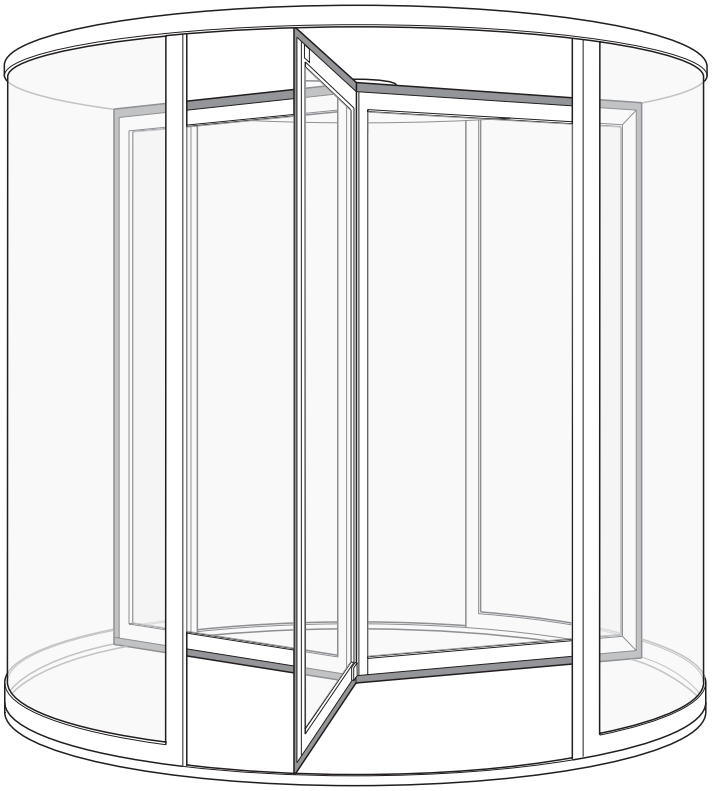


Revo.PRIME revolving door

EN Installation instructions

200770-00

GEZE

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1 Introduction

1.1 Symbols and illustrations

Warning notices
In these instructions, warning notices are used to warn against material damage and injuries.
- ▶ Always read and observe these warning notices.
- ▶ Observe all measures marked with the warning symbol and warning word.

Warning symbol	Warning word	Meaning
	**WARNING**	Danger to persons. Non-compliance can result in death or serious injuries.
	**CAUTION**	Danger to persons. Non-compliance can result in minor injuries.

Further symbols and illustrations
Important information and technical notes are highlighted to explain correct operation.

Symbol	Meaning
	means “important information”; Information on avoiding material damage, understanding a concept or optimising the operation sequences
	means “additional Information”
▶	Symbol for an action: This means you have to do something. ▶ If there are several actions to be taken, keep to the given order.

1.2 Product liability

In compliance with the liability of the manufacturer for his products as defined in the German “Product Liability Act”, compliance with the information contained in this brochure (product information and intended use, misuse, product performance, product maintenance, obligations to provide information and instructions) must be ensured. Failure to comply releases the manufacturer from his statutory liability.

2 Fundamental safety notes

To ensure personal safety, it is important to follow these safety instructions.
These instructions must be kept.

2.1 Intended use

- The Revo.PRIME revolving door is only suitable for use in entrance and interior areas of pedestrian traffic in commercial plants and public areas.
- The Revo.PRIME revolving door must not be used as a fire or smoke protection door.
- The variant of the Revo.PRIME revolving door with break-out leaves is suitable for use on escape and rescue routes.

2.2 Safety notes

- In compliance with Machinery Directive (2006/42/EC), a risk analysis must be performed and the door system identified in accordance with CE Marking Directive 93/68/EEC before the door system is commissioned.
- The mandatory installation, maintenance and repair work must be performed by properly trained personnel authorised by GEZE.
- The country-specific laws and regulations are to be observed during safety-related tests.
- GEZE is not liable for any injuries or damage whatsoever resulting from unauthorised changes to the system.
- GEZE does not accept any warranty for combinations with third-party products.
- Furthermore, only original GEZE parts may be used for repair and maintenance work.
- The connection to the mains voltage must be carried out by a qualified electrician. Perform the power connection and protective earth connection test in accordance with VDE 0100 Part 610.
- Before connecting the on-site power supply circuit, a ground connection must be completed (connect to equipotential bonding).
- Use an on-site miniature circuit breaker with locking option as the line-side disconnecting device, the dimensioning of which is matched to the type, cross-section, type of routing and ambient conditions of the on-site power supply circuit (all-pole disconnection).
  GEZE recommends separate fuse protection for the door drive.
- Protect the keypad programme switch (TPS-KDT) against unauthorised access.
- Observe the latest versions of guidelines, standards and country-specific regulations, in particular:
  - ASR A1.7 “Doors and gates”
  - EN 16005: 2012 “Power operated pedestrian doorsets – Safety in use – Requirements and test methods”
  - VDE 0100- 600 “Installation of low-voltage systems - Part 6: Tests”
  - Accident-prevention regulations, especially DGUV A1 “General regulations” and BGV A2 “Electrical installations and equipment”
  - DIN EN 60335-2-103 “Household and similar electrical appliances - Safety; Particular requirements for drives for gates, doors and windows”
- Use lifting tools adapted to the weights of the system parts.
- Check the weight distribution in the ceiling construction before lifting.
- Observe the Load Handling Regulation (LasthandhabV).

The following table lists the weights of the individual components depending on their diameter (passage height here 2500 mm, canopy height 75 mm, without air curtain).
Other equipment options and canopy heights may deviate:

	Floor ring	Side panel	Ceiling structure	Door leaf	Drive unit	Ceiling panels
Ø 2400	25 kg	70 kg	70 kg	70 kg	80 kg	100 kg
Ø 3000	35 kg	90 kg	90 kg	85 kg	80 kg	140 kg
Ø 3600	50 kg	105 kg	120 kg	100 kg	80 kg	200 kg

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

- Children shall not play with the appliance.
- Cleaning and maintenance shall not be carried out by children without supervision.
- The door system must be unplugged from the mains connection during maintenance and cleaning work.
- No persons may pass through the door system during repair or maintenance work.

2.3 Safety-conscious working

- Secure workplace against unauthorised entry.
- Watch the swivelling range of long system parts.
- Never carry out work with a high safety risk (e.g. installing the drive, cover or door leaf) while alone.
- Secure the cover/drive panels against falling.
- Use only the cables specified on the cable plan provided. Cables must be shielded in compliance with the wiring diagram.
- Secure loose, internal drive cables with cable ties.
- Before working on the electrical system:
  - Disconnect the drive from the 230 V mains and check to ensure that it is not supplied with power.
  - Disconnect the control unit from the 24 V rechargeable battery.
  - Note that if an uninterruptible power supply (UPS) is used, the system will still be supplied with voltage despite the fact that the power supply is disconnected.
- Always use insulated wire-end ferrules for wire cores.
- Attach safety stickers to glass leaves (Mat. no. 136518).
- Danger of injury with opened drive. Hair, clothing, cables, etc. can be drawn in by rotating parts!
- Danger of injury caused by unsecured crushing, impact, drawing-in or shearing spots!
- Danger of injury due to glass breakage!
- Danger of injury due to sharp edges in the drive!
- Danger of injury during installation through freely moving parts!
- Use ladders or suitable protective equipment when working at height.

Working on the air curtain

- Use suitable lifting tools when installing the air curtain.
- The air curtain must be connected by a specialist company.
- When working on the air curtain, watch out for sharp edges and elevated temperatures. Observe and comply with the manufacturer's specifications.

2.4 Inspection of the installed system

Measures for protection and prevention of pinching, impact, shearing or drawing-in spots:

- ▶ Complete the check points according to the check list in the document “Commissioning and service”.
- ▶ Check the function of safety sensors and movement detectors.
- ▶ Check protective earth connection to all metal parts that can be touched.

2.5 Environmentally conscious working

- When disposing of the door system, separate the different materials and have them recycled.
- Do not dispose of batteries and rechargeable batteries with household waste.
- Comply with the statutory regulations when disposing of the door system and the batteries/rechargeable batteries.
- Dispose of silicone residue according to local official regulations.

