Weight	1.3 kg
Length	277 mm
Overall depth	32 mm
Height	42 mm
Door closer tested according to EN 1154	yes

Double-action sliding panel

Being virtually invisible, its presence has no effect on the overall appearance of the partition. In its standard form, ITS 96 is provided with a 90° hold-open. If you are considering this panel type, please note our advisories relating to portal systems on page 125.





Hole of pattern upper locking unit

¹ / ₁₀₆ 105 ↓ ¹ / ₁₀₅ ↓ ¹ / ₁₀₅ ↓	C7	
105 ◆ M6	м 22 <u>1</u> <u>М6</u> 105	
	M6	•

Upper locking unit



Standard assembly

top: Pivot bearing, ITS 96 with slide channel, one locking device bottom: Face-mounted slide bolt as pivot (released for sliding function), deadlock

Optional equipment

- top: Additional locking device (upper locking unit) to secure the panel in the area of a reshuffle bypass or for more stability in closed position.
- bottom: Second face mounted slide bolt instead of deadlock

with integrated door closer dormakaba ITS 96, 2-4.





Hole of pattern additional upper lock



Additional upper lock





Additional upper lock

The additional upper locking bolt is used for single-action or double-action sliding panels as an optional addition to the upper locking unit at the other end of the door. In some cases it is recommended for additional stabilization of the carrier profile.

Fixed panel



Non-moving side panel, independent of the rest of the system. The fixed side panels are of the same basic design as the sliding panels and continue the appearance of the movable part of the frontage without any optical break. If required, the retaining devices at the top can be replaced by a carrier system to convert such a panel into a sliding panel.

Standard assembly

top: Retaining devices fixed to the track rail. bottom: Spacer profile fixed to the floor; access for fixed end pin of the adjacent panel.





Offset hung end panel



Offset hung end panel

Single action panel, non-sliding, operates independently of the rest of the system. The single action door with offset pivoting arm assembly can be swung around 180°, so leaving the entire operating zone free. A bottom deadlock secures the closed leaf.



Position 90° and 180° opening angle at wall position 180° opening angle at fixed panel



180° opening angle Offset hung end panel at fixed panel



Max. panel weight 150 kg

Pivoting end panel views as seen from below

Sliding / folding panel



Hinged, with lock and slide bolt at the bottom, latching bolts top and bottom for fixing the final folding panel to the slide panel.

Max. panel sizes and weights

Max. panel width 2 x 1,000 mm Max. system height 3,000 mm Max. panel weight 2 x 70 kg



Magnetic door holders top and bottom





X = 110,5 mm (usage end mounted locking bolt) X = 280 mm (usage lock module)



End mounted slide bolt







Space for your notes

FSW EASY Safe – Types and functions

FSW toughened glass folding walls featuring door rails top and bottom and a roller carrier at the end of each second panel.

FSW folding sliding walls are suitable for linear configurations. With an FSW EASY Safe assembly, you can have either two or four panels (a basic panel and 1 or 3 folding panels) linked together. Where two counterrunning (bi-parting) assemblies are installed, it is possible to create frontages with up to eight FSW panels. As the panels are visually compatible with the HSW EASY Safe pivoting/sliding panels, and both systems use the same track design, shop/store frontages or similar transparent partition systems can be made up of these two different types, with the FSW assembly at the free end or supplemented by a single- or double-action HSW end panel (types 4+5). FSW systems can be designed for either opening direction.

Example: Design with 2 x 2 panels (type 1c), bi-parting

01

Track rail

02 Upper locking bolt

03

Roller carrier

04

Face mounted slide bolt

05

Upper pivot bearing of the basic panel

06

Basic panel

07 Folding panel



Max. panel sizes and weights	Basic panel with top pivot and floor pivot	Folding panel with roller carrier and lock bolts top and bottom	Folding panel with roller carrier and lock bolts top and bottom	Basic panel with roller carrier and lock bolts top and bottom
Max. assembly height	3000 mm	3000 mm	3000 mm	3000 mm
Max. panel width	1100 mm	1100 mm	1100 mm	1100 mm
Max. panel weight	80 kg	80 kg	80 kg	80 kg

The standard thicknesses are 10/12 mm toughened safety glass (TSG).

Other thicknesses and glazing with laminated safety glass (LSG) available on request.

System components

Basic panel







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01 Contact plate

02 Roller carrier with stop device

The FSW EASY Safe assembly consists of the following basic components:

01

Track rail (fixed to the substructure)

02 Upper pivot bearing

03 Roller carrier

04 Upper locking bolt

ipper locking

05 Carrier profile

Design without a carrier profile also available – see drawing below

06 Folding hinge

07

Top door rail (consisting of basic profile and covers with lip seal)

08

Bottom door rail (consisting of basic profile and covers with lip seal)

09

Toughened safety glass, or LSG of TSG (when using LSG we recommend the Clamp&Glue technology)

10

Floor pivot bearing

11

Face mounted slide bolt

Layout variants



3c 8 panels (4 panels left and 4 panels right)

* Minimum structural clearance (e.g. balustrade, railings etc.)

min.120



* Minimum structural clearance (e.g. balustrade, railings etc.)

01

02 Basic panel

03 Track rail

04

06

Pivot bearing top

and bottom

Roller carrier

Folding hinge

05 + 07 Flap panel unit

FSW EASY Safe C – Types and functions

Toughened glass folding partitions with door rails top and bottom roller carrier at panel centre

The FSW EASY Safe C is adaptable to large spans. An assembly comprises a basic panel, up to 6 folding centre panels and a folding pivoting panel which, when the system is closed, can be used for access (alternatively, a non-attached single or double action end panel can be used). The number of panels therefore ranges between 3 and 8. As the roller carriers are centrally arranged on the centre panels, the basic panel must be designed as a half-width unit (plus pivot offset of 65 mm). The pivoting access panel can be of either basic panel or centre panel width. The slightly offset hinges mean that the panels can be folded into particularly compact stacks, with high stability also ensured. Available as standard for glass thicknesses of 10 or 12 mm. Other glass thicknesses and models with laminated safety glass also available on request. Please indicate your requirements when ordering!



