

Geryon

Revolving doors



Energy-Saving Geryon Revolving Doors

Convenient, Transparent, Timeless

Versatile Geryon revolving doors

Thanks to their closed design, revolving doors in particular save the highest possible amount of energy during entry or exit of a building. Without the draught that usually occurs with standard opening doors, the interior next to the revolving door may be optimally used for a reception or seating area. Optimal throughput rates can be achieved by people being able to enter and exit the building at the same time. The revolving doors come in a wide variety of options according to the customers' demands: with emergency exit function, with secure night closure or with corresponding resistance classes against burglary. The transparent design adds to the attractiveness of the entrance area, which is representative of the building as a whole.

User friendliness

A sophisticated sensor system in compliance with the latest standards prevents users from being injured. A button for wheelchair users reduces the rotational speed of the drive, while the running controller limits the speed and protects against impacts, crushing and jamming.

Security

For increased security demands, reinforced burglary-resistant versions are certified according to standards RC2 respectively. Options such as a rotating unit with emergency exit¹ or night closure function complete the product range.

¹ Individual approval required (responsible building authority)



Advantages of Geryon Revolving Doors

Versatility for users and operators.

Geryon RDR revolving doors

- Energy-saving thermal separation
- Transparent all-glass units with filigree profiles
- Solutions suitable for escape routes
- Option with night closure
- Optional button to make access easier for disabled users
- Versions with resistance classes RC2
- Safety sensor system according to DIN EN 16005



Barrier-free access for revolving doors by adding swing doors or sliding doors at the side, or alternatively by reducing the rotating speed.



The ideal solution for any access point



01
Four-leaved revolving door with approved emergency exit rotating unit

02
Revolving door with a glass ceiling without strip

03
Added security through night-time closure and better thermal separation when closed



For a stylish entrance at::

- Hotels
- Office and administrative buildings
- Shopping centres
- Airports
- Train stations
- Hospitals
- Banks and financial institutions
- Museums
- Concert halls

Geryon Revolving Doors RDR

Throughput rate = 16 to 28 per minute
(1 direction)

Security level = ●●●○○

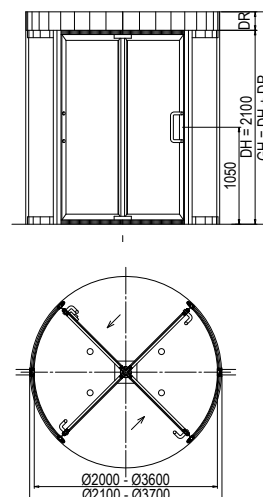
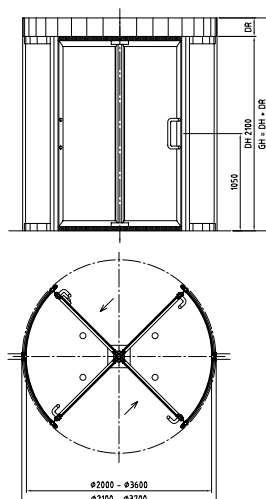
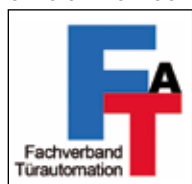
Comfort = ●●●○○

Geryon revolving doors



Standard units	RDR-E01	RDR-C01
Note		Additional options compared to RDR-E01.
Construction		
Outside diameter	2100 – 3700	2100 – 3700
Entrance and escape route width	See dimensions table on page 11.	See dimensions table on page 11.
Total height	2300	2300
Passage height	2100	2100
Upper part of body	200	200
Number of door leaves	4	4
Rotary cycle	180°	180°
Body		
Side panels	With 8 mm laminated safety glass, alternatively metal-clad.	With 8 mm laminated safety glass, alternatively metal-clad.
Thermal separation	In facade level.	In facade level.
Top cover/ceiling	Top dustproof cover made of raw aluminium plate.	Top dustproof cover made of raw aluminium plate.
Maintenance openings	Two maintenance openings in the lower ceiling plate (for DL option, outer opening can be locked using customer's profile half cylinder).	Two maintenance openings in the lower ceiling plate (for DL option, outer opening can be locked using customer's profile half cylinder).
Rotating unit		
	Framed in T40 light metal profiles.	Framed in T40 light metal profiles.
	Tempered safety glass.	Tempered safety glass.
	With sealing brushes.	With sealing brushes.
	Black U-shaped handles.	Black U-shaped handles.
	Bolt lock prepared for on-site profile cylinder.	Bolt lock prepared for on-site profile cylinder.
Finish	Powder-coated in a RAL colour.	Powder-coated in a RAL colour.
Function	Can be revolved manually, smooth running.	Can be revolved manually, smooth running.
Installation	On finished floor level (FFL).	On finished floor level (FFL).

official member of

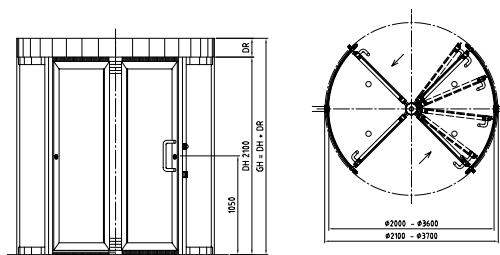


All dimensions in mm

Geryon revolving doors



Standard units	RDR-C03
Note	¹ Unterliegt der lokalen Gesetzgebung. Ggfs. nur mit Zustimmung im Einzelfall (zuständige Bauaufsichtsbehörde)
Construction Outside diameter	2100 – 3700
Entrance and escape route width	See dimensions table on page 11.
Total height	2300
Passage height	2100
Upper part of body	200
Number of door leaves	4
Rotary cycle	180°
Body Side panels	With 8 mm laminated safety glass, alternatively metal-clad.
Thermal separation	In facade level.
Safety strips	On opposite closing edges.
Top cover/ceiling	Top dustproof cover made of raw aluminium plate.
Maintenance openings	Two maintenance openings in the lower ceiling plate (for DL option, outer opening can be locked using customer's profile half cylinder).
Rotating unit	Framed in T56 light metal profiles.
	Tempered safety glass, including break-out symbols to stick on the door leaves.
	With sealing brushes.
	Black U-shaped handles.
Safety strips	Horizontal and vertical on the door leaves.
	Two bar locks to lock the rotating unit upwards and downwards.
Finish	Powder-coated in a RAL colour.
Function	Fully automatic K8-SA1 with OPL 01 and KGB emergency escape module.
	Motion started using infrared sensors.
	Reverse button in the entrance segments.
	Two buttons, Ø 20, for disabled persons.
	Two emergency stop switches.
Electrical equipment	Control system integrated in the unit.
	Power supply 230 VAC, 50 Hz.
Installation	On finished floor level (FFL).