3 Tools and aids

3.1 General tool set

- Tape measure
- Marking pen
- Torque spanner
- Allen key in common sizes - including 7 mm
- Open-ended spanner in common sizes
- Screwdriver set
- Personal protective equipment (PPE)
- Safety shoes min. class 3
- Helmet
- Ladder or protective scaffolding
- Torx wrench T× 20
- Side-cutting pliers
- Crimping pliers for cables
- Electric drill
- Mitre saw
- Level
- Protective glasses
- Cut protection work gloves level 3
- Suitable work clothing

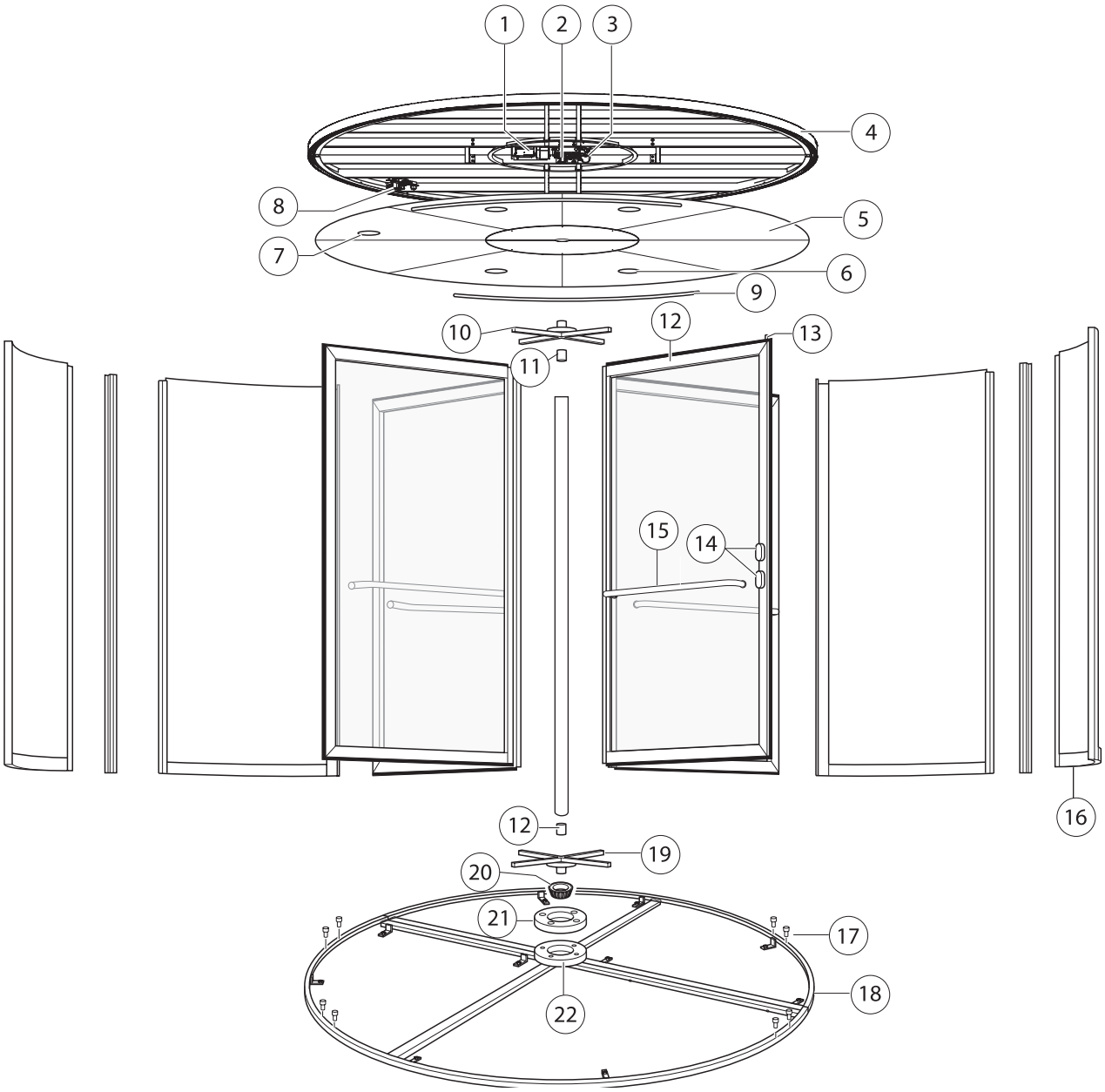
3.2 Special tools

Tool	Size/remark
GEZEconnects	
Diagnostic device GEZE ST220	
Ring force gauge	
Hammer drill	
Welding equipment	
Cordless screwdriver	
Thread cutter for M4–M8	and corresponding drills
Specialised tool: combination spanner, angled, size 13 mm	ID no. 86838
Glass suction device	for curved glass surfaces
Tension belts	4 piece with sufficient length (4–5 m)
Tested lifting tools	e.g. Genie Hoist 3.8 or GH 5.6 (min. lifting capacity 160 kg; max. lifting height 3.8 m or 5.6 m)
Levelling device	
Ladder	
Ceiling lift	
Lifting tool	
Pneumatic punch	
Carrying strap	
Small scaffolding unit	
Barrier tape	
Cable reel with GFCI	

3.3 Consumables

Designation	Detailed description/Remark
Silicone/silicone spray	▫ Permitted for glass installation (laminated safety glass) ▫ Check local specifications to determine whether silicone/silicone spray is permitted
Soap water	
Lithium soap universal lubricant on a mineral oil basis for the bearings	e.g. Würth multi-purpose grease I
Suitable underlay material/evening-out material for floor ring	

4 Set-up



1	Control unit	12	Side-hung leaf
2	Bearing above	13	Rod locking
3	Motor gear unit	14	Rod locking/bolt lock
4	Ceiling canopy	15	Handle
5	Ceiling panels bottom	16	Side panels
6	Openings for LED lights (optional)	17	Cylinder head screws for side panel profiles
7	Opening for automatic locking mechanism (optional)	18	Floor ring
8	Automatic locking mechanism (optional)	19	Lower turnstile
9	Cover panels	20	Floor bearing
10	Upper turnstile with shaft	21	Bearing ring/bearing housing below
11	Insert sleeve centre rod	22	Bearing plate/spacer

5 Installation

5.1 Preparations to be made on-site

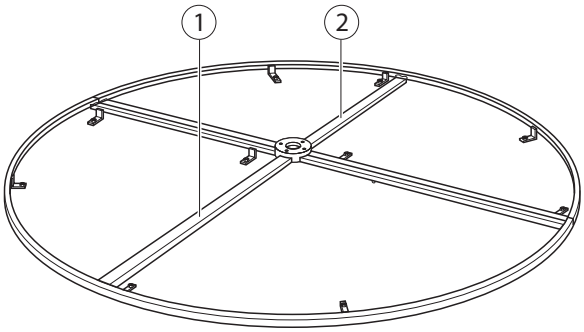
Check the preparations made on-site by the customer to ensure proper installation:
- Type and load capacity of the façade construction or suspending frame.
- Evenness of the installation surface.
- Cable plan requirements.
- Observe installation height/metre level mark at the construction site.

5.2 Mounting the Revo.PRIME revolving door

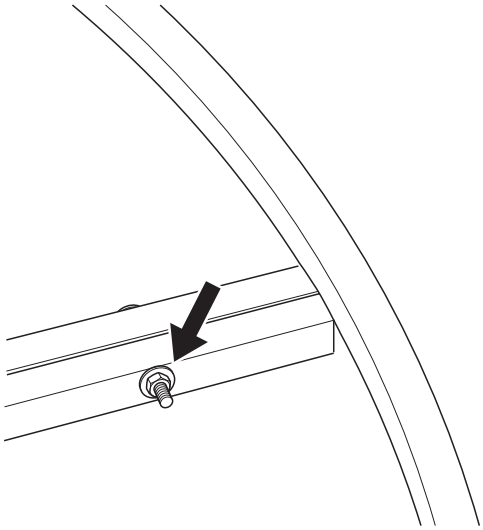
- ▶ Secure workplace against unauthorised entry.
- ▶ Always work with a second person.
- ▶ Use a stepladder or stepstool.
- ▶ Keep inside area of track clean.

5.2.1 Mounting the floor ring

- ▶ Lay 2 floor ring halves (1) and (2) together.
- ▶ Determine the position of the floor ring.



- ▶ Screw the 2 floor ring halves together using screws, nuts and washers.