Example: Partition type C2 (symmetrical with narrow pivoting access panel)

Max. panel sizes and weights	Basic panel with top pivot and floor pivot	Centre panel with roller carrier and lock bolts top and bottom	Centre panel with roller carrier and lock bolts top and bottom	Flap panel unit
Max. assembly height	3000 mm	3000 mm	3000 mm	3000 mm
Max. panel width	½ panel width + 65mm	1100 mm	1100 mm	1100 mm
Max. panel weight	80 kg	80 kg	80 kg	80 kg

The standard thicknesses are 10/12 mm toughened safety glass (TSG).

Other thicknesses and glazing with laminated safety glass (LSG) available on request.

System components

Folding panel with bolt





The FSW EASY Safe C system consists of the following basic components:

01

Track rail (fixed to the substructure)

02 Roller carrier

03

Carrier profile Top door rail also available in a design without the carrier profile – see drawing below.

04

Bottom door rail consisting of basic profile and covers with lip seal.

05

Magnetic holder top

06

Toughened safety glass, or LSG of TSG (when using LSG we recommend the Clamp&Glue technology)

07

Magnetic holder bottom

Bottom hinge



End mounted slide bolt at the bottom between both panels of the flap panel unit



Layout variants





12/18

FSW EASY Safe Cplus – Types and functions

Access with convenience – the plus you get with the FSW EASY Safe Cplus

Based on the design of the FSW EASY Safe Cplus, the model variant FSW EASY Safe Cplus offers the possibility of including a flap panel as a fully fledged access door when the system is otherwise closed – with all the automatic closing convenience which the TS 93 G cam-action door closer can offer. The special bottom lock bolt and the top clamp-fitted stop serve to stabilize the first panel of the flap panel unit in this configuration. The top angle stop ensures the correct positioning of the closed flap panel unit. The folding hinges connect both panels of the flap panel unit and offer a larger pivot offset in order to create space for the door closer and pull handles. All the other folding panels are equipped with standard hinges and roller carriers.




3.5 kg

275 mm

53 mm

60 mm

Weight

Length

Height

Installation depth

5.2 kg

285 mm

62 mm

71 mm

HSW-R – Types and functions

Horizontal sliding walls, framed all round for toughened safety glass, laminated safety glass or double glazed units

Resistant to mechanical stress, protect against the influences of the weather, heat loss and drafts thanks to sturdy profile frames with brush seals top and bottom and laterally arranged rubber lip seals. Optionally prepared for single pane toughened safety glass (TSG) or laminated safety glass (LSG), insulating glass/ double glazing or special glass. Frame profiles for 8 to 24 mm. Other glass thicknesses on application.



Max. panel sizes and weights	Pivoting end panel, single- or double- action Non-moving. Pivoting end panel, double-action, with floor bearing and top pivot. Optional with floor spring BTS 80/84. Or as pivoting end panel, single-action, with stop and BTS 80/84 or TS 92/TS 73.	Sliding panel Fixed when frontage closed.	Pivoting end panel, When frontage closed with integrat- ed concealed door closer type ITS 96, Size 3–6; operational. Minimal panel width 870 mm.	Double-action sliding panel* When frontage closed with integrated concealed door closer type ITS 96, Size 3–6; operational. Minimal panel width 870 mm.
Max. system height	3,000 mm	3,000 mm	3,000 mm	3,000 mm
Max. panel width	1,100 mm	1,100 mm	1,100 mm	1,100 mm
Max. panel weight	100 kg	100 kg	100 kg	100 kg

The individual panels can also be of differing widths. The largest width should not exceed max. 115% of the smallest width.

 * For these panel types please consider our notes on portal systems on page 125.

System design



Irrespective of the function of the individual panels, an HSW-R system comprises the following components:

01

Installation-efficient dormakaba substructure to accommodate track rail mounting requirements (optional)

02

Track rail (for bolting to the substructure)

03 Carrier

04 Suspension assembly

05 Adapter frame

06 Glazing frame profile, horizontal

07

Glass clamping bar

08

Glazing frame profile, vertical

09

Toughened safety glass, laminated safety glass or double glazing units (by others)

10

Bottom frame profile.

Single/double-action panels



Pivoting end panel, single- or double-action, with floor pivot Non-moving and always equipped with bottom deadbolt with the option of a top bolt or side action deadlock. Single-action or double-action options.





Pivoting end panel, single-action

with stop plates at the top bolt. Assembly types:

- Floor pivot with round spindle
- As above, but with TS 73 or TS 92 overhead door closer
- BTS 84 for panels up to 100 kg, with optional hold-open at 90° door opening angle
- BTS 80 for panels of 100–150 kg, provided with hold-open as standard

Pivoting end panel, doubleaction

Assembly types:

- Floor pivot with round spindle
- BTS 84 for panels up to 100 kg, with optional hold-open at 90° door opening angle
- BTS 80 for panels of 100–150 kg, provided with hold-open as standard

Pivoting end panel, single- or double-action, with floor spring



Mounting dimensions (mm)						
	BTS 80	BTS 84				
а	78	108				
b	60	40				
с	341	306				
d	51-57	51-58				

Pivoting end panel, single-action



with dormakaba TS 73 overhead door closer and additional locking device and door stop

with dormakaba TS 92 overhead door closer and additional locking device



Additional locking device



Data and features	dormakaba TS 73 V	dormakaba TS 92
Closing strength/size	EN 2-4	EN 2-4
Closing strength, variable	via adjusting screw and arm hing	via adjusting screw and arm hinge
Closing speed adjustment	via valve	via valve
Non-handed	•	•
Latching speed adjustment	via arm	via arm
Cushioned stay limit adjustment	75°-180°	80°-120°
Hold-open adjustment	75°–160°	75°-150°
Weight	1.8 kg	1.9 kg
Length	233 mm	281 mm
Overall depth	42.50 mm	47 mm
Height	60 mm	65 mm

Sliding panels and connections



Fixed when partition is closed.

