

BST COMFORT LINE

Automatic Curved Sliding Doors



Attractive visual appearance, various fields of application.

dormakaba BST COMFORT LINE automatic curved sliding doors are the perfect answer to providing entrance areas with a customised and aesthetically pleasing appearance. The systems can be delivered in half-circle (180°) and full-circle (360°) design. They are available in 6 well established diameters. The façade connection is realised with a flexible connection profile.

The door systems are manufactured as concave and convex versions. Tailored to your architectural concept, dormakaba BST COMFORT LINE automatic curved sliding doors can be designed to either contrast or harmonise with the building façade, providing an all-glass appearance complemented and augmented by the slender profiles of their fine-framing.

They can also be combined with other automatic doors

Reliable and safe

As in the case of all components and systems from the dormakaba portfolio, dormakaba BST COMFORT LINE curved

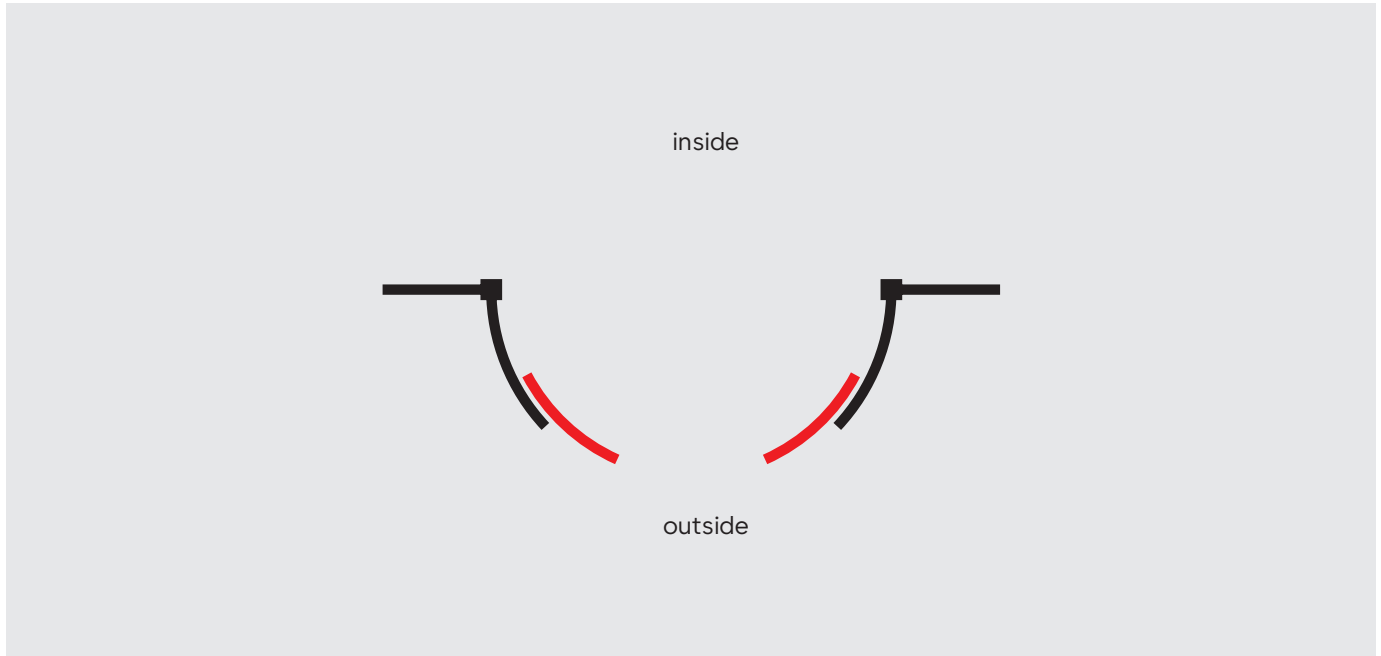
sliding doors excel in reliability and user convenience. The self-learning microprocessor control unit keeps the system running smoothly and reliably. Combining with the integrated presence sensor, it also ensures maximum operational safety.

The doors are designed to order, manufactured to fit and supplied ready for installation. If required, dormakaba will also perform the installation and commissioning work. If desired, the doors can be equipped with safety components (sensors) in accordance with EN16005/DIN 18650.