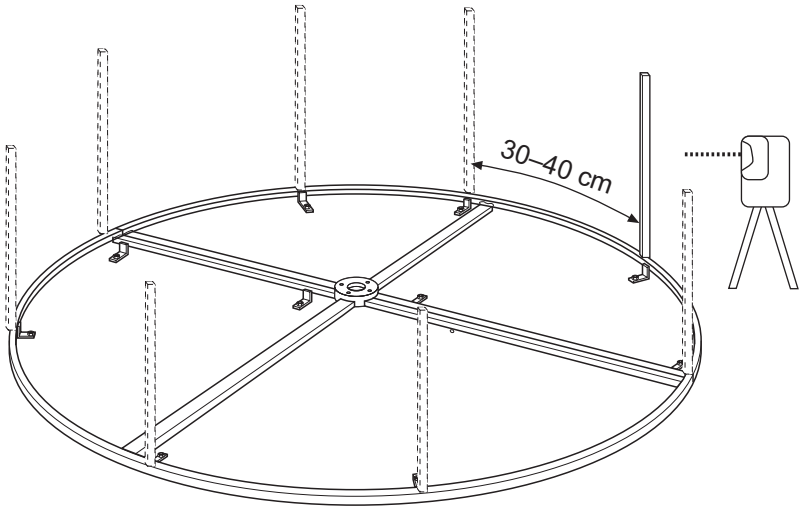


5.2.2 Aligning the floor ring

- In order to ensure trouble-free functioning of the Revo.PRIME revolving door, the floor ring must be aligned perfectly level (±1 mm).

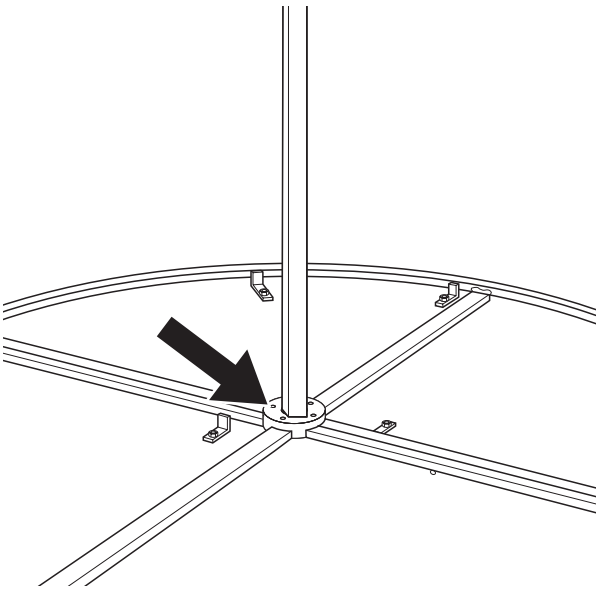
Top edge of finished floor level = Top edge of floor ring

▶ Align the floor ring every 30–40 cm using a levelling device and underlay it.



▶ Align the drive box as well for underfloor installation, see chapter 6.9 Revolving door in underfloor version (UFA) on page 50.

▶ Aligning the centre of the floor ring:
The centre of the floor ring has to have the same height as the outer floor ring (height of centre = height of outer edge).



It is optionally possible to mount the Revo.PRIME revolving door without the floor ring if the finished floor level has a sufficient load-bearing capacity.

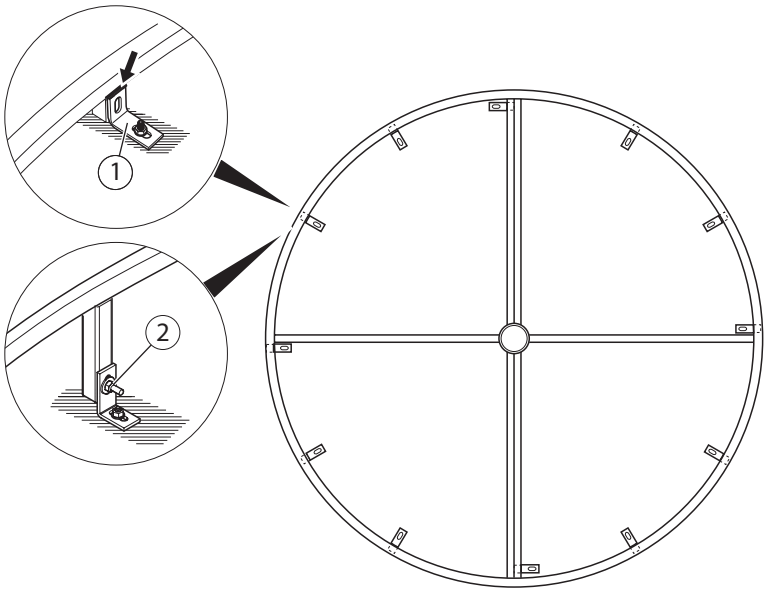
- The installed floor ring must be protected against loading until the screed is poured.
- The visible stainless steel surface must be protected with tape!

5.2.3 Fastening the floor ring to the subsurface

- ▶ Align the bracket (1) to the floor ring and screw it to the subsurface.
- ▶ Align the height of the floor ring once more at these points.
- ▶ Weld the bracket (1) to the base of the floor ring.
- ▶ Optional: Screw the bracket (1) to the floor ring with the screw (2).

Option:

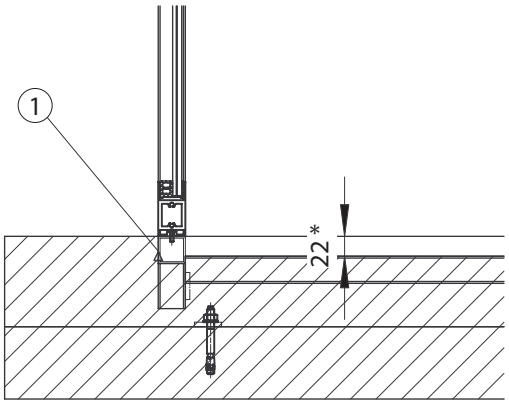
- ▶ Mount the protective plates at BO systems.



5.2.4 Filling the floor ring space with screed

- ▫ Take the screed height in the floor ring into account. The dimension of 22 mm in the drawing below refers to the standard entrance mats from GEZE.
- ▫ GEZE recommends sealing the surface of the screed in interior areas.

- ▶ Fill the floor ring space (1) with screed.



* refers to the standard GEZE entrance mats

Before continuing system installation, the floor ring must be checked to ensure proper dimensions.

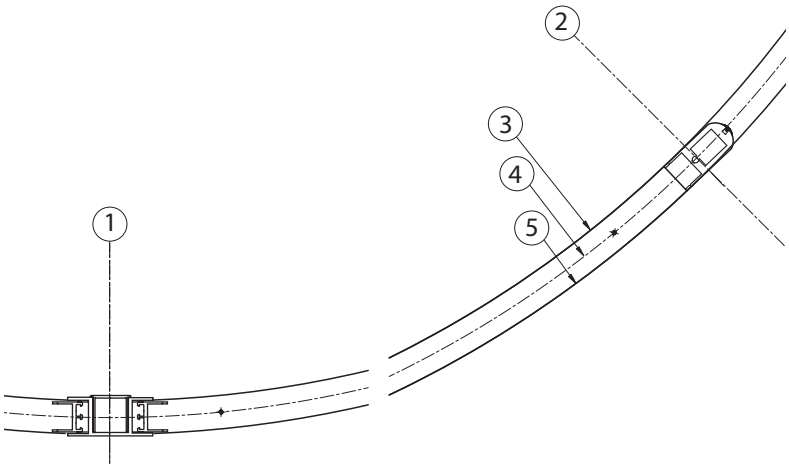
5.2.5 Installation without floor ring

The self-supporting drum structure of the Revo.PRIME revolving door can be mounted directly on the top edge of the finished floor in certain circumstances.

Installation without a floor ring is only permitted if the finished floor level is sufficiently load-bearing and even. Not possible for the all-glass, break-out and RC2 versions.

The placement of the mounting holes for the side panels is determined in three steps:
- Determine the centre of the door system.
- Mark the interior radius (3) of the side panels on the finished floor level.
- Determine the mounting points for the side panels.
  - 3-leaf doors 60°
  - 4-leaf doors 45°

1 System axis
2 Passage axis
3 Interior radius
4 Drilling radius for side panel attachment points
5 Exterior side panel radius



Determine the centre of the door system

▶ Precisely determine the centre of the door system and mark.

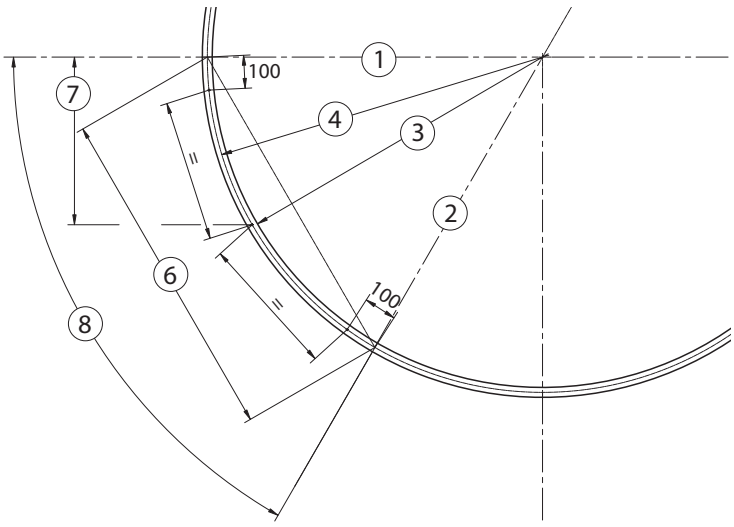
Mark the interior radius

▶ Mark the drilling radius for the side panel mounting points (4) from the centre of the door system.