The sliding panels are moving elements. Once in their closed position, they are locked down. The components available for this are provided in the bottom rail in the form of face-mounted floor bolts or deadlocks.



Fixing the panel in the strike plate



Fixing the panel in eccentric bushing



Sliding panel to panel connections

Panel to wall connection



Single-action sliding panel

with integrated dormakaba ITS 96 concealed door closer, size 3–6



This panel type is used where passdoors only need to be opened in one direction. The single-action sliding panel can be configured for either inward or outward opening.

Standard assembly

top: Pivot bearing, ITS 96, size 3–6, one locking device bottom: Face-mounted floor bolt as pivot (released for sliding function)

Optional equipment

- top: Second locking device (for reshuffle bypass stacking)
- bottom: Optional second face-mounted floor bolt or deadlock





- Ø25

Ø8

Locking device





Double-action sliding panel

with integrated dormakaba ITS 96 concealed door closer, size 3–6





Locking device







Double-action sliding panels with ITS 96, size 3–6 door closers are characterised by their exceptional ease of installation and operation. These passdoor panels are generally equipped with a bottom deadlock and top locking device plus a bottom floor bolt operating as the pivot bearing (released for the sliding function).

The ITS 96 does not feature a hold-open function as standard.

For these panel types please consider our notes on portal systems on page 125.

HSW FLEX Therm – Easy to slide, easy to lock with just a flick of the wrist

The quality of a sliding door system is also exemplified by the manual devices that get used on a daily basis – for opening and closing, for locking, and for effortless sliding and parking of the individual panels. With HSW FLEX Therm, switch-over between the pivoting and sliding function is by means of a simple bolt operation.

The HSW FLEX Therm sliding elements are available in widths up to 1,250 mm per panel and for system heights up to 3,500 mm, with a maximum permissible panel weight of 150 kg.



01

All the sliding panels of a system can be parked at any point inside or outside the system frontage. The panels run on proven, low-friction roller carriers that are ideally matched to the track system.

02

The basic elements of each system are the sliding panels whereby the switchover between stationary location and sliding function is performed by means of a simple bolt actuator positioned either at foot height (06) or – as an option – at lock bar height (07).

03

With the single-action sliding panels, it is possible to provide single and double doors at certain points along the configuration. T he switchover from the sliding to the door function is carried out with a simple manual operation of the lock bar (**05**).

04

Fixed panels and offset hung end panels offer same design. Each system can be augmented by any number of stationary elements such as side screens or offset hung end panels as required.



O5 A simple lock bar for switching from the sliding to the door function of single-action sliding panels





End-mounted floor bolts at foot operating height for fixing the sliding panels in their end positions.

Optional flush bolts at handle height for fixing the sliding panels in their end positions.





01 Concealed door closer ITS 96

All the single-action sliding panels are equipped with the ITS96 door closer integrated in the door profile and featuring a mechanical hold-open.



02 Swivel-type steel hook bolts protected against drill and saw attack by an auxiliary bolt.



03 Selector in the door rebate for implementing the door functions in the case of the MULTIBLINDO easy.

Doors with multiple security – and high utility values

Integrated door closers and multi-point locking are invisibly combined in the elegant frame profile.

The MULTIBLINDO classic multi-point locking system comes as standard in the form of a three-point or four-point arrangement, depending on the system height. In the locked condition, swivel-type steel hook bolts with auxiliary bolt secure the door against unauthorized access. The swivel-type bolts of specialty steel are protected against drill and saw attack.

As an option, the doors may also be equipped with the MULTIBLINDO easy multi-point locking system, a further upgrade that offers additional, practical door functions, making it the ideal complementary system for public-access applications. The functions are readily selectable at the locking mechanism, as indicated by the illustration and description below.

Also emergency exits and panic exits are according to DIN standards feasible. The connection of MULTIBLIN-DO Easy Exit lock with the corresponding OGRO handles fulfils the requirements according to DIN EN 179 and the use of the PRO Exit Push bars fulfils the prerequisites according to DIN EN 1125 at the offset hung end panels.

Door functions MULTIBLINDO easy









View from the inside





View from the outside

Selector position 0

Increased security (nighttime mode). The door is secured by the multi-point lock.

Selector position 1 The door can only be opened from the inside.

Selector position 2

Public-access function. The door can be opened from the inside and the outside.

Possible system configurations – as varied as your requirements

Architecture is, by its very nature, versatile and frequently demanding. Whether applied to an existing building or in the form of an unusual system, HSW FLEX Therm will adapt to virtually any spatial requirements and design grids that you wish to impose.

The maximum element width of 1,250 mm and heights up to 3,500 mm make the sliding door system extremely flexible. It should, however, be borne in mind that single-action sliding panels must remain within a maximum height of 3,000 mm and a maximum weight per individual element of 150 kg.

The examples that follow offer a selection of common system configurations, although there are many other options available.



Straight run





Standard profile interlock with double-offset sealing arrangement

System with round segmentation implemented with standard profiles





Standard profile interlock with double-offset sealing arrangement implementable up to an angle of $7^{\rm o}$



System configuration with 90° angles







System configuration with 135° angles







System height

Particular attention must be given to the system height. Adherence to the specified design dimensions must be ensured during installation, e.g. by providing a 1 meter datum in the vicinity of the planned system that the installers are able to use without hindrance.



The system height is always measured from the finished floor level (FFL) to the top edge of the track.

Tolerances

The roller assembly can be adjusted following installation for vertical compensation amounting to +/- 4 mm. The gap width in the horizontal direction can be adjusted by 5 mm (-2 mm / + 3mm) for each sliding panel by means of rubber bumpers.