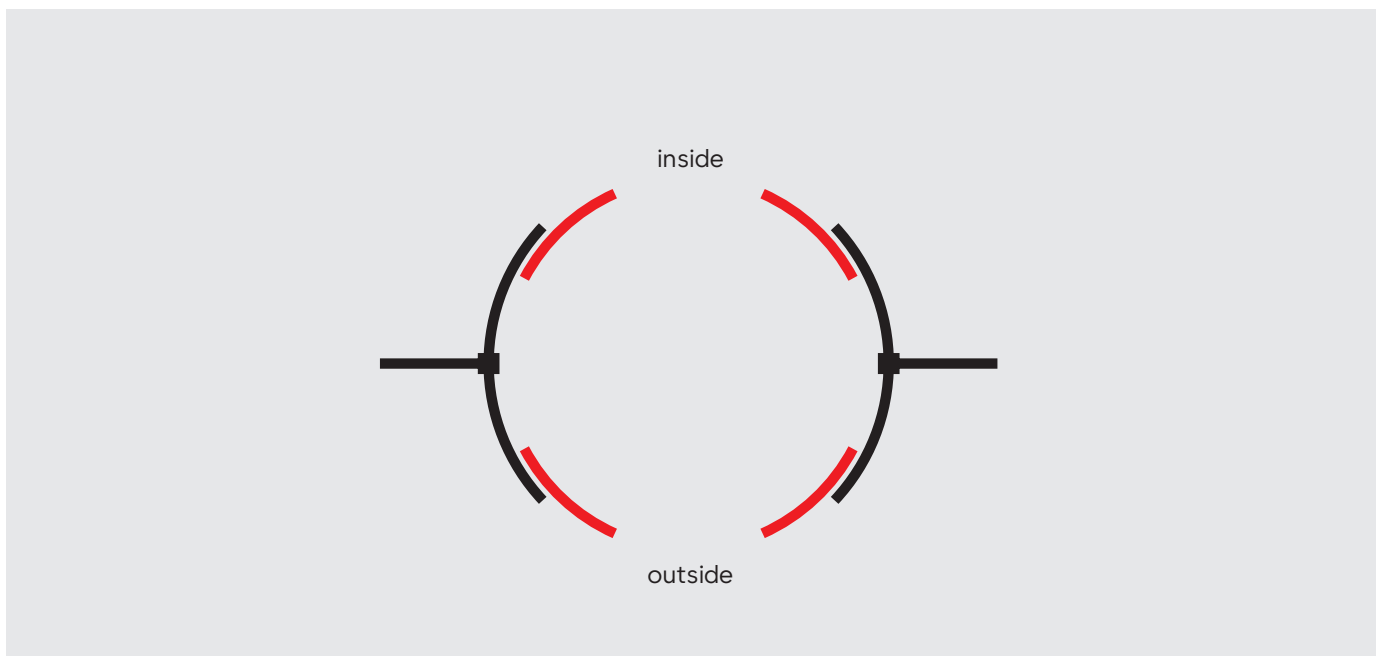


Basic configurations

Half-circle



Full-circle



Technical Data

Data and features	BST COMFORT LINE
Clear passage width LW ²⁾	1235, 1519, 1660, 1802, 1943, 2085
Escape route	–
Installation width B ²⁾	2100 mm
Passage height H	2200 / 2500 mm ¹⁾
Half-circle radius r	1000, 1200, 1300, 1400, 1500, 1600
Full circle radius r	1000, 1200, 1300, 1400, 1500, 1600
Segmental radius r	freely selectable, min. 1000 mm
Number of sliding panels	2
2-panel, symmetrical	●
Fixed side screens	●
Canopy height (min.)	260 mm
Canopy height extension ¹⁾	260 – 500 mm
Sliding panel, convex	●
Max. weight per door panel	80 kg

¹⁾ Standard dimensions (other dimensions on request)

²⁾ Depending on radius r

Technical data	BST COMFORT LINE
Power consumption, max.	250 W
Power consumption, average	30 W
Supply voltage/frequency	230 V / 50 – 60 Hz
External power supply	27 V DC / 2 A
TÜV type-approved	●
Compliant with the Low Voltage Directive	●
Manufactured to ISO 9001	●