Determine the mounting points for the side panels for 3-leaf door systems

▶ Determine the mounting points for the side panels based on the system axis (1) and the passage axis (2) according to the sketch.

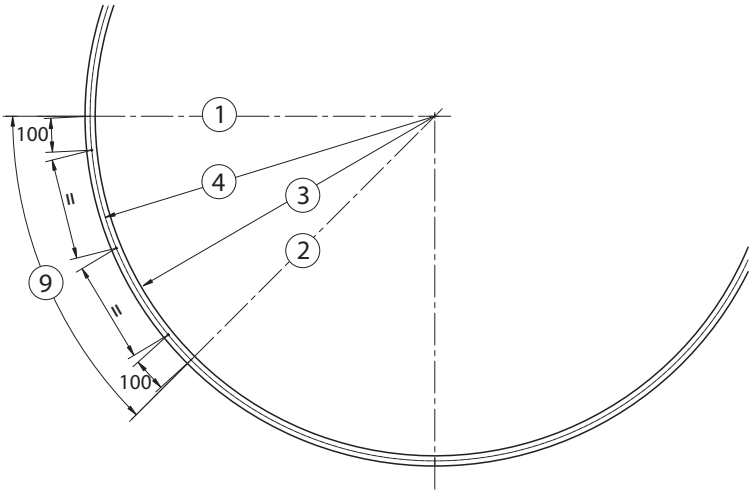
1 System axis
2 Passage axis
3 Interior radius
4 Drilling radius for side panel attachment points
5 Exterior side panel radius
6 Line length = drilling radius (4)
7 Line length/2
8 Arc size = 0.5 × floor ring/3



Determine the mounting points for the side panels for 4-leaf door systems

▶ Determine the mounting points for the side panels based on the system axis (1) and the passage axis (2) according to the sketch.

1 System axis
2 Passage axis
3 Interior radius
4 Drilling radius for side panel attachment points
9 Arc size = 0.5 × floor ring/4

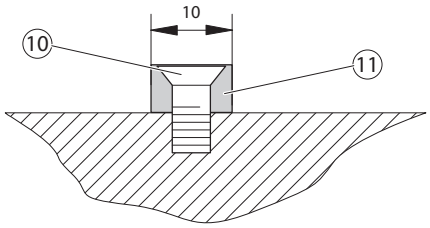


Attach floor blocks or M6 hex screws with 10 mm head width to the floor

▶ Screw floor blocks (11) into the floor with countersunk screws (10).

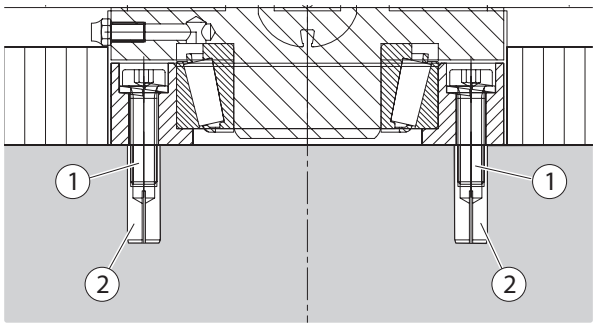
Alternatively:

▶ Screw M6 hex screws with 10 mm head width into the floor.



Attach floor bearing housing

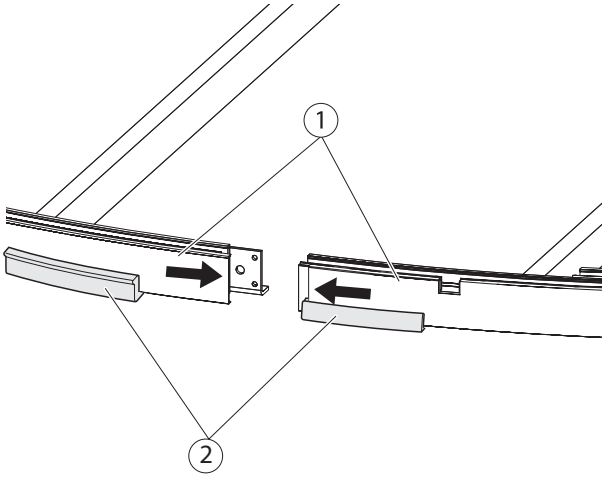
▶ Attach floor bearing housing to the finished floor, e.g. using M8 knock-in anchors (ID 121724) (2) and associated screws, e.g. M8 × 34/40 mm (1).



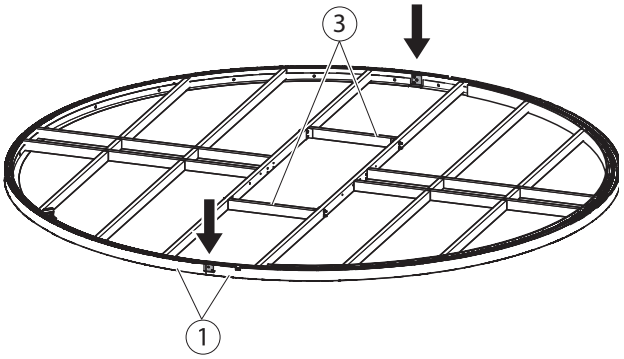
5.2.6 Mounting the ceiling canopy

▶ When mounting the ceiling canopy use supports (2).

▶ Connect the 2 half-shells (1) of the ceiling canopy.



▶ Screw the 2 half-shells (1) (see arrows).
▶ Check the radius of the ceiling construction. Mount 2 spacers (approx. 4–5 mm) if necessary between the halves of the ceiling on the canopy.

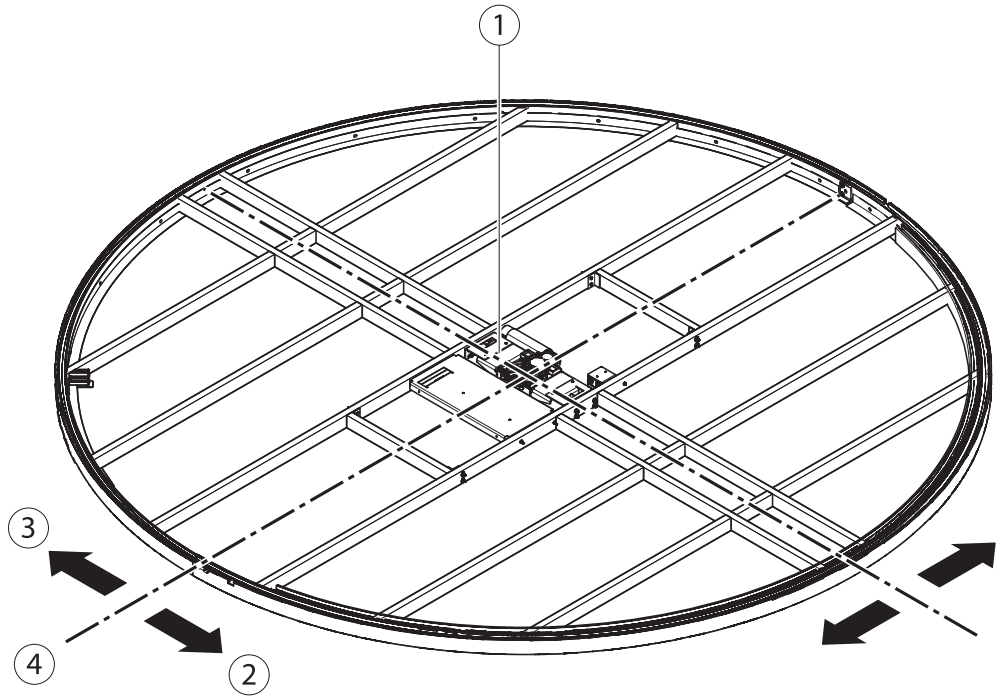


For larger systems:
▶ Place the 2 bars (3) with cross bars into the mounted half-shells.

5.2.7 Mounting the drive unit

The drive unit (1) can be supplied pre-mounted or separately.