01 System height

02

Top edge of track = top edge of system

03

Finished floor level = bottom edge of system

04

1-meter datum (local reference dimension)

05

Sufficient water drainage must be provided by others on site



First panel as an offset hung end panel (OHEP)

Non-sliding, e.g. as a side entrance for when the system is closed. For details, see page 22



Panel types and equipment

The various panel types and panel designs can be combined together in one and the same system. The clear and uniform design lines remain constant across the entire system width.

Max. panel width:	1,250 mm
Max. panel height:	3,500 mm
For single-action	
sliding panels:	3,000 mm
Max. panel weight incl. glass:	150 kg
For single-action	
sliding panels:	150 kg
Max. Glass thickness:	49 mm



First panel as a sliding panel for a bypass system Sliding panels as bypass panels with MULTIBLINDO

panels with MULTIBLINDO classic multi-point locking system. For details, see page 19.

Sliding panel (SP)

Sliding panel without additional functions. For details, see page 20.

15g

Single-action sliding panel (SASP)

Sliding panels with door function. Effortless switchover between the sliding and door functions by means of a lock bar. For details, see page 21.

Note: Care must be taken to ensure that no single-action sliding panel is attached to a first panel or is connected to a sliding panel with a bypass stacking track (or at the earliest from position 3).

151

Fixed panel (FP)

Ĩs

Non-sliding panel with the same frame design as that of sliding panels. For details, see page 22.



- 5

Offset hung end panels System termination at parking locations

01 Surface-mounted door closer TS 93 with mechanical hold-open device

02 Lever handle

03 Multi-point locking



Example of a stacking track closed off by an offset hung end panel









The non-sliding offset hung end panel is mounted separately from the rest of the system at the wall abutment profile, either on the inside or the outside. It can be swung open, depending on the connection situation, on 90° to 180° to release the entire panel assembly for sliding in and out. The offset hung end panel can also be used as a side entrance.

Standard design

- MULTIBLINDO classic mortise lock with 3-point locking. From a panel height of 2,500 mm with 4-point locking as a combination of hook and pin locks
- Lever handle (for details, see page 119)

Dimensions

- Panel width of 400 1,250 mm
- Panel height of 2,000 3,500 mm
- Panel height of 150 kg
- Glass thickness 8 mm, 10 49 mm

Optional equipment

- Surface-mounted door closer TS 93 with mechanical hold-open
- Pull handles and push bars (for details, see page 110)
- MULTIBLINDO easy mortise lock with selectable automatic locking action and practical door functions (for details, see page 118). Suitable for both knob or pull handle outside and lever handle inside.

Additional equipment:

 Mortise lock MUTLIBLINDO easy Exit with emergency or panic exit approval

Sliding panels as bypass panels All panels concealed

in a parking niche

04 MULTIBLINDO classic Multi point locking system



Example of parking situations with bypass panels







If no panels are to be visible when the frontage is open, a bypass arrangement can be provided in the track to link the frontage to the parking area. The first panel (sliding panel) is opened and closed using the multipoint locking system engaging in the wall abutment profile. The panels that make up the system may, for example, be parked in a niche or along a wall.

Standard design

- MULTIBLINDO classic mortise lock with 3-point locking. From a panel height of 2,500 mm with 4-point locking as a combination of hook and pin locks
- 2 x Manet door knobs, single-sided inward opening

Dimensions

- Panel width of 400 1,250 mm
- Panel height of 2,000 3,500 mm
- Panel weight incl. glass 150 kg
- Glass thickness 8 mm, 10 49 mm

Sliding panels Super-easy to operate

Α

Flush bolt at handle height (approx. 900 mm) for securing the sliding panels at their end positions.

в

End-mounted floor bolt at foot operating height for fixing the sliding panels in their end positions.

In the closed condition, the sliding panels are held in position by locks engaging in floor keeps. The switchover between stationary and sliding merely requires operation of the bolts in the form of either the flush type (**A**) or the end-mounted type (**B**).

Standard design

 Locking by means of end-mounted floor bolts which are foot operated, or by tilting-type flush bolts at handle height

Dimensions

- Panel width of 400 1,250 mm
- Panel height of 2,000 3,500 mm
- Panel weight incl. glass 150 kg
- Glass thickness 8 mm, 10 49 mm











The profile flanges may point inwards or outwards

Panel Systems

HSW FLEX Therm

Single-action sliding panels Sliding doors released with flick of the wrist

С

Unsichtbarer Türschließer ITS 96 im Türprofil integriert.

D

Drehriegel zum Wechsel von beweglicher Schiebefunktion zu fixiertem Flügel mit Türfunktion.

Single-action sliding panels may be designed as either single or double doors. If they are double doors, it has to be remembered that these have to be designed with alternate handings. The switchover from sliding to door function requires just a quick operation of the lock bar.

Standard design

- MULTIBLINDO classic mortise lock with 3-point locking. From a panel height of 2,500 mm with 4-point locking as a combination of hook and pin locks
- Lever handle
- Integrated door closer ITS 96 EN 3-6 with mechanical hold-open, barrier-free to DIN 18040, easy opening in accordance with DIN SPEC 1104, adjustable closing force, closing speed and latching action
- Lock bar operation at handle height

Dimensions

- Panel width of 950 1,250 mm
- Panel height of 2,000 3,000 mm
- Panel weight incl. glass 150 kg
- Glass thickness 8 mm, 10 49 mm

Optional equipment

• Pull handle

 MULTIBLINDO easy mortise lock with selectable automatic locking action and three practical door functions (for details, see page 119). Suitable for use of knob or pull handle outside and lever handle inside.

Note: The hardware sets for the various applications can be found in the HSW price list.











System termination with wall abutment profile and fixed side screen







Wall abutment profile

The HSW FLEX Therm locks onto a wall abutment profile, at either end of the system. On the parking area side, this is connected to the offset hung end panel or contained in the wall abutment for bypass stacking.

The profile flange can be mounted both on the inside and the outside.

Fixed side screen as the last panel

A fixed side screen can be provided in any size with the same visual appearance as the sliding panels. Instead of the bottom brush seals, a base profile is used. The fixed panel is connected to the wall via the wall abutment profile. Fixed side screens can also be combined with an offset hung end panel.