Adjustable parameters	BST COMFORT LINE
Opening speed per panel, adjustable	100 – 750 mm/s
Closing speed per panel, adjustable	100 – 500 mm/s
Low (creep) speed per panel, adjustable	30 – 90 mm/s
Opening and closing force, adjustable	●
Max. force on contact with obstacle	150 N

● standard ○ optional

Accessories

Operator and control unit	BST
Operator	ES 200
Microprocessor control unit	●
Integrated presence sensor	○
Equipped in accordance with EN 16005/DIN 18650	○
Obstruction self-recognition	●
Automatic reversing cycle on obstruction contact	●
Complete system self-test	●
Connection for airlock function	●
Parameter adjustment capable	●
Self-learning	●
Class of protection	IP 20
Pulse expansion for cheque and code card readers or key switches	●
Potential-free contact	●
Bus-capable	●
Door status contact, locking device for door system	○

Program modes	BST
Off	●
Automatic	●
Exit Only	●
Permanent Open	●
Partial Open, Exit Only	●
Night-/Bank Function	●

Design of ceiling	BST
Ceiling, melamine, white	●
Upper dust-proof ceiling	●
Rain-proof ceiling with drainage spouts (prepared)	○

Profiles and glazing	BST
Fine-frame profile system with 8 mm ESG	-G ●
Fine-frame profile system with 8,76 mm VSG	-G ○

Accessories	BST
Straight panel board for top façade connection	○
Lateral façade connection glass/panel board	○
Aluminium girder with aluminium cover, external	●
Aluminium girder	●
Downlights	
Ceiling aperture for downlights by others	○
Halogen spot, 20 W, including ceiling aperture and accessories	○
Floor finish	
Emco floor mat	○
Arwei floor mat	○
Floor guide rail	
Surface-mounted floor guide without floor ring	●
Surface-mounted floor guide with floor ring	○
Flush-mounted floor guide with floor ring (Compulsory for clear passage widths (LW) beyond 1500 mm)	○

Accessories/Safety equipment	BST
Locking device	
- Electro-mechanical locking device	○
Fail-safe via emergency power supply unit	○
Monitored rechargeable battery pack	○
Intrinsically safe activator in escape direction	○
Radar motion detector, external	○
Radar motion detector, internal	○
Emergency pushbuttons	
Emergency Off function	○
Emergency Opening function	○