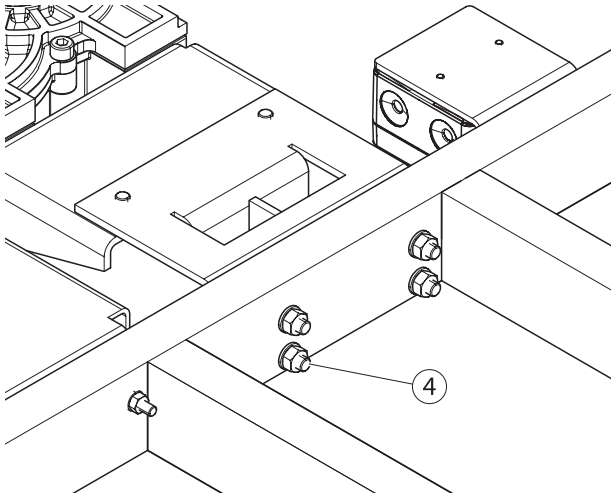
▶ Mount the drive unit (1) centrally to the system axis (4).



2 outside
3 inside

The system axis often also corresponds to the façade axis.

▶ Screw the drive unit (1) to the bars using 8 screws (4).

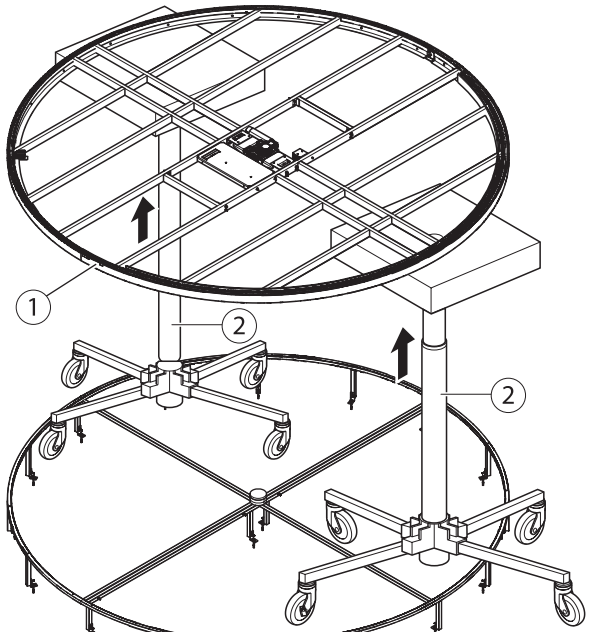


5.2.8 Lifting the ceiling canopy

WARNING!
The ceiling canopy is very heavy (approx. 200 kg).
Risk of injury due to falling ceiling canopy.
- Only lift the ceiling canopy by means of suitable aids (e.g. pneumatic press).
- Do not stand under the raised ceiling ring.
- Check the weight and weight distribution in the ceiling construction before lifting!
- Use lifting tools adapted to the weight of the ceiling construction.



- Use lifting tools (2) in the passage area and raise the ceiling canopy (1) at least 4 cm over the side panel height.

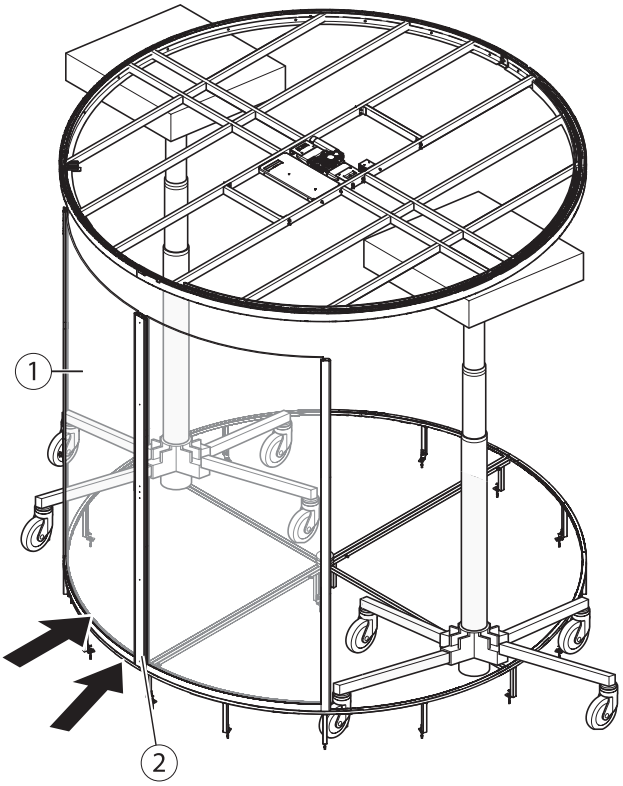


5.2.9 Insert the side panel

When subsequently glazing the side panels, the rules for using glazing blocks (see Gluske “Klotzfibel” glass installation guide) must be observed.

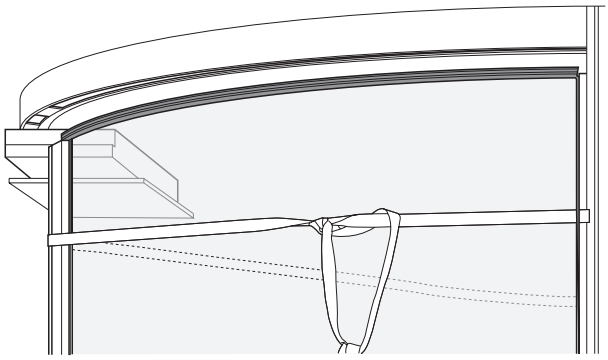
- Insert and align the side panels (1) into the blocks in the floor ring.
- Glue the glazing packers into the side panel joint.
- Insert the side panel joint (2) between the side elements.
- Attach adhesive seals under the external side panels and also under the profiles to seal against non-pressurised water (see arrow).





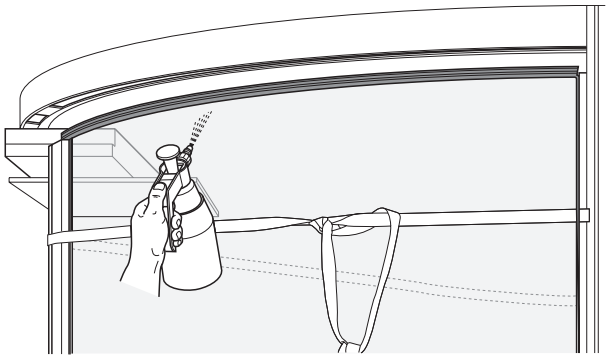


- Secure the inserted side panels against falling over by using a strap in the upper third.



- Spray soap water or silicone spray onto the upper rubber of the side panels and ceiling canopy.
- Lower the ceiling canopy carefully onto the side panel profiles.
- Insert 2 glazing packers (min. 2 mm).

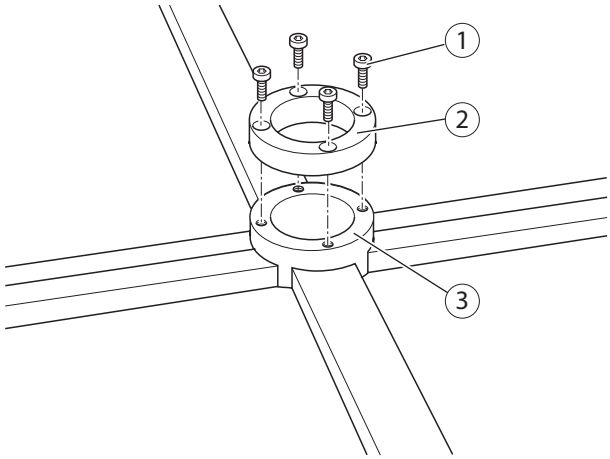
The ceiling canopy has to rest evenly on all the side panel profiles.



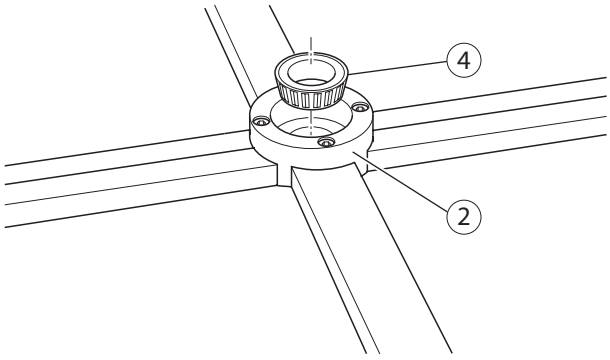
- If the glass has high tolerances, black silicone or wet glue may be used as an alternative to the rubber seal.

5.2.10 Inserting the floor bearing

- Screw the bearing ring (2) to the bearing plate (3) using the 4 screws (1).
- Grease the bearing housings of the bearing ring (2) well.