Frame weight tables

Any type of glass can be used. The glass thickness of 8 mm up to and including 49 mm can be used. Care must be taken to ensure that the total weight of the panels does not exceed 150 kg. The total weight includes the frame weight from these tables, the weight of the glass and of the controls or handle bars.

Weights for offset hung end panels, sliding panels and fixed panels without glass, without accessories in kg.

		400	450	500	550	800	050	700	750	800	850	900	950	1.000	1.050	1.100	1.150	1.200	1.250
	2.000	16,7	17	17,4	17,9	18,3	18,7	19,1	19,5	19,9	20,3	20,7	21,1	21,5	21,9	22,3	22,7	23,1	23,5
	2.100	17,4	17,75	18,2	18,6	19	19,4	19,8	20,2	20,6	21	21,4	21,8	22,2	22,6	23	23,4	23,8	24,2
	2.200	18,1	18,5	19	19,3	19,7	20,1	20,5	20,9	21,3	21,7	22,1	22,5	22,9	23,3	23,7	24,1	24,5	24,9
	2.300	18,8	19,25	19,8	20	20,4	20,8	21,2	21,6	22	22,4	22,8	23,2	23,6	24	24,4	24,8	25,2	25,6
	2.400	19,5	20	20,6	20,7	21,1	21,5	21,9	22,3	22,7	23,1	23,5	23,9	24,3	24,7	25,1	25,5	25,9	26,3
	2.500	20,2	20,75	21,4	21,4	21,8	22,2	22,6	23	23,4	23,8	24,2	24,6	25	25,4	25,8	26,2	26,6	27
	2.600	20,9	21,5	22,2	22,1	22,5	22,9	23,3	23,7	24,1	24,5	24,9	25,3	25,7	26,1	26,5	26,9	27,3	27,7
heig	2.700	21,6	22,25	23	22,8	23,2	23,6	24	24,4	24,8	25,2	25,6	26	26,4	26,8	27,2	27,6	28	28,4
Ħ	2.800	22,3	23	23,8	23,5	23,9	24,3	24,7	25,1	25,5	25,9	26,3	26,7	27,1	27,5	27,9	28,3	28,7	29,1
	2.900	23	23,75	24,6	24,2	24,6	25	25,4	25,8	26,2	26,6	27	27,4	27,8	28,2	28,6	29	29,4	29,8
	3.000	23,7	24,5	25,4	24,9	25,3	25,7	26,1	26,5	26,9	27,3	27,7	28,1	28,5	28,9	29,3	29,7	30,1	30,5
	3.100	24,4	25,25	26,2	25,6	26	26,4	26,8	27,2	27,6	28	28,4	28,8	29,2	29,6	30	30,4	30,8	31,2
	3.200	25,1	26	27	26,3	26,7	27,1	27,5	27,9	28,3	28,7	29,1	29,5	29,9	30,3	30,7	31,1	31,5	31,9
	3.300	25,8	26,75	27,8	27	27,4	27,8	28,2	28,6	29	29,4	29,8	30,2	30,6	31	31,4	31,8	32,2	32,6
	3.400	26,5	27,5	28,6	27,7	28,1	28,5	28,9	29,3	29,7	30,1	30,5	30,9	31,3	31,7	32,1	32,5	32,9	33,3
	3.500	27,2	28,25	29,4	28,4	28,8	29,2	29,6	30	30,4	30,8	31,2	31,6	32	32,4	32,8	33,2	33,6	34

Weights for single-action sliding panels without glass, without accessories in kg.

				width				
		950	1.000	1.050	1.100	1.150	1.200	1.250
	2.000	41,5	42,1	42,7	43,3	43,9	44,5	45,1
	2.100	42,6	43,2	43,8	44,4	45	45,6	46,2
	2.200	43,7	44,3	44,9	45,5	46,1	46,7	47,3
	2.300	44,8	45,4	46	46,6	47,2	47,8	48,4
heid	2.400	45,9	46,5	47,1	47,7	48,3	48,9	49,5
ght	2.500	47	47,6	48,2	48,8	49,4	50	50,6
	2.600	48,1	48,7	49,3	49,9	50,5	51,1	51,7
	2.700	49,2	49,8	9,8 50,4 51		51,6	52,2	52,8
	2.800	50,3	50,9	51,5	52,1	52,7	53,3	53,9
	2.900	51,4	52	52,6	53,2	53,8	54,4	55
	3.000	52,5	53,1	53,7	54,3	54,9	55,5	56,1

Content Accessories

100	Vertical seals – Overview
102	Vertical sealing profiles – General preparation
103	Vertical sealing profiles – Panel types
110	Handle bars, door knobs and recessed pull grips



Accessories

Vertical seals – overview

With regards to material, fixing and the grade of draft-proofing different solutions are available.

Retrofittable seals

The plastics profiles shown below provide an unobtrusive and retrofittable solution for draft protection at the glass edges.



Vertical sealing profiles with brushes

The aluminium sealing profiles are fixed to the full height of the panels, replacing the end caps at the top and bottom door rails. They are individually tailored to the requirements of the bottom door rails, so they are already prepared for the locking devices such as end caps, end pins when delivered by dormakaba. At the top, a degree of extra length is provided to enable precise sealing profile adaptation to the exact panel height on site once the system has been vertically aligned. The double brush seals interlock with those at the adjacent panel and continue in line with the double brush seals at the top and bottom door rails. This ensures excellent draft proofing.



Vertical sealing profiles – general preparation



Product description

Tool for preparing the top of the vertical sealing profiles on site

Art. No.

8.40.070.000.99



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Vertical sealing profiles – panel types



Installation instructions

When fitting the top and bottom door rails please ensure that the protrusion of the glass width on either side of a door rail is even. In case the panels incorporate a carrier profile a proper section of the double brush sealing profile is fixed to the carrier profile by a fixing cartridge. Prior to machining the sealing profile at the top for the exact length from the bottom to the top door rail, first hang the panels from the track rail and align. After the installation the vertical seal profiles need to be fixed with permanently elastic glue.