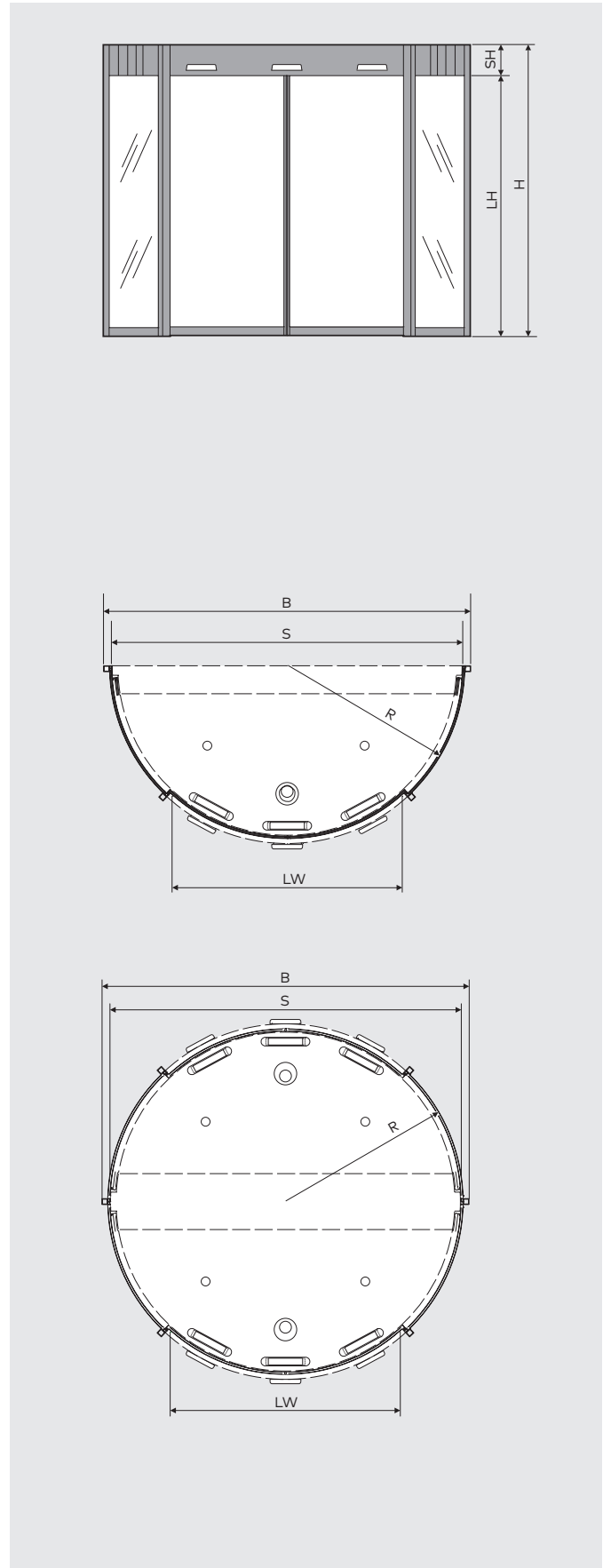
● standard ○ optional

Half-circle and full-circle configurations

Standard dimensions

- Clear passage width **LW**
- Actual radius **r**
- Internal width **S**
- System width **B**
- Clear passage height **LH**
- Canopy height **SH**
- System height **H**

Dimensions in mm

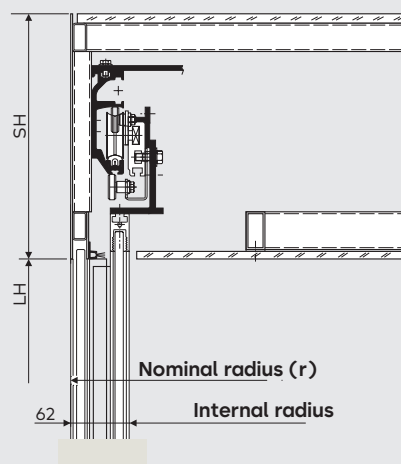


Half-circle and full-circle configurations

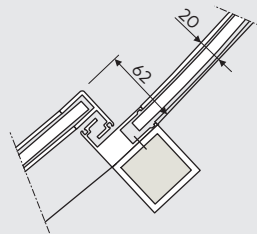
Fine-frame profile system G						
LH		2200		2500		
SH				260		
H				LH + SH		
r	1000	1200	1300	1400	1500	1600
S	1960	2360	2560	2760	2960	3160
B	2100	2500	2700	2900	3100	3300
LW	1235	1519	1660	1802	1943	2085

Dimensions in mm

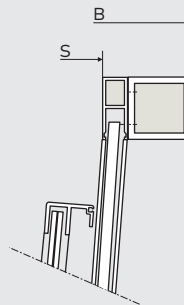
Fine-frame profile system G



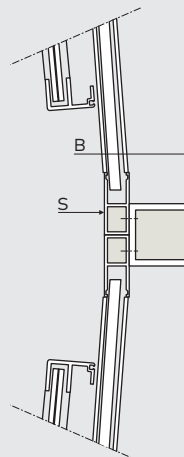
Drum wall and sliding panel with sealing profiles