All dimensions in mm



RDR-S01

2100 – 3300 (3700 only in the case of T40)

See dimensions table on page 11.

2230

2100

130

4

180°

With 8 mm laminated safety glass.

In facade level.

Glass ceiling consisting of 2 laminated safety glass segments.

Framed in T25 light metal profiles (Ø 3700 T40).

Tempered safety glass.

With sealing brushes.

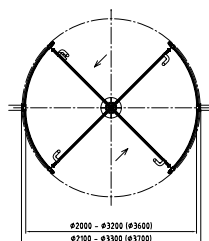
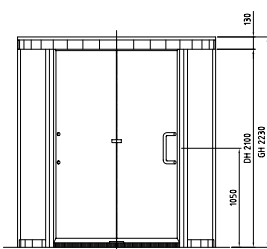
Black U-shaped handles.

Bolt lock prepared for on-site profile cylinder (closed downwards).

Powder-coated in a RAL colour.

Can be revolved manually, smooth running.

On finished floor level (FFL).



Dimensions tables

RDR-E01 / RDR-C01	Ø outside	Ø inside	Entrance width 180°
	2100	2000	1332
	2200/2300	2100/2200	1402/1474
	2400/2500	2300/2400	1544/1615
	2600/2700	2500/2600	1685/1756
	2800/2900	2700/2800	1826/1897
	3000/3100	2900/3000	1968/2039
	3200/3300	3100/3200	2109/2180
	3400/3500	3300/3400	2251/2322
	3600/3700	3500/3600	2392/2463
RDR-C03	Ø outside	Ø inside	Entrance width 180°
	2100	2000	1300
	2200/2300	2100/2200	1370/1440
	2400/2500	2300/2400	1510/1580
	2600/2700	2500/2600	1650/1720
	2800/2900	2700/2800	1790/1860
	3000/3100	2900/3000	1930/2000
	3200/3300	3100/3200	2070/2140
	3400/3500	3300/3400	2210/2280
	3600/3700	3500/3600	2350/2420
RDR-S01	Ø outside	Ø inside	Entrance width 180°
	2100	2000	1332
	2300	2200	1474
	2500	2400	1615
	2700	2600	1756
	2900	2800	1897
	3100	3000	2039
	3300	3200	2180
	3700	3600	2463

Console 1
plastic in RAL 9006
e.g. for contactless
reader



width 94 mm
height 94 mm
depth 65 mm

Console 4
stainless steel satin
finish



width 118 mm
height 93 mm
depth 60 mm

Console 5
stainless steel satin
finish



width 118 mm
height 164 mm
depth 60 mm

Two emergency
stop switches.



OPL 01
OPL 02
OPL 03



Escape route width 180°	Entrance width 120°	Escape route width 120°
	849	
	944/994	
	1044/1094	
	1144/1194	
	1244/1294	
	1344/1394	
	1444/1494	
	1544/1594	
	1644/1694	
Escape route width 180°	Entrance width 120°	Escape route width 120°
925	849	930
975/1025	944/994	980/1030
1075/1125	1044/1094	1080/1130
1175/1225	1144/1194	1180/1230
1275/1325	1244/1294	1280/1330
1375/1425	1344/1394	1380/1430
1475/1525	1444/1494	1480/1530
1575/1625	1544/1594	1580/1630
1675/1725	1644/1694	1680/1730
	Entrance width 120°	
	849	
	994	
	1094	
	1194	
	1294	
	1394	
	1494	
	1694	

Options (depending on unit type)

Construction	
Increase passage height.	
Increase upper part of body.	
Glass ceiling without frame (side panels, 12 mm laminated safety glass).	
Water tray or waterproof cover of outer part of body, made of light metal.	
Insulation of outer upper part of the body.	
Resistance class RC2.	
Resistance class WK3.	
Varied night closures.	
Motor for night closure.	
Monitoring of night closure, notification of status closed or closed and locked.	
Rotating unit, three-leaf (120°).	
T40 rotating unit, P4A laminated safety glass.	
T25 or T40 foldable rotating unit, every leaf is manually foldable, including bolt lock and separate contacts for electrical transmission, up to max. outside diameter of 3000.	
Stainless steel handle horizontal or vertical, installed on door leaf.	
Monitoring of door leaf locking upwards (except -S01) or downwards.	
Floor element; stainless steel floor ring for pre-installation.	
Drive attachment in on-site floor pit or underfloor.	
Stainless steel tub for the floor ring in the outer half (for drainage).	
Clamping rail for fixing on-site sealing foil, measure X = 150 or larger.	
Stainless steel plate, may be perforated, to apply floor covering.	
Stainless steel plate for floor element.	
Coir mats or black rubber mats (optionally equipped with arrow) or carpet as cleaning zone.	
Finish	
AISI 304 stainless steel, satin finish or S8 mirror polished.	
E6 anodised in colour.	
Function	
Running controller to limit speed (recommended).	
SA1 servo positioning drive turns rotating unit at passage speed (started by pushing manually), including electric transmission kit, horizontal and vertical safety strips, key switch to release the unit, emergency release button (reverse button), two emergency stop switches and two Ø 20 buttons for disabled users, optionally with OPL 01.	
SA1 configuration.	
Demand locking BV1.	
SA2 servo positioning drive moves the manually rotated rotating unit into the basic position; including key switch to release the unit, finger protection strips on the bottom of the door leaves and two emergency stop switches, optionally with OPL 02 as well as demand locking BV2.	
Day/night access function, including activation using key switch (demand locking necessary).	
Electrical equipment	
Infrared (except for C03 standard) or radar motion detectors for automatic starting.	
Buttons for disabled users 70 x 70 in console 4 with wheelchair symbol, alternative to the SA1 buttons for disabled users.	
Different consoles.	
Key-operated push button or key switch.	
Operating panels.	
Emergency stop switches with seal cap, instead of the existing ones.	!
Pre-sensors for heavy rotating units, for additional safeguarding of persons requiring special protection.	!
Sensor strips to automatically reduce the rotating speed when someone has been detected by the sensors.	!
Lighting by 2, 3 or 4 LEDs.	