Single-End-/Double-Action Panels

As-delivered condition of the vertical sealing profiles:

Cut lengths supplied from factory

= System height – 90 mm

Holes and recesses are premachined in the profile for the bottom door rail only. Any further machining work required for connection to the top door rail has to be performed on site.

Vertical sealing profiles – panel types



Sliding panels

As-delivered condition of the vertical sealing profiles:

Cut lengths supplied from factory = System height – 90 mm

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Holes and recesses are premachined in the profile for the bottom door rail only. Any further machining work required for connection to the top door rail has to be performed on site.







Installation instructions

When fitting the top and bottom door rails please ensure that the protrusion of the glass width on either side of a door rail is even. In case the panels incorporate a carrier profile a proper section of the double brush sealing profile is fixed to the carrier profile by a fixing cartridge. Prior to machining the sealing profile at the top for the exact length from the bottom to the top door rail, first hang the panels from the track rail and align.





Installation instructions

When fitting the top and bottom door rails please ensure that the protrusion of the glass width on either side of a door rail is even. In case the panels incorporate a carrier profile a proper section of the double brush sealing profile is fixed to the carrier profile by a fixing cartridge. Prior to machining the sealing profile at the top for the exact length from the bottom to the top door rail, first hang the panels from the track rail and align. Sealing profiles with the standard short type brushes in both brush channels.

Sealing profiles with short type brushes in the inner brush channels and long type brushes in the outer brush channels.

Sealing profile without brushes at the panel's free edge; sealing profile with short type brushes at the 90° adjoining panel.









Sliding panels in segmented configurations

As-delivered condition of the vertical sealing profiles:

Cut lengths supplied from factory

= System height – 90 mm.

Holes and recesses are premachined in the profile for the bottom door rail only. Any further machining work required for connection to the top door rail has to be performed on site.

Vertical sealing profiles panel types



Single-action sliding panels (with TS 92 or ITS 96)/ double-action sliding panels (with ITS 96)

As-delivered condition of the vertical sealing profiles:

Cut lengths supplied from factory

= System height – 90 mm.

Holes and recesses are premachined in the profile for the bottom door rail only. Any further machining work required for connection to the top door rail has to be performed on site.



Installation instructions

When fitting the top and bottom door rails please ensure that the protrusion of the glass width on either side of a door rail is even. In case the panels incorporate a carrier profile a proper section of the double brush sealing profile is fixed to the carrier profile by a fixing cartridge. Prior to machining the sealing profile at the top for the exact length from the bottom to the top door rail, first hang the panels from the track rail and align.



Installation instructions

When fitting the top and bottom door rails please ensure that the protrusion of the glass width on either side of a door rail is even. In case the panels incorporate a carrier profile a proper section of the double brush sealing profile is fixed to the carrier profile by a fixing cartridge. Prior to machining the sealing profile at the top for the exact length from the bottom to the top door rail, first hang the panels from the track rail and align.



Single-action sliding panels (with TS 92 or ITS 96)/doubleaction sliding panels (with ITS 96) with UNIVERSAL centre lock and UNIVERSAL strike box

As-delivered condition of the vertical sealing profiles:

Cut lengths supplied from factory = System height – 90 mm

Holes and recesses are premachined in the profile for the bottom door rail only. Any further machining work required for connection to the top door rail has to be performed on site.

Vertical sealing profiles – panel types



Fixed panels

As-delivered condition of the vertical sealing profiles:

Cut lengths supplied from factory = System height – 90 mm.

Holes and recesses are pre-

machined in the profile for the bottom door rail only. Any further machining work required for connection to the top door rail has to be performed on site.







Installation instructions

When fitting the top and bottom door rails please ensure that the protrusion of the glass width on either side of a door rail is even. In case the panels incorporate a carrier profile a proper section of the double brush sealing profile is fixed to the carrier profile by a fixing cartridge. Prior to machining the sealing profile at the top for the exact length from the bottom to the top door rail, first hang the panels from the track rail and align.
Space for your notes

Pull handles, door knobs and recessed pull grip

The pull handle/knob system is designed for glass of 8, 10 and 12 mm thickness.

The pull handles can be fixed to both sliding and pivoting (swing) doors on one face using the appropriate connectors or on both faces by through-bolting (back-to-back arrangement).

Due to a flat structure recessed pull grips are also suitable for sliding doors.

The single-point fixings and through bolts are included as standard equipment in the scope of supply.

The pull handles can be fitted horizontally, vertically or in a handrail arrangement.





* Conversion sets for back to back pull handles for timber doors resp. other glass thicknesses see unter "Spacing adjustment for pull handles and door knobs", page 113.

Product description	on	Glass thickness	Art. No.
Pair of handle bar satin stainless ste length 350 mm, 2 fixing points, weight in kg: material 1.4305 do., material 1.440	s el 1.254)4	8/10/12 mm	21.267* 21.247
Pair of handle bar aluminum length 350 mm, 2 fixing points, weight in kg: aluminum	5 1.326	8/10/12 mm	03.400
Pair of handle bar satin stainless ste length 720 mm, 2 fixing points, weight in kg: material 1.4305 do., material 1.440	s el 1.947	8/10/12 mm	21.270* 21.250
Pair of handle bar aluminum length 720 mm, 2 fixing points, weight in kg: aluminum	s 2.423	8/10/12 mm	03.402
Pair of handle bar satin stainless ste length 1,240 mm, 3 fixing points, weight in kg: material 1.4305 do., material 1.440	s el 3.400	8/10/12 mm	21.273* 21.253
Pair of handle bar satin stainless ste length 1,760 mm, 4 fixing points, weight in kg:	s el 5.000	8/10/12 mm	
material 1.4305 do., material 1.440)4		21.276* 21.256