Panels with centre seals



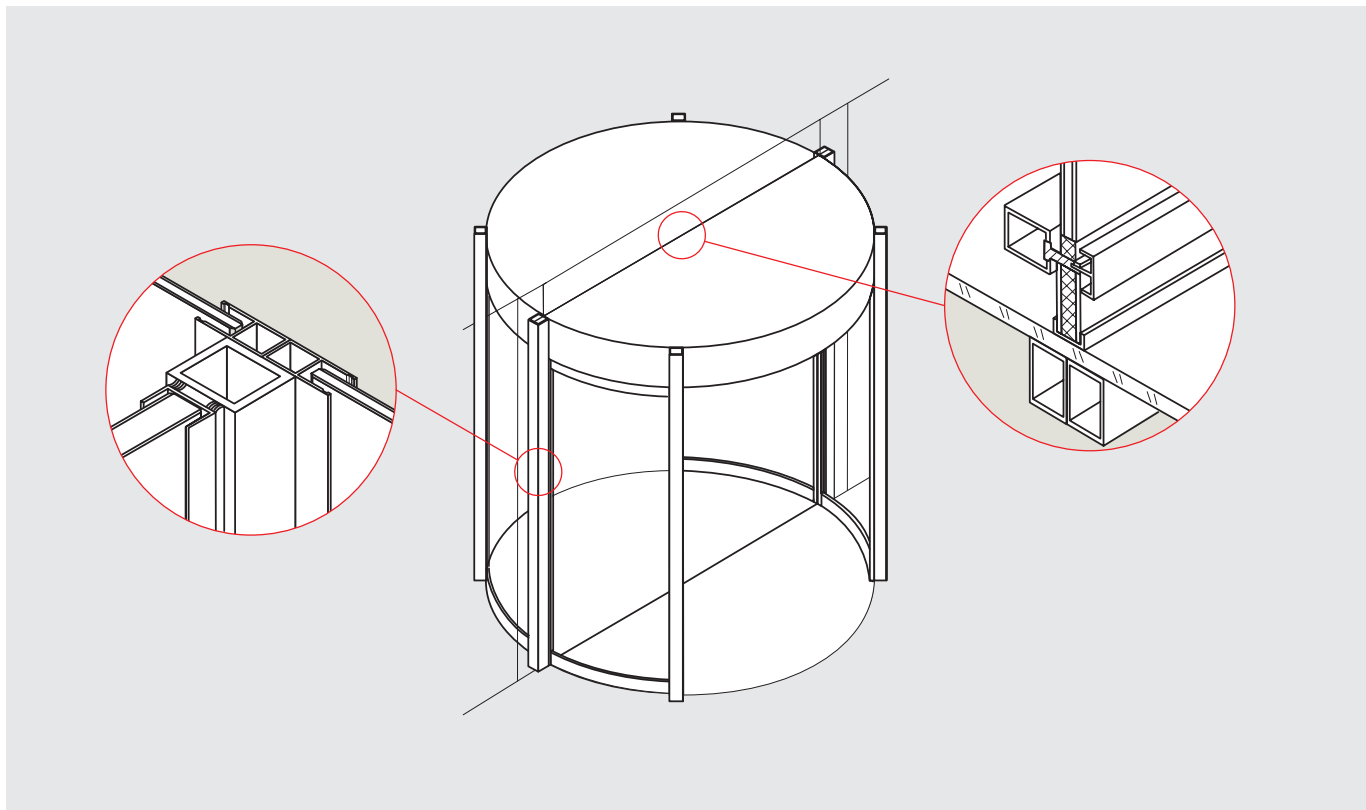
Aluminium girder with connection to half-circle drum wall