Revolving doors

Rotating unit T25 – 120°

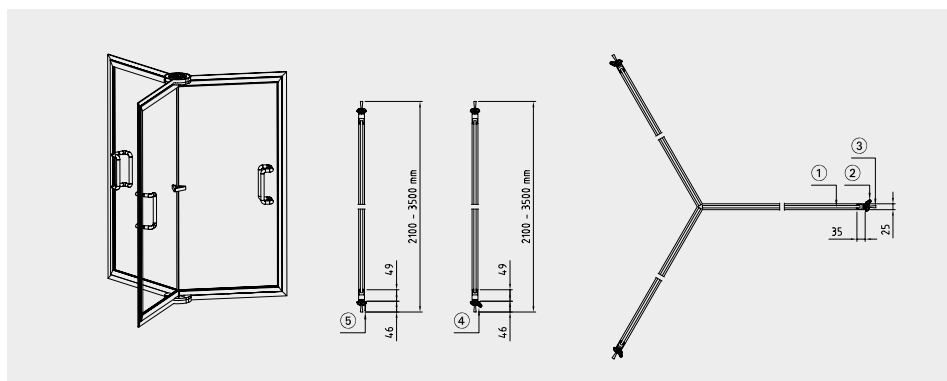
Outside diameter:

Ø 2100 to Ø 3300

1. Toughened safety glass
2. Safety strip
3. Sealing brush
4. Safety strip (for SA1)
5. Finger protection strip (for SA2, N0 and N0-LR)

Rotating unit without centre column.

Profile depth 25 mm.



Rotating unit T25 – 180°

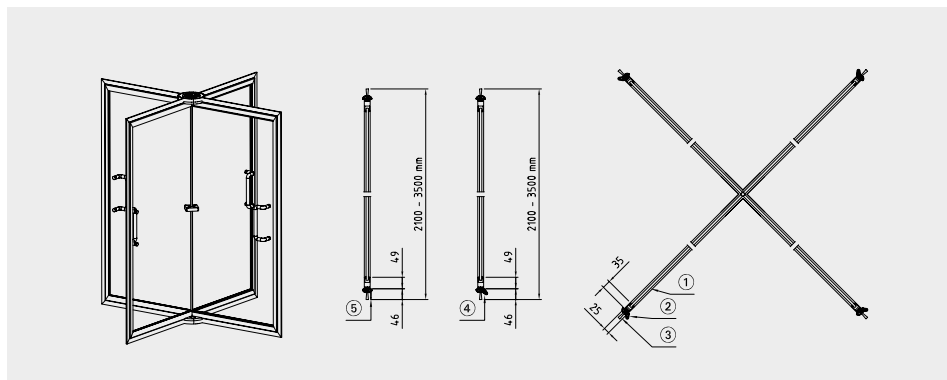
Outside diameter:

Ø 2100 to Ø 3300

1. Toughened safety glass
2. Safety strip
3. Sealing brush
4. Safety strip (for SA1)
5. Finger protection strip (for SA2, N0 and N0-LR)

Rotating unit without centre column.

Profile depth 25 mm.



Rotating unit T40 – 120°

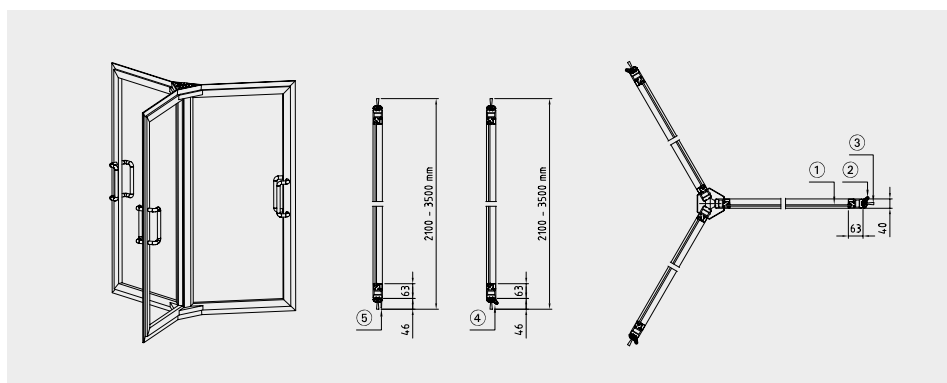
Outside diameter:

Ø 2100 to Ø 3700

1. Toughened safety glass
2. Safety strip
3. Sealing brush
4. Safety strip (for SA1)
5. Finger protection strip (for SA2, N0 and N0-LR)

Rotating unit with centre column.

Profile depth 40 mm.



Rotating unit T40 – 180°

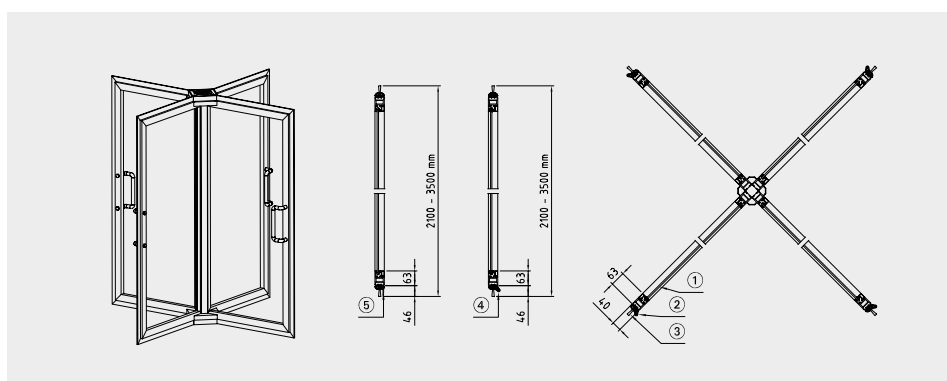
Outside diameter:

Ø 2100 to Ø 3700

1. Toughened safety glass
2. Safety strip
3. Sealing brush
4. Safety strip (for SA1)
5. Finger protection strip (for SA2, N0 and N0-LR)

Rotating unit with centre column.

Profile depth 40 mm.



All dimensions in mm

Rotating unit T56 – 120°¹

– escape route

Outside diameter:

Ø 2100 to Ø 3700

1. Toughened safety glass

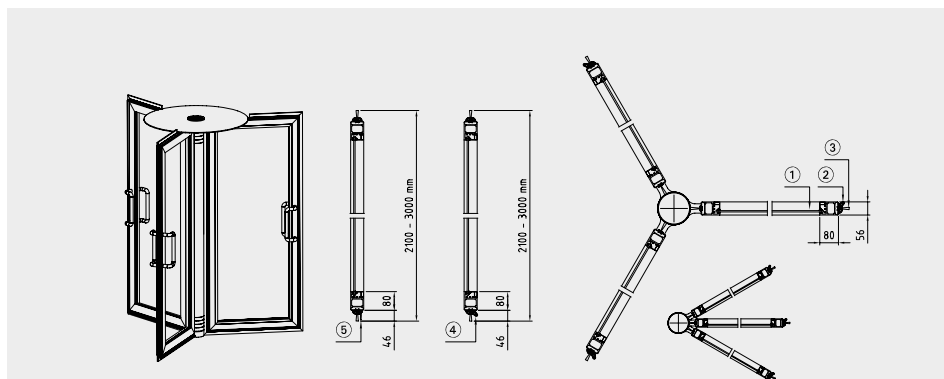
2. Safety strip

3. Sealing brush

4. Safety strip

5. Finger protection strip

Rotating unit with centre column and emergency exit function. Profile depth 56 mm.