Pull handles single

	Product description	Glass thickness	Art. No.
	Pull handles with single-point fixings, countersunk Edelstahl Pull handle 350 mm with 2 fixings, material 1.4305 do., AISI 316L Pull handle 720 mm with 2 fixings, material 1.4305 do., AISI 316L Pull handle 1,240 mm with 3 fixings, material 1.4305 do., AISI 316L Pull handle 1,760 mm with 4 fixings, material 1.4305 do., AISI 316L	8/10/12 mm	29.268 29.269 29.271 29.272 29.274 29.275 29.277 29.278
ST ST	Pull handles with single-point fixings, clamping disc Pull handle 350 mm with 2 fixings, material 1.4305 Pull handle 720 mm with 2 fixings, material 1.4305 do., AISI 316L Pull handle 1,240 mm with 3 fixings, material 1.4305 Pull handle 1,760 mm with 4 fixings, material 1.4305 do., AISI 316L	8/10/12 mm	21.240 21.241 21.281 21.242 21.243 21.283











Glass thickness Cylindrical bore on pair of pull handles and door knobs, back-to-back

Spacing adjustment for pull handles and door knobs

		Product description	Door thickness	Art. No.
d		Conversion set 1 for glass doors, pair of pull handles / knob back-to-back	13.5 – 21.5 mm	21.285
- All All All All All All All All All Al	Jele	without distance washer	13.5 mm	
T es		with 1 distance washer	15 mm	
QUL		with 2 distance washers	17.5 mm	
Distance washer 2 mm		with 4 distance washers	19 mm 21.5 mm	
			2210 11111	
		Conversion set 2 for timber doors,		21.286
		pair of pull handles / knob back-to-back	20 – 40 mm	
	APPL	without distance washer	20 mm	
	DEL	with 1 distance washer	25 mm	
o e	D	with 2 distance washers	30 mm	
		with 3 distance washers	35 mm	
		with 4 distance washers	40 mm	
Distance washer 5 mm				
	0	Conversion set 3 for glass / timber		21.287
		doors*,		
<u>()</u>		pair of pull nanales / knob back-to- back, countersupk 15 - 40 mm alass /		
		timber thickness		
at a	9			21.288
		Conversion set 4 for glass / timber		
(0)		to-back, clamping disc 15 - 40 mm		
		glass / timber thickness		
Set 3	Set 4			
\sim	\wedge	Conversion set 5 for glass doors*,		21.295
6	6	recessed pull grip		
~		13.5 - 21.5 mm glass thickness		
0	0	Conversion set 6 for timber doors*,		21.296
\sim	\wedge	recessed pull grip		
	6	20 - 40 mm timber thickness		
\sim				
6	6			
\sim				
0				
Set 5	Set 6			
		Conversion set 7 for glass / timber		21.297
		doors", for pull handles fixed on both		
		countersunk 8 - 40 mm alass / timber		
		thickness		
	e g u	1 set per pull handle fixing		
				.
		Conversion set 8 for glass / timber		21.298
OF	a l	sides to pull handle fixed on one side.		
		clamping disc 8 - 40 mm glass / timber		
<u></u>	5	thickness		
Set 7	Set 8	1 set per pull handle fixing		

*Not suitable for Arcos pull handles 26.500 / 26.510

Pair of pull handles



Arcos pull handle



Handle bars



Recessed pull grips and door knobs

	Product description	Glass thickness	Art. No.
Ø 38 mm Glass bore	Recessed pull grip Ø 50 mm	8/10/12 mm	21.290
	Recessed pull grip Ø 60 mm	8/10/12 mm	21.291
Ø 50 mm Glass bore	Recessed pull grip with grip hole Ø 60 mm	8 mm 10 mm 12 mm	21.292 21.293 21.294
Ø 50 mm Glass bore	Recessed pull grip aluminum to be glued onto the glass Weight in kg: 0.072		07.200
\emptyset 20 mm Glass bore	Door knob, aluminum Weight in kg: 0.400		07.201
Glass thickness	Door knob one side fixing	8/10/12 mm	
	Door knob with single-point fixing, countersunk Door knob with single-point fixings, clam- ping disc		21.422 21.426
Glass thickness	Door knob back-to-back	8/10/12 mm	21.423
The the state			
Single-point (Glass preparation plea (Glass pla) (Glass preparation plea (Glass pla) (Glas			

Note: To ensure better load transmission, please use a pull handle in conjunction with the DORMOTION damping unit.

Accessories HSW FLEX Therm

Lateral multipoint locking

Product description MULTIBLINDO classic Mortise lock with 3- or 4-point locking, hook bolt with bolt, operation with Euro profile cylinder. With reversible and adjustable latch. The latch can be exchanged for a roller latch or locking cap. MULTIBLINDO easy Mortise lock with activatable self-locking and three practical door functions. Suitable for the use of knob or handle bar outside and Lever handle inside. MULTIBLINDO easy exit Mortise lock with activatable self-locking and three practical door functions. Suitable for use with knob or handle bar on the outside and Lever handle inside. Catch and bolt are retrieved with the panic lever or the emergency handle. Surface-mounted door closer TS 93 with snap-in locking • For barrier-free doors according to DIN 18040 • Easy door opening according to DIN SPEC 1104 EASY OPEN technology



• Standard delayed closing and soft-closing action

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Handles / Knobs



Handle bars



Space for your notes

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General Information

Measuring up

Important site measurements





Notes on portal systems

Maintenance recommendation for high-frequency HSW systems

Horizontal sliding walls with glass panels have been developed in order to provide retail outlets with generous and enticing frontages – entrances that offer easy accessibility and an inviting appearance for customers. When the frontages are closed, they can double up as expansive shop windows.

In cases where double-action sliding panels are used for main entrances as a portal system (i. e. in shopping malls or as similar operated HSW systems) they are submitted to very high daily traffic volumes and usage frequency rates.