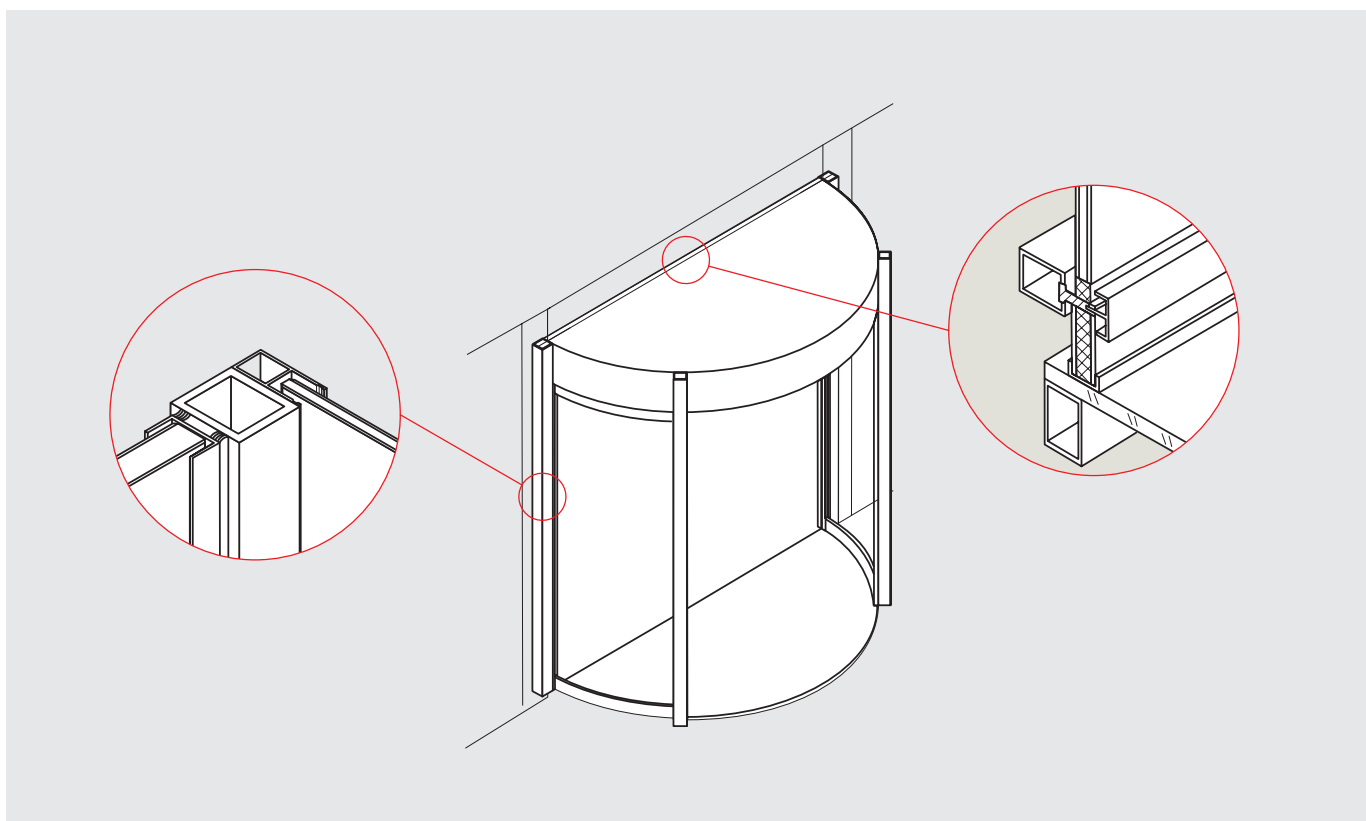
Aluminium girder with connection to full circle drum wall

Façade connections

Façade connection 360°



Façade connection 180°



Floor guides, Floor rings

Floor Guides

Surface-mounted floor guide without floor ring

Surface-mounted floor guide with floor ring

Flush-mounted floor guide with floor ring

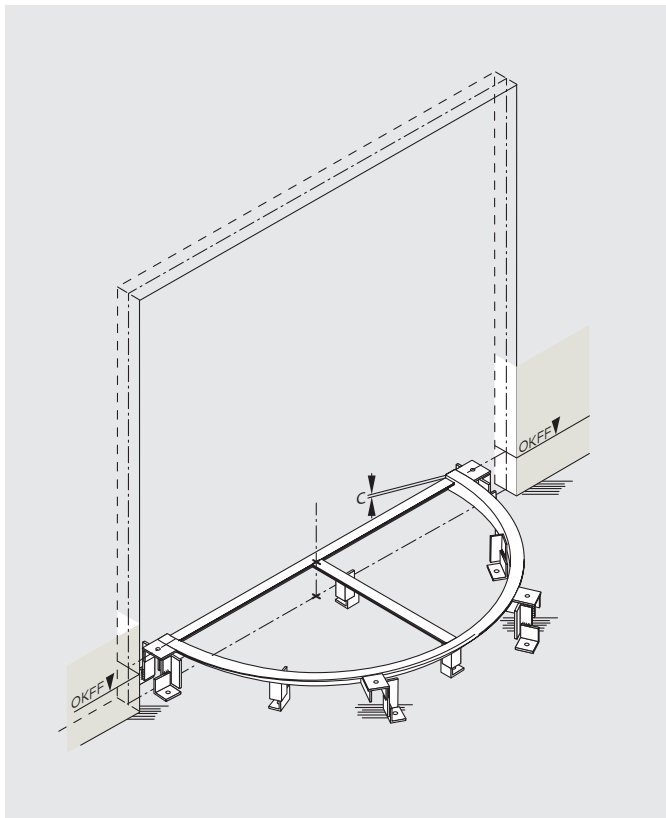
The design of the floor guide depends on the opening width* and the prevailing on-site conditions and comprises