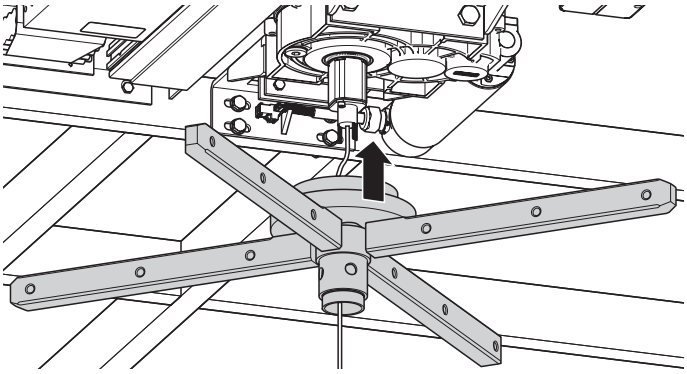
- Grease the floor bearing (4) well and insert it into the bearing ring (2).



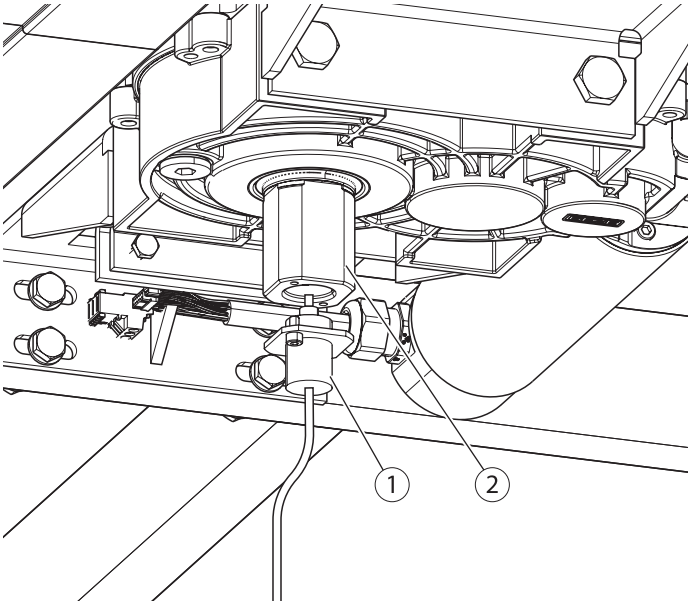
5.2.11 Mounting the collector ring

WARNING!
Danger of injury through falling top turnstile!
- Secure the upper turnstile against falling down before inserting the first door leaf.

- Fit the upper turnstile.



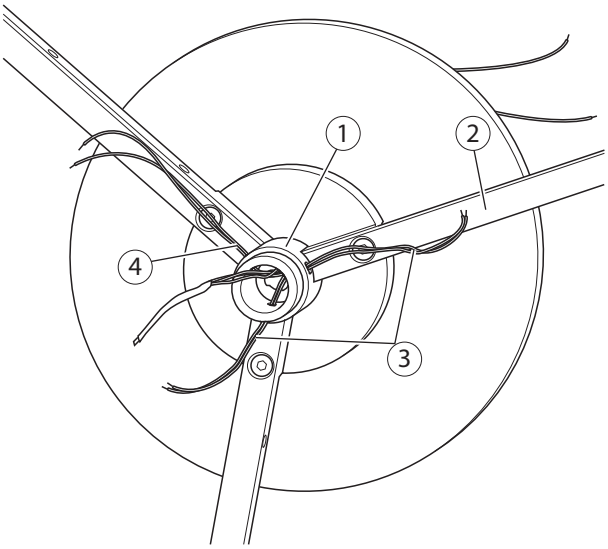
- Screw the collector ring (1) to the bearing shaft (2) of the turnstile.



5.2.12 Mounting the centre rod retainer

- Slide the centre rod retainer onto the top turnstile.
- Thread 2 cables (4) each for the mobile safeguarding device through the turnstile (2) and the centre rod retainer (1).

The cable guide only runs at the top in the carrier axles with the “mobile safeguarding device” option.

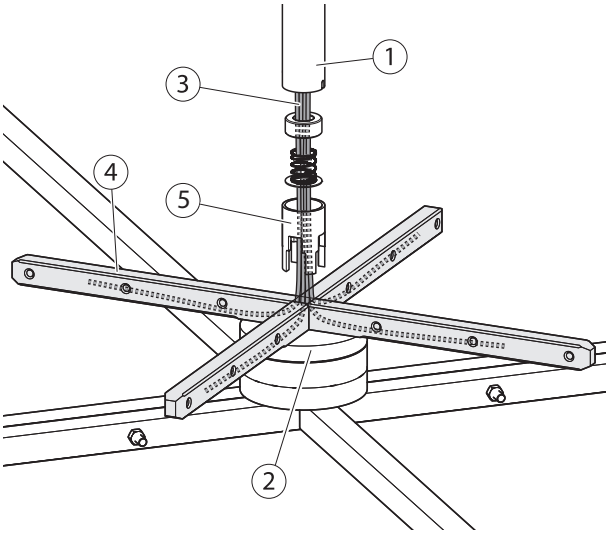


5.2.13 Mounting the centre rod below

- Insert the centre rod into the upper turnstile from below (1).

When inserting the centre rod, make sure the collector ring does not become damaged.

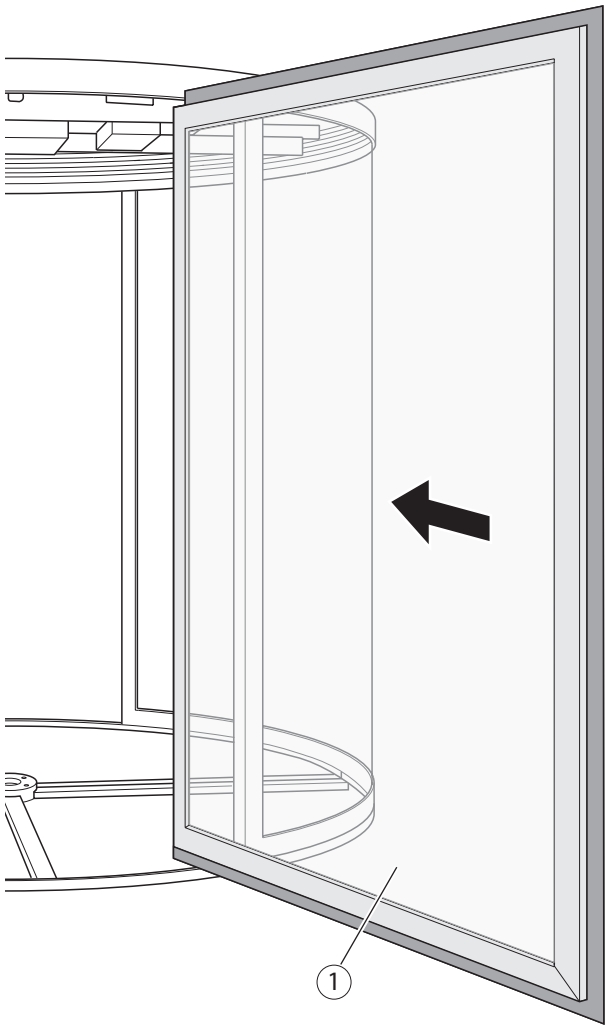
- Route the cable (3) through the centre rod (1) and thread through lock parts (pressure sleeve, spring, pressure disc and push-in sleeve).
- Thread in the lower turnstile (4).
- Press the spring-loaded pressure disc (5) downwards and latch the centre rod in place.



5.2.14 Mounting the side-hung leaves

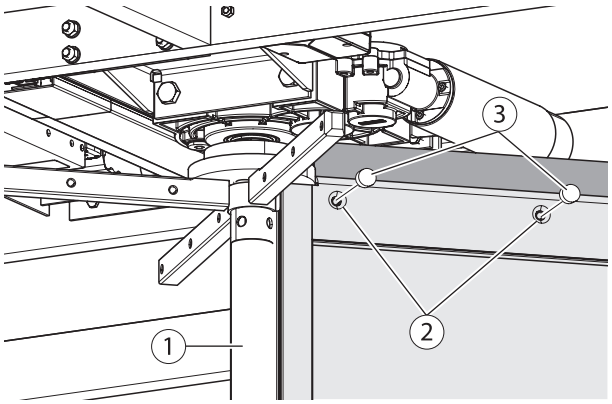
- Insert the side-hung leaf (1).

Glazing blocks must be used for glazing in side-hung leaves on the construction site according to the blocking rules (see Gluske “Klotzfibel” glass installation guide).