Rotating unit T56 – 180°¹

– escape route

Outside diameter:

Ø 2100 to Ø 3700

1. Toughened safety glass

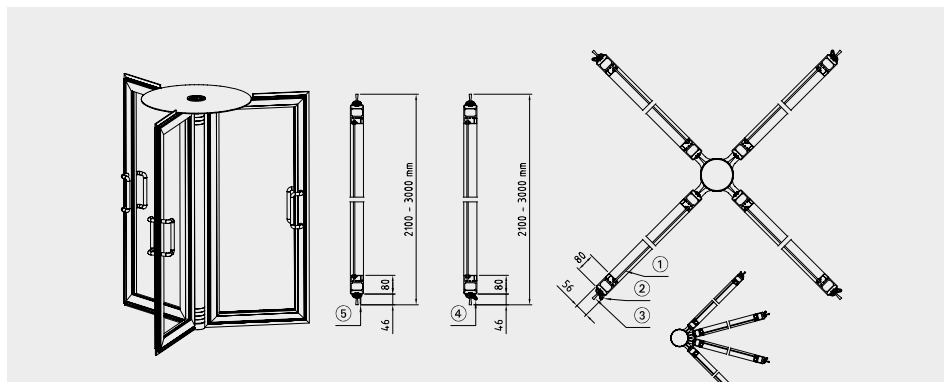
2. Safety strip

3. Sealing brush

4. Safety strip

5. Finger protection strip

Rotating unit with centre column and emergency exit function. Profile depth 56 mm.



Rotating unit T56 – 120°¹

– escape route

Outside diameter:

Ø 3920 to Ø 4920

1. Toughened safety glass

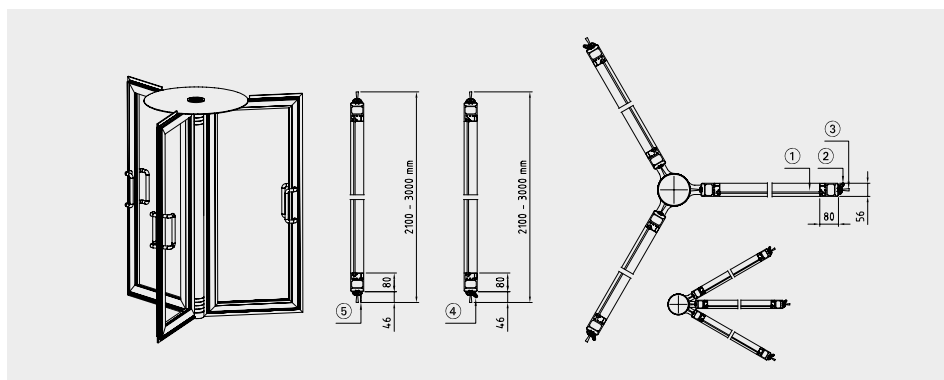
2. Safety strip

3. Sealing brush

4. Safety strip

5. Finger protection strip

Rotating unit with centre column and emergency exit function. Profile depth 56 mm.



Rotating unit T56 – 180°¹

– escape route

Outside diameter:

Ø 3920 to Ø 4920

1. Toughened safety glass

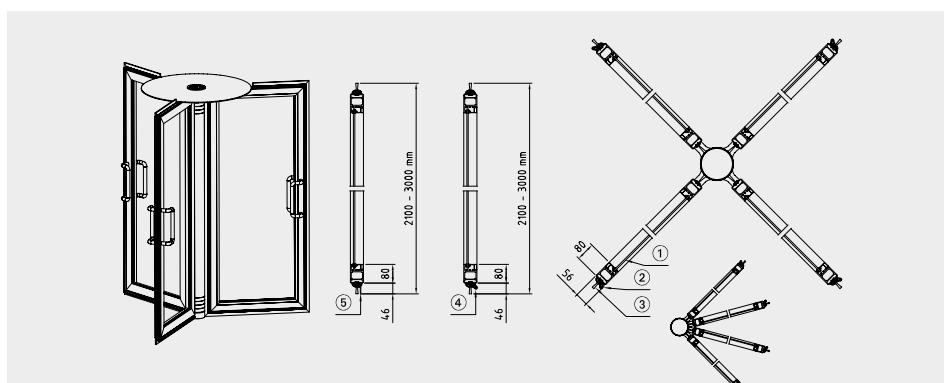
2. Safety strip

3. Sealing brush

4. Safety strip

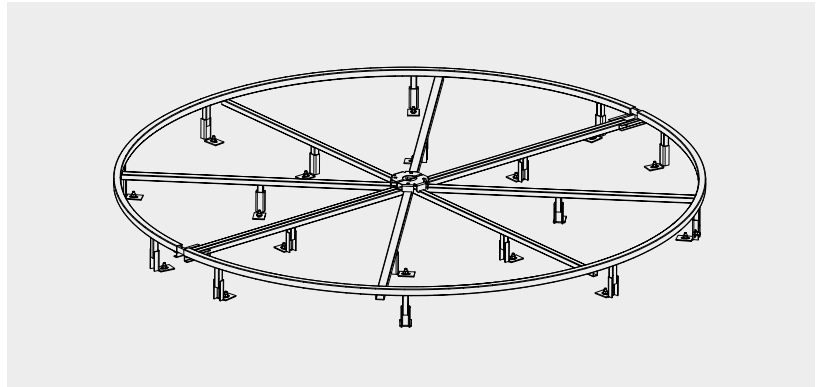
5. Finger protection strip

Rotating unit with centre column and emergency exit function. Profile depth 56 mm.