- surface-mounted floor guides with/without floor ring
- flush-mounted floor guides with floor ring

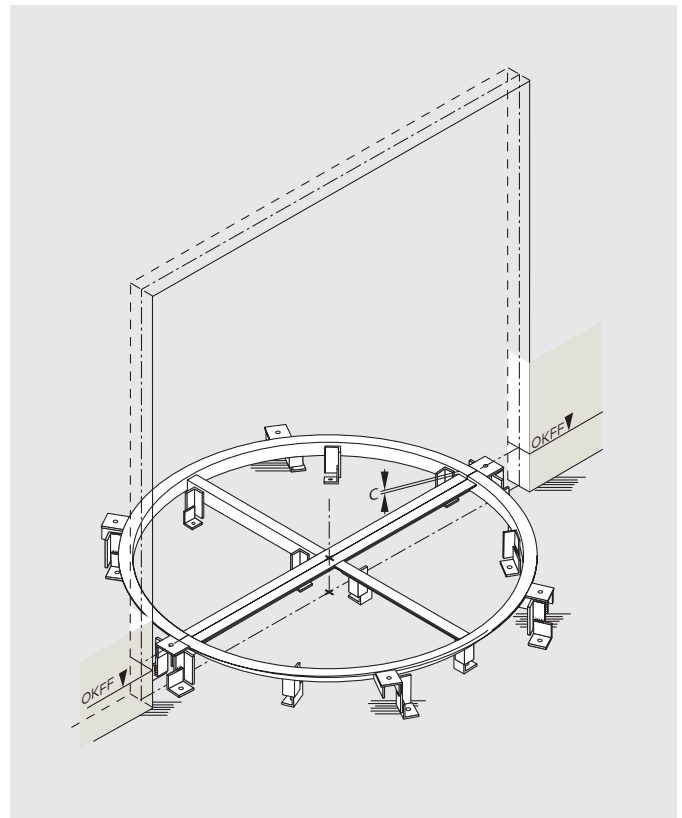
*Starting from a clear opening width of 1500 mm, a flush-mounted floor guide is required.