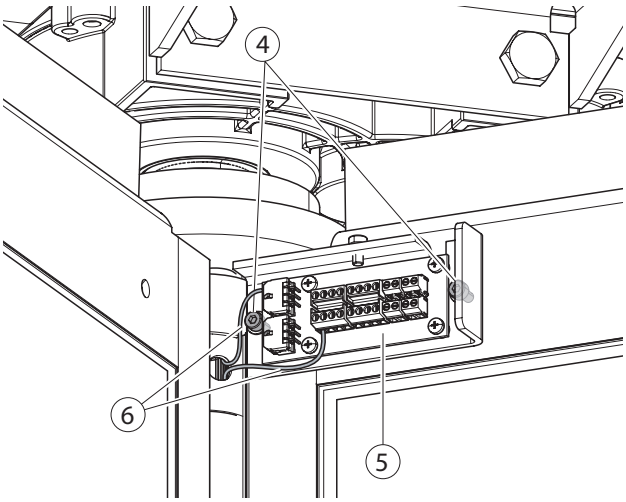
5.2.15 Fastening the side-hung leaves

- ▶ Screw the side-hung leaves at the top and bottom with 2 screws each (2) onto the turnstile.
- ▶ Insert the 2 cover caps (3) (accessories).



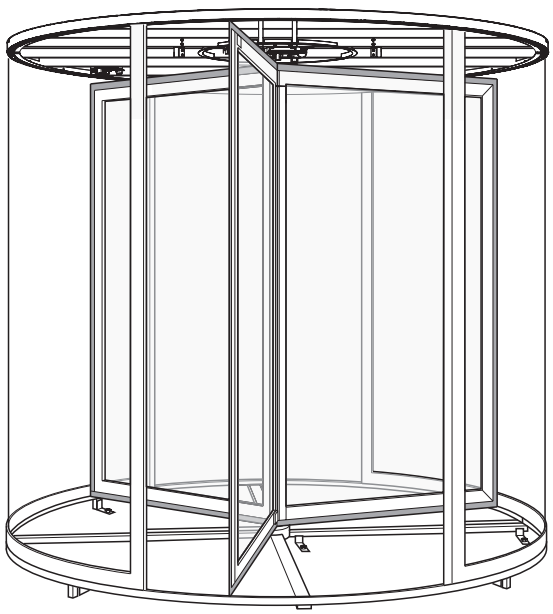
- ▶ Screw the circuit board DCU604 (5) to the side-hung leaf using 2 screws (4).
- ▶ Connect the 2 cables (6) of the collector ring to the circuit board.

The DCU604 circuit board (5) can also be delivered separately.



The centre rod (1) can be turned to cover existing drill holes.

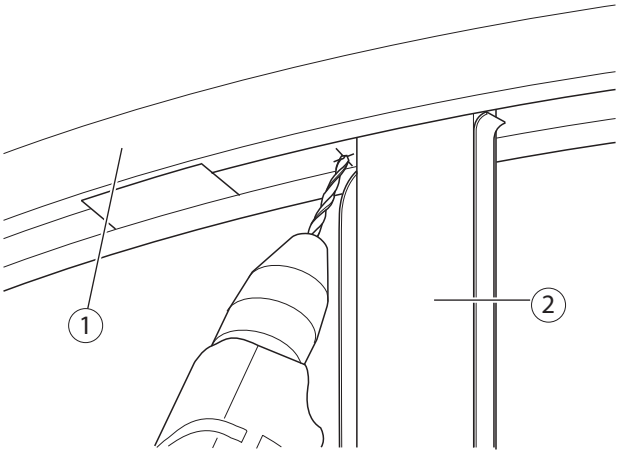
- ▶ Mount the other side-hung leaves (3-leaf/4-leaf) in the same manner.



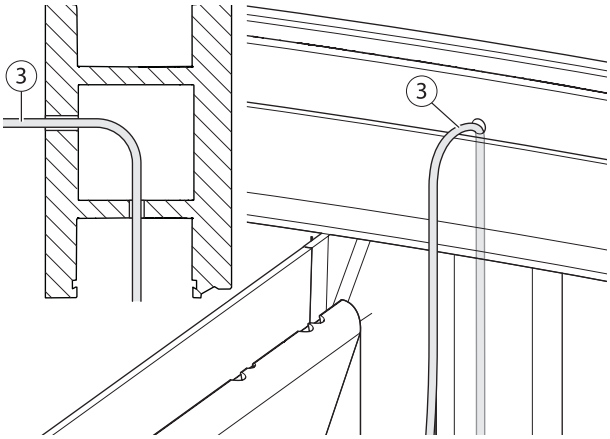
5.2.16 Drilling a cable guide for post safety

- ▶ Drill a hole for the post safety sensor cable guide at each mullion (2) through the ceiling canopy (1).

- ▶ Only drill in cavity.
  If possible, route the cable out through the pre-drilled hole inside.

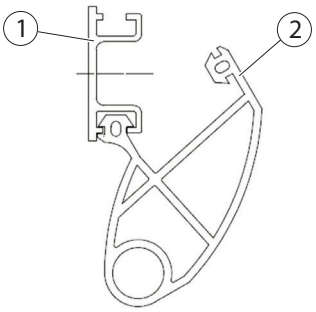


- ▶ Thread the post safety sensor (3) cable through the ceiling canopy.

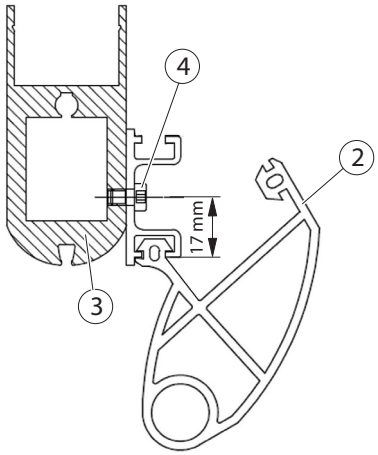


5.3 Mounting switch contact strips on the leaves

- ▶ Pull at least one side of the switch contact strip (2) out of the profile (1).

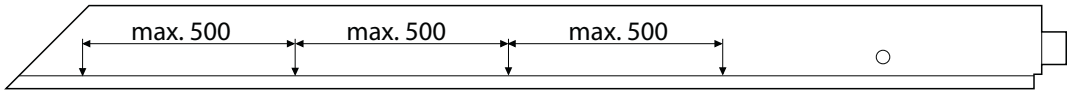


- Screw the switch contact strips (2) to the leaf (3) using 2 M4 screws (4) each.

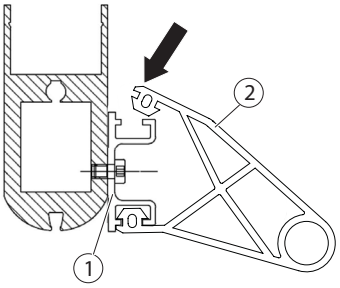


- Attach the safety edge to the profile using the prepared drill holes.

The strip must be attached using M4 threads and associated screws or comparable self-tapping screws.



- Press the engaging lips on the switch contact strips (2) back into the profile (1) using a lubricant (such as soapy water).

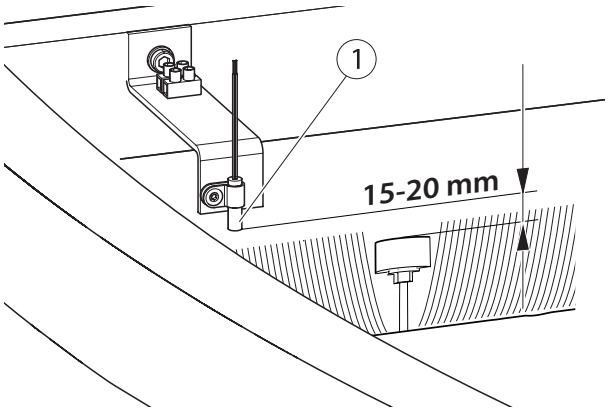


- Lay the cable from the heel protection strip through the provided drill hole into the leaf profile and into the centre rod.
- Wire the heel protection strip.
- In the same way mount and wire the heel protection strips to the other side-hung leaves.

5.3.1 Mounting the initialisation sensor

- Mount and align the initialisation sensor (1). Max. distance of initialisation sensor to magnet = 15–20 mm

Final fixing is carried out after commissioning.



5.3.2 Wiring the revolving door

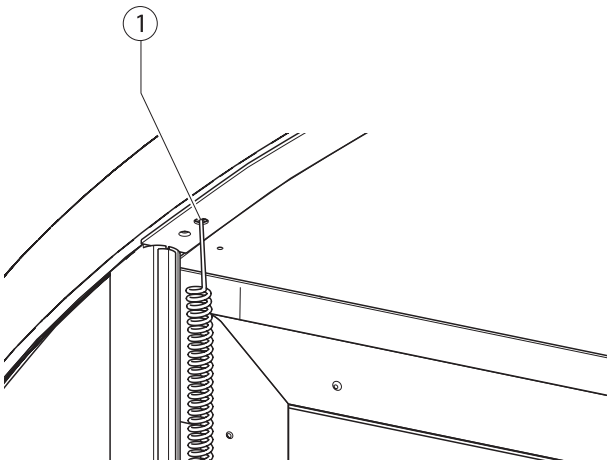
WARNING!
Risk of fatal injury due to electric shock!
- The electrical system (230 V) may only be connected and disconnected by a professional electrician.