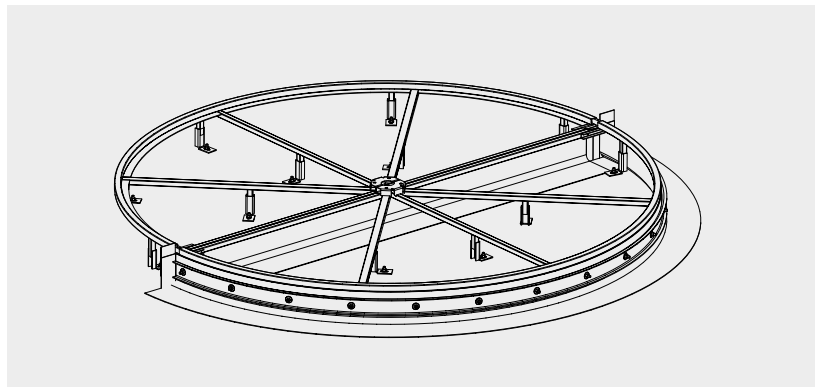


Revolving door floor element

Floor element without stainless steel plate for sealing

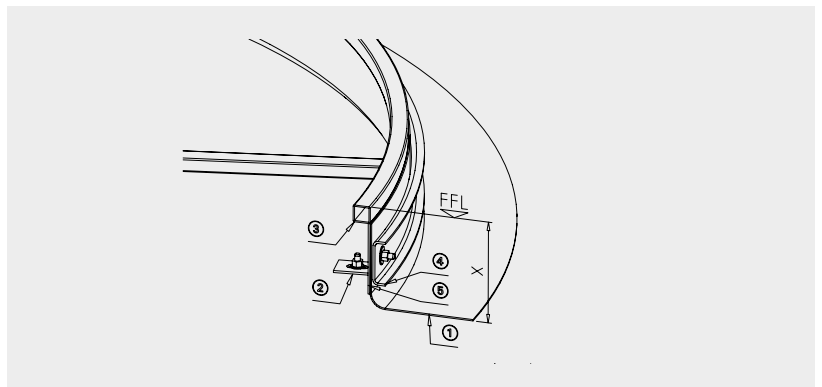


Floor element with stainless steel plate for sealing, measure X = 150 or larger.



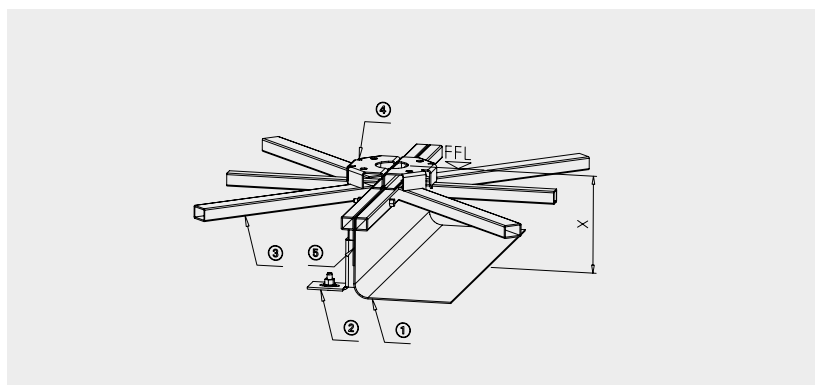
Detail: floor element with sealing foil at the outer radius, measure X = 150 or larger.

1. Sealing foil 300 mm (self-adhesive) or on-site foil
 2. Stainless steel fastening clamp
 3. Continuous stainless steel ring (25 mm)
 4. Clamping rail with M8 welding stud
 5. Adjusting plate
- X: installation depth OK FFL to OK SFL



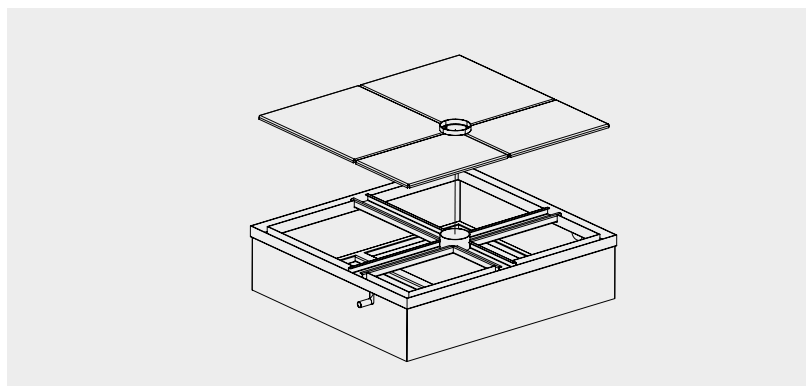
Detail: floor element with sealing foil in facade axis

1. Sealing foil 300 mm (self-adhesive) or on-site foil
 2. Stainless steel fastening clamp
 3. Stainless steel strut for connection and support
 4. Floor bearing fixing
 5. Adjusting plate
- X: installation depth OK FFL to OK SFL

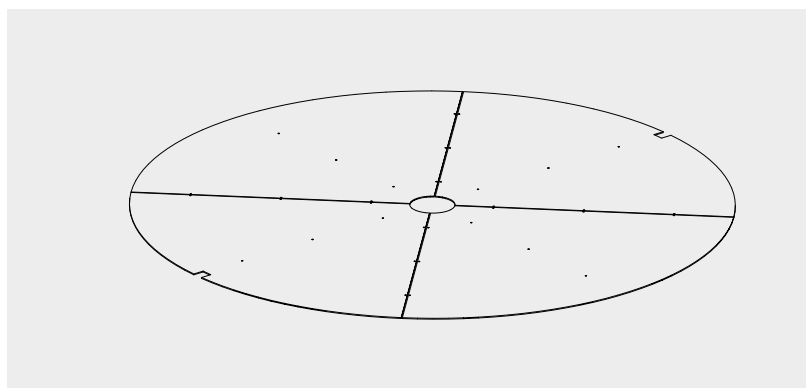


All dimensions in mm

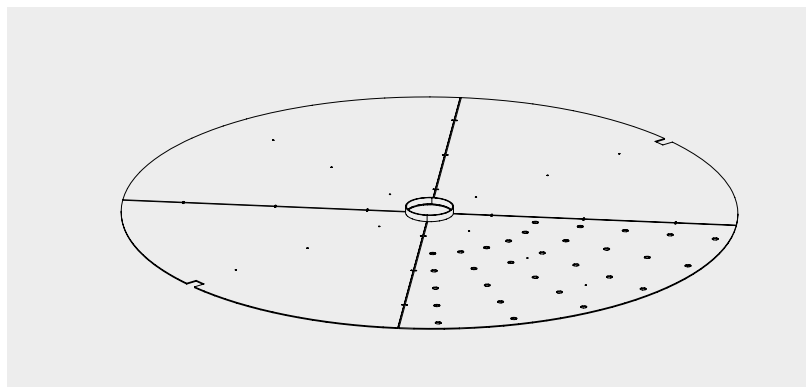
Drive box for floor pit, measure X = 350 or larger