**upper edge of unfinished floor

Floor ring with half circle design



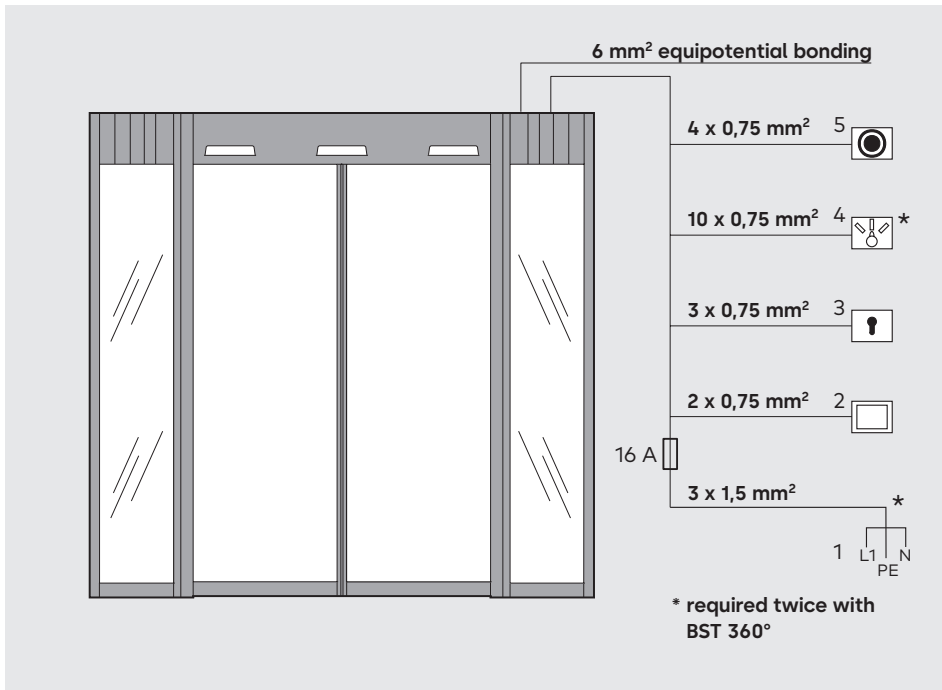
Floor ring with full circle design



dormakaba BST/FBST Comfort Line



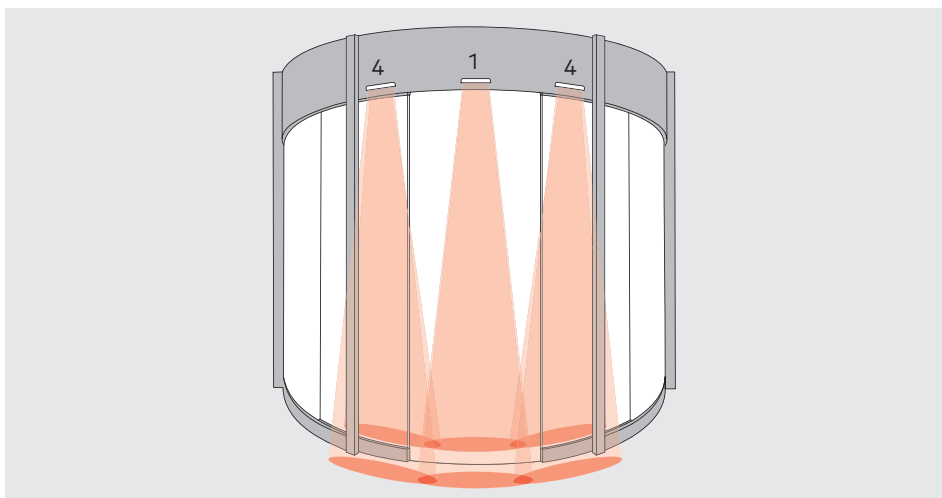
Connection diagram



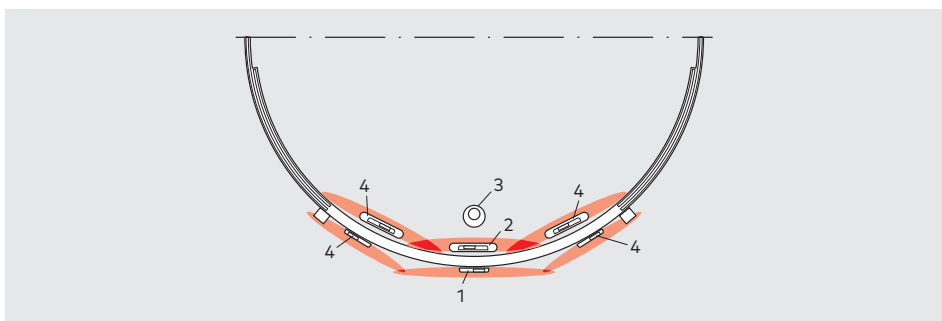
- 1 Feeder
- 2 Internal pushbutton
- 3 Key switch
- 4 Program switch
- 5 Emergency pushbutton (option)

The external Emergency Off pushbutton must be installed close to the door. The maximum cable length amounts to 30 m. The cable can be laid together with the cable for the program switch. The maximum length of the cable connecting the external program switch is 30 m. If the cable is laid with other cables, it must be provided with a shield..

Safety equipment



- 1 External radar motion detector/ combined sensor, external (compulsory with EN 16005/DIN 18650)
- 2 Integrated infrared safety sensor to monitor the passage area
- 3 Internal radar motion detector
- 4 Infrared safety sensor (optional, compulsory with EN 16005/DIN 18650)



Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impact through its entire life cycle, dormakaba provides Environmental Product Declarations (EPD), based on holistic life cycle assessments.

www.dormakaba.com/sustainability



Our offering

Access Automation Solutions

Entrance Automation
Entrance Security



Access Control Solutions

Electronic Access & Data
Escape and Rescue Systems
Lodging Systems



Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems



Services

Technical Support
Installation and commissioning
Maintenance and Repair