The door closers and pivot bearings used by dormakaba have been successfully tested in accordance with the requirements of EN 1154. EN 1154 specifies 500,000 test cycles for manually operated closing devices. High-frequency portal systems such as the above can reach this number of cycles after just a few months. Consequently, dormakaba recommends that such units be regularly maintained. The higher the usage levels, the more frequently the equipment should be serviced by either the installation firm or a similarly specialized fitter.

In addition to any door closer that may be fitted, a suitable opening limitre (to be provided on site) will also be required as protection for single-action and double-action sliding panels. In the case particularly of public and highly frequented entrance systems, door closers are unsuitable as opening limitres as any excess pressure applied to doors will lead to high stress forces being applied at the sweep maximum.

Finishes

Deviations in colour due to production procedures cannot be totally excluded.

HSW systems with surface finishes 700 and 701 contain different component materials.

In the case of FSW (folding sliding walls) systems, for example, the folding hinges are always of aluminium, while the standard surface finish for brush profiles and end covers is black anodised (E6/C35). These various components can also optionally be anodised or powder-

Finishes

Aluminium	dormakaba No.	Sim. to Eloxal I	Sim. to Eloxal II
AL mill finish (Aluminium R 600)	100		
AL silver EV1 anodized (similar Eloxal I EV1 / Eloxal II C 0)	101	EV1	C 0
AL similar satin stainless steel anodized	107		
AL similar satin stainless steel anodized (for profile material) (similar Eloxal II C 31)	113		C 31
AL special color anodized	199		

Powder coated colours	dormakaba No.	Sim. to HEWI-No.	Sim. to RAL
AL traffic white powder coated	300	99	9016
AL special color powder coated (Standard powder according to RAL)	399		

Special colour	dormakaba No.
Satin stainless steel (Niro S 700 ST)	700

coated so that they resemble the ordered surface finish. The standard surface of upper locking units and upper locking bolts is a powder-coated RAL colour.

Typical manufacturing flow marks appear when anodising the milled area of the track rail modules. As an alternative to the anodized EV1 surface finish, we therefore offer modules and track rails in all lengths in a powder-coated version similar to EV1 for visual reasons.

Finishes HSW EASY SafeAluminiumdormakaba No.AL mill finish (Aluminium R 600)100AL silver anodized (Silver N 600 ST)
(compatible with finish 114)150AL niro anodized (Niro N 700)157AL special color anodized199

Coloured coatings	dormakaba No.
AL black powder coated (Black P 190 SG)	304
AL similar EV1 powder coated (Silver P 600 SG)	318
AL white powder coated (White P 100 SG)	350
AL high weather resistant powder coated (Color P WR)	398
AL special color powder coated (Standard powder according to RAL)	399

Safety-related information

Important safety-related information for the mounting and use of dormakaba glass fittings.

(Follow these instructions in addition to the mounting and operating instructions in order to avoid damage of product and damage to person or property.) **Important:** All users have to be informed about relevant points mentioned in these safety-related information and the mounting and operating instructions!

General information

- 1. dormakaba recommends the use of TSG-H (heat-stored tempered safety glass) according to DIN EN 12150-1.
- 2. dormakaba glass fittings are not suitable for outdoor installation.
- 3. dormakaba glass fittings are not suitable for rooms where chemicals (e.g. chlorine) are used, e.g. swimming pools, saunas and brine baths.



- 4. Sliding panels must not be moved faster than at walking speed and must be stopped by hand before reaching the end positionwill be.
- 5. Pivoting panels must not be thrown too hard. If there is a risk of over-turning, this must be prevented by a door stop.

Mounting

- 1. Only properly qualified and specially trained staff is authorised to mount dormakaba glass fittings.
- 2. Never use glass with conchoidal fractures and/or damaged edges.
- 3. Due to crushing hazards among others in the area of the secondary closing edge – and possible injury caused by breakage of glass during mounting, corresponding protective clothing (especially gloves and protective goggles) is required.
- 4. Clean clamping area with fat solvent (standard commercial cleaning agent) before mounting the glass fitting.
- 5. Never use clamping shoes on structured glass surfaces (except on satined glass) or glass of heavily varying thickness unless with a corresponding levelling layer.
- 6. Never use clamping shoes on self-cleaning coatings.
- 7. When adjusting glass elements, always stick to the required clearance for the respective fitting. Adjust clearance so that the glass does not touch hart components such as glass, metal or concrete.
- 8. Make sure not to use excessive force when installing the glass (avoid local stress resulting from very tight screws).

Maintenance

Check fittings at regular intervals for proper positioning and smooth running and door for correct adjustment. Especially highly-frequented door systems require inspection by properly qualified staff (specialised companies or installation firms). Immediately replace damaged class elements (no glass flaking and/or conchoidal fractures)!

General care instructions

The surface finishes of the fittings are not maintenance-free and should be cleaned according to their material and design.

- For metallic surfaces (anodised finishes, stainless steel) please use appropriate cleaning agents without abrasive additives only.
- For varnished surfaces please use appropriate solvent-free cleaning agents only.
- Brass surfaces (without surface protection) have to be treated with an appropriate maintenance agent on occasion, to avoid tarnishing.

For practical planning, please use our drawings dormakaba "The Detail".

The printed colours indicating the surface finishes are not 100 % true, but do provide a useful guide. Statements made with regard to the nature or use of the products are for the purposes of descriptions. Assent with regard to the existence of particular properties or particular uses always requires special written agreement. Pictures may show special designs which are different to the standard scope of delivery.

Subject to change without notice.

Our products



Interior Glass Systems

System solutions made from glass for a wide range of everyday and office applications



Mechanical Key Systems

Systems that enable access rights and key control to all rooms within the premises



Lodging Systems

Hotel locks and locking systems as well as access management solutions for holiday homes



Electronic Access & Data

Electronic access control and workforce management for efficient access management, security and data collection



Entrance Systems

Automated access solutions for convenient access to buildings



Door Hardware

Solutions for residential or commercial projects



Safe Locks

Security locks for preventing unauthorized access to goods, valuables, information or hazardous substances



Services

Tailor-made services and customized maintenance for long-term functional integrity of access and security solutions

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