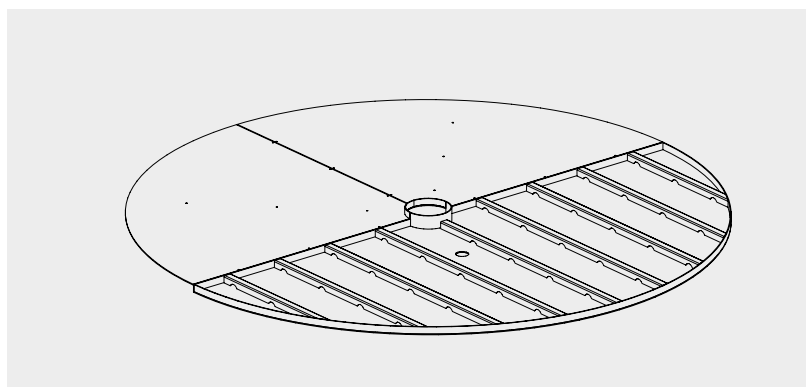
Stainless steel plate for floor element



Stainless steel plate for floor element – perforated (for drainage)



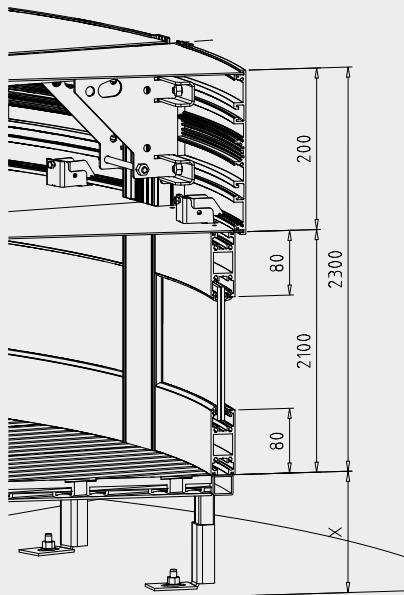
Floor element with water tray



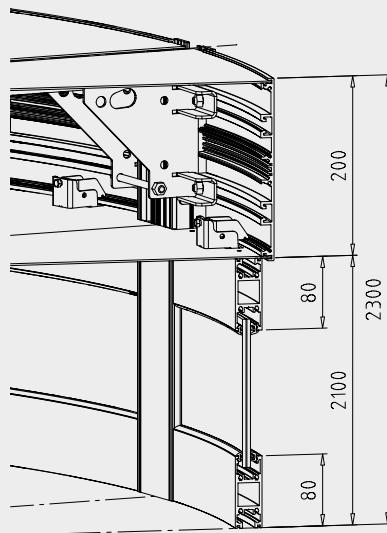
All dimensions in mm

Body variants for revolving doors

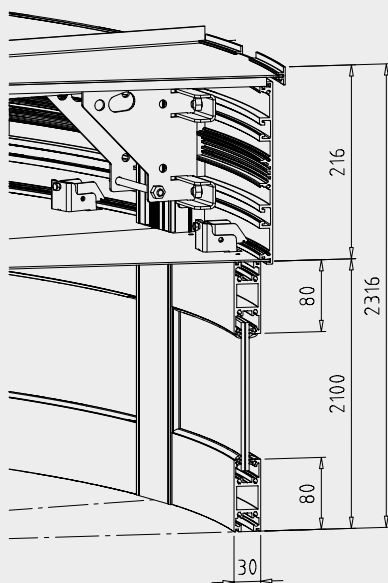
Body with floor element



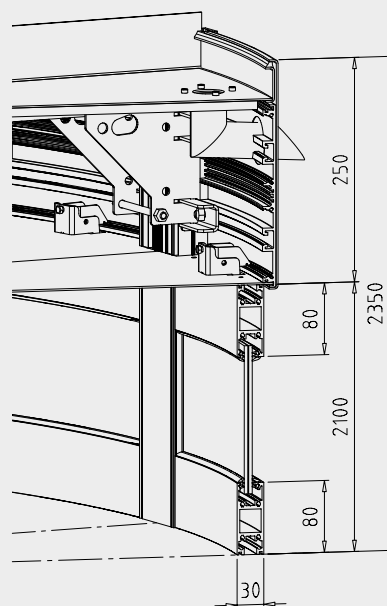
Body with dustproof cover



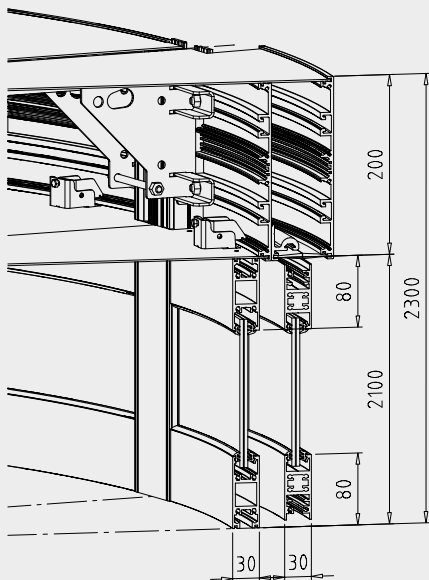
Body with waterproof cover



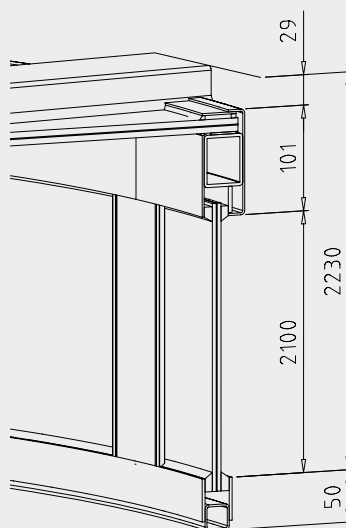
Body with water tray and spout



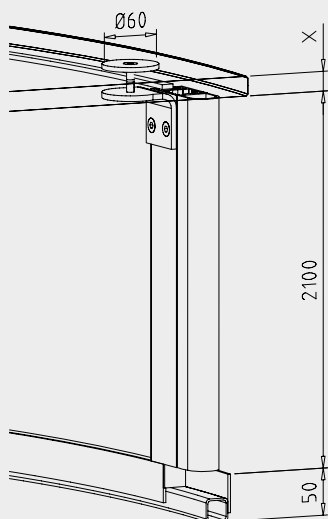
Body with night closure



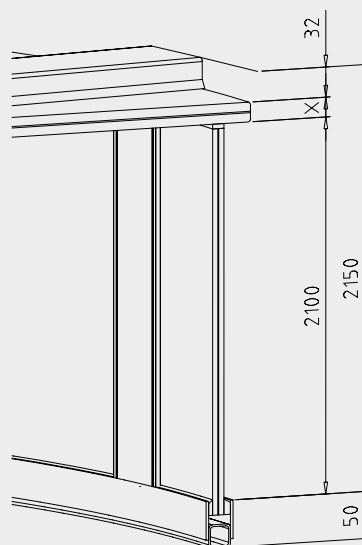
Body – glass ceiling with frame



Body – glass ceiling with point fixing



Body – glass ceiling without frame

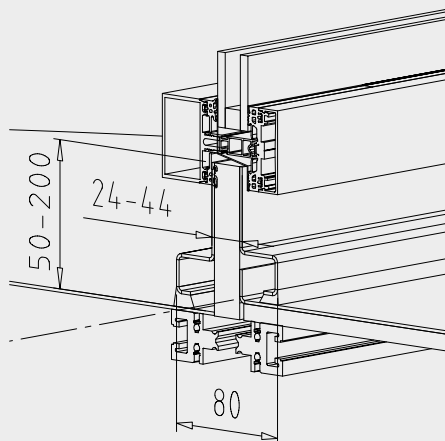


If the RDR-S01 is installed in the facade axis, we recommend providing additional weather protection using a roof with an appropriate downward slope