- Wire the Revo.PRIME revolving door according to the wiring diagram.

5.4 Connect the GEZE ST220 diagnostic device/Use GEZEconnects

- Connect the diagnostic device GEZE ST220 (mat. no. 137343) to the interface module (1).

If the interface module (1) is not available, the ST 220 can also be inserted onto the back of the keypad programme switch.



- Start up the system with control element GEZE ST220 (serial no. 087261) or GEZEconnects (serial no. 133367).

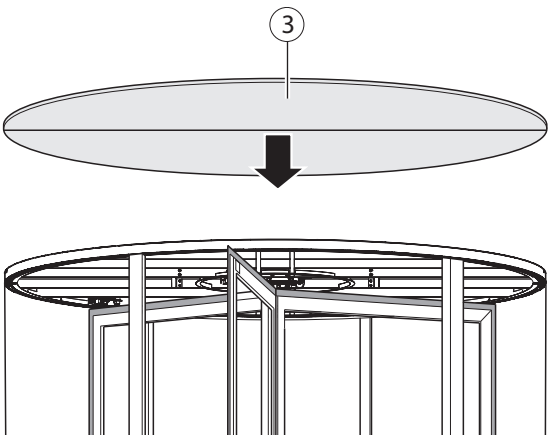
Information on commissioning the system is available in the DCU6 wiring diagram.

5.5 Mounting ceiling panels

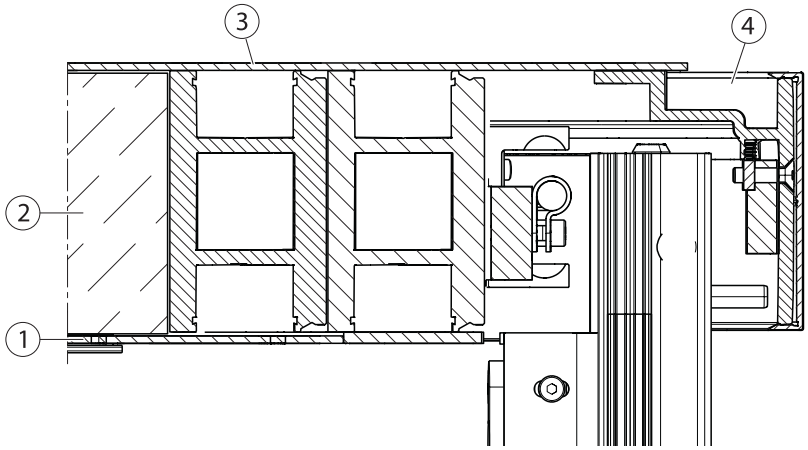
5.5.1 Setting the cover plate in place

- Place the cover plate (3) (wooden panel or aluminium sheet) on the ceiling ring.



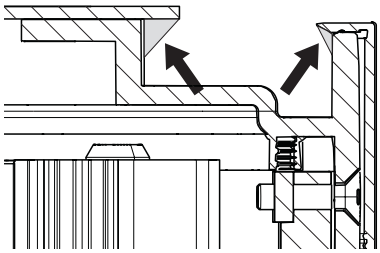


1 Ceiling canopy
2 Insulation
3 Cover plate
4 Water gutter



- Screw down the cover plate (3).
- Mount the weather guard with water gutter (4).
- Place weight over the entire surface of the sheeting until the glue is dry.

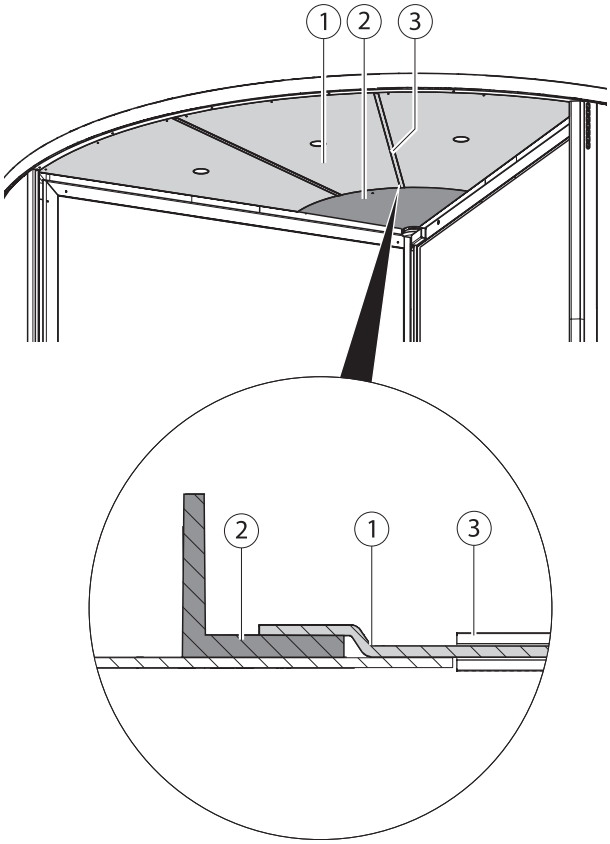
- Seal the water gutter on the construction site (see arrow).



5.5.2 Inserting and screwing in the segment sheets

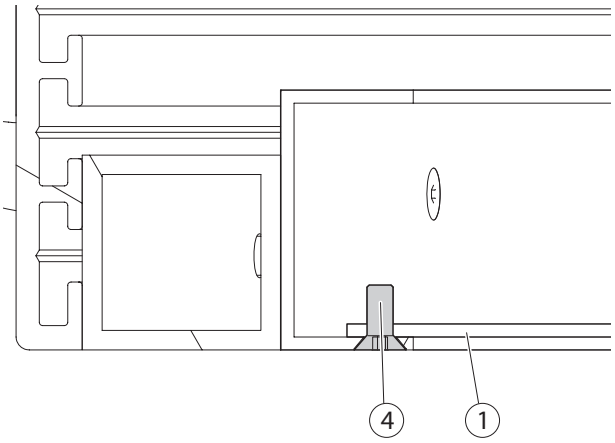
For doors with a turnstile brace, the ceiling panel with hole must first be inserted into the ceiling.

- ▶ Drill the holes for the locking bolts of the manual and automatic locking mechanism (optional).
- ▶ Place and align the segment sheets (1) on the retaining bracket (2).
- ▶ Insert the H-track joint (3).



- ▶ Screw the segment sheets (1) using M4×10 countersunk head screws (4) (3 or 5 screws per sheet, depending on size).

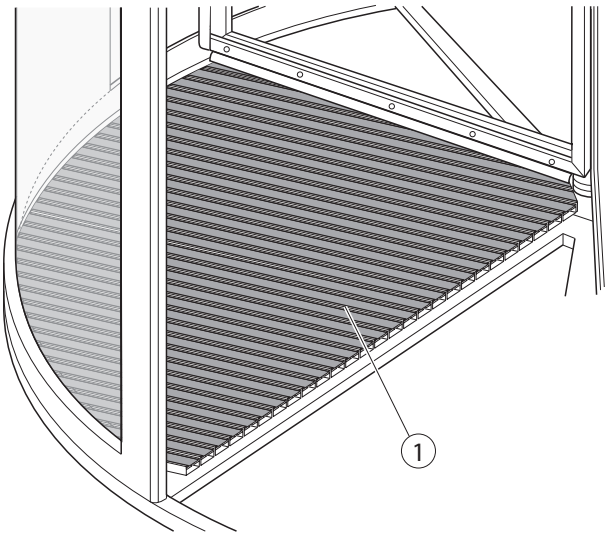
- ▶ In order to install the last ceiling panel, loosen the screw of the inner support ring for the segments and turn towards the turnstile.
- ▶ Slide the connection profile onto the segments from the inside.



5.5.3 Installing the entrance mat

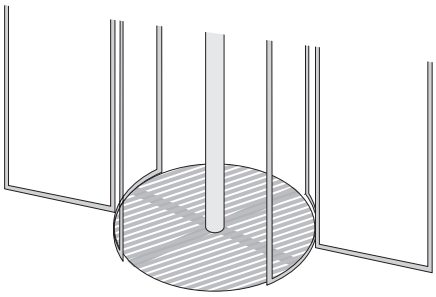