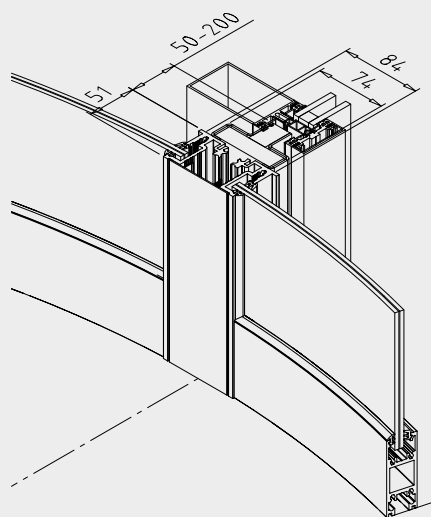
All dimensions in mm

Revolving door connections

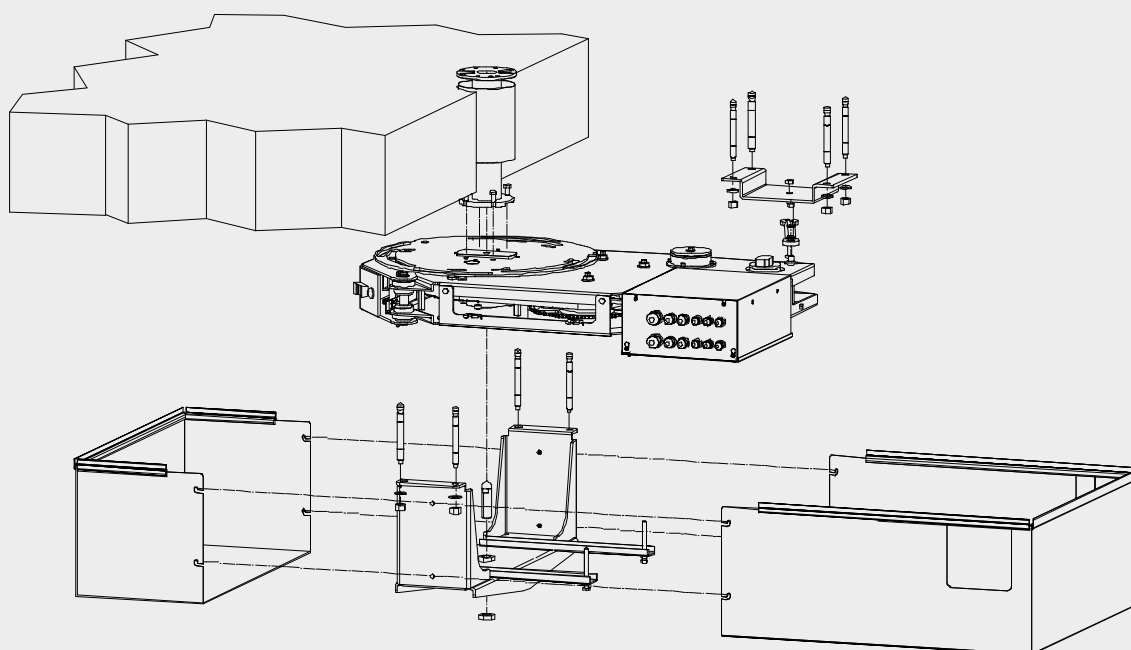
Example of 200 wall connection, top



Example of 200 wall connection, side

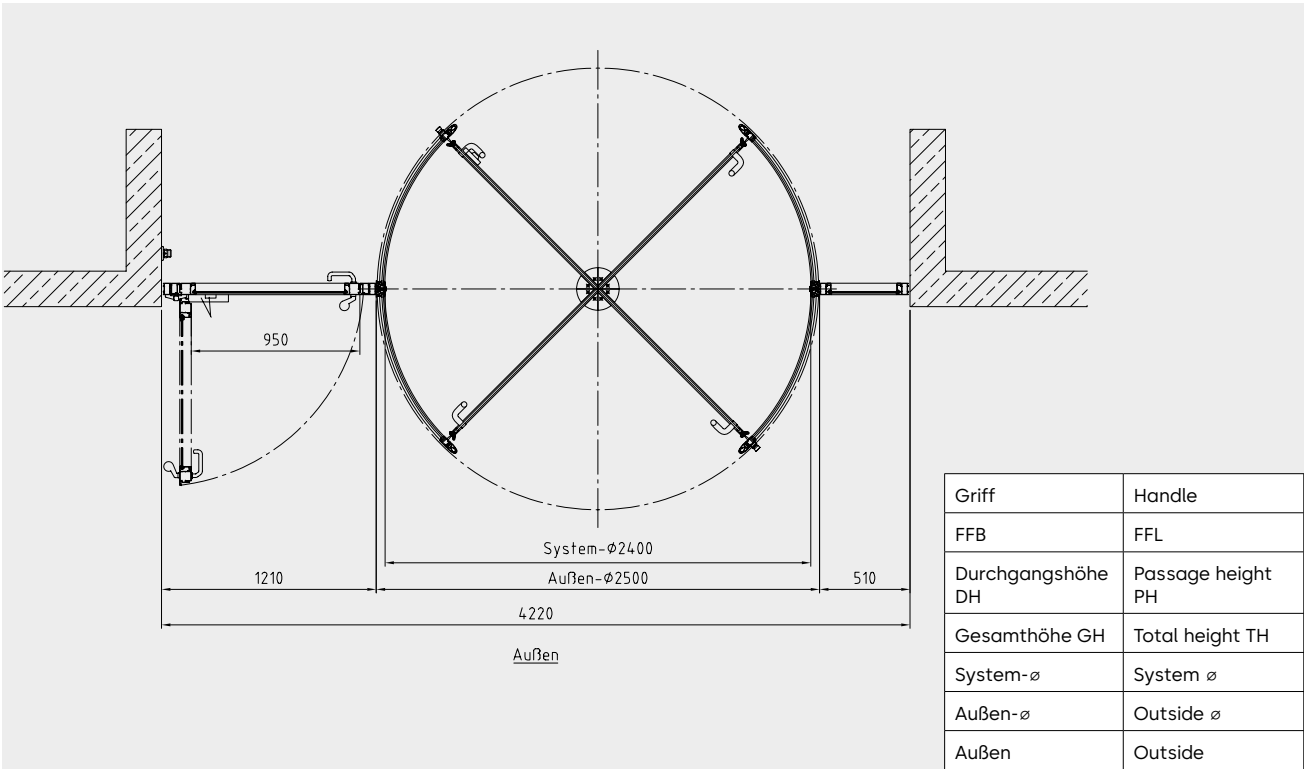
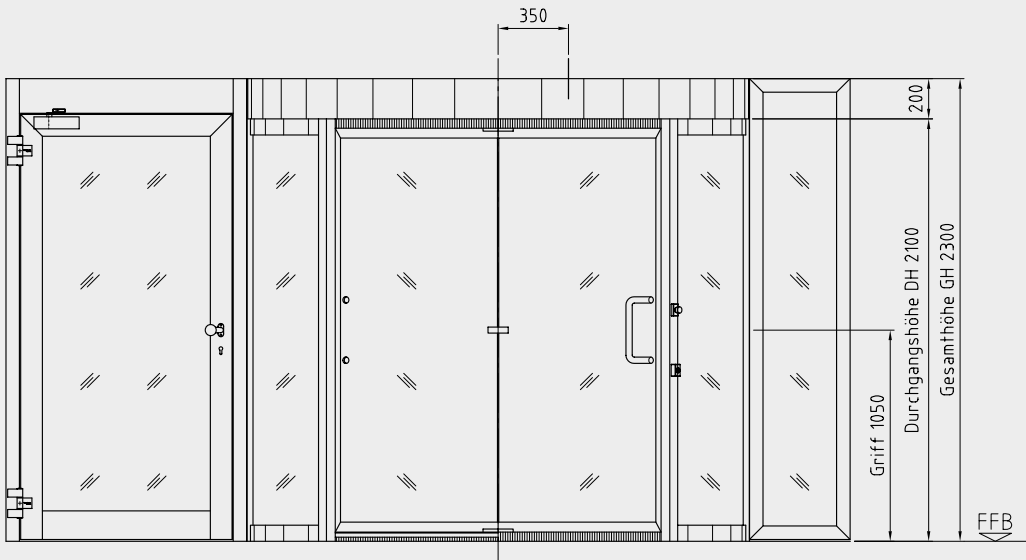


Underfloor drive



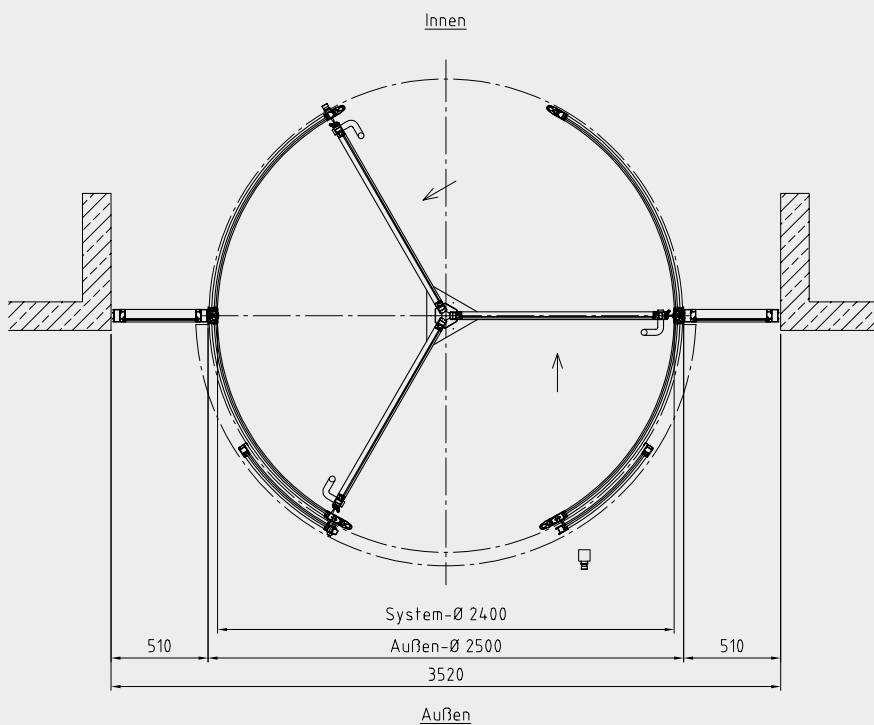
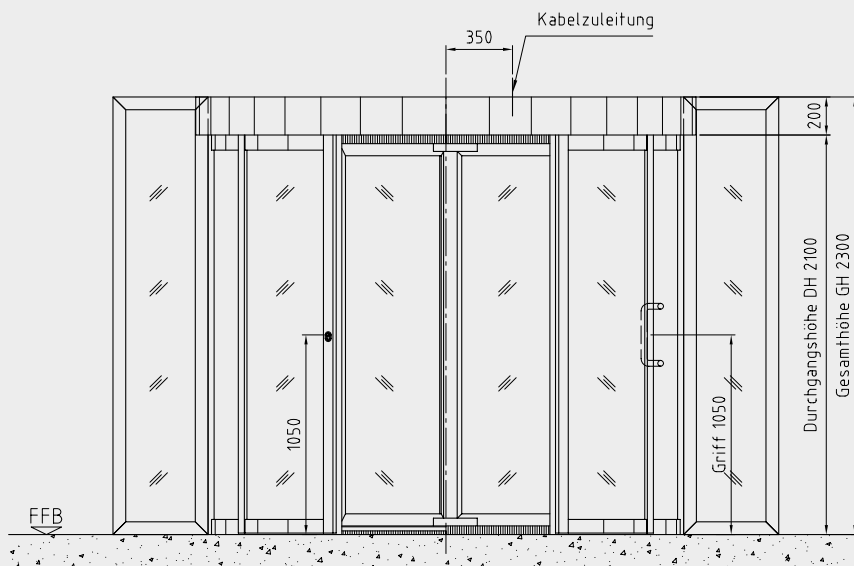
Installation diagrams

Example of Geryon RDR-E01 (rotary cycle 180°), with emergency exit door according to DIN EN 179



Installation diagrams

Example of Geryon RDR-E01 (rotary cycle 120°), with night closure



All dimensions in mm

Space for your notes

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



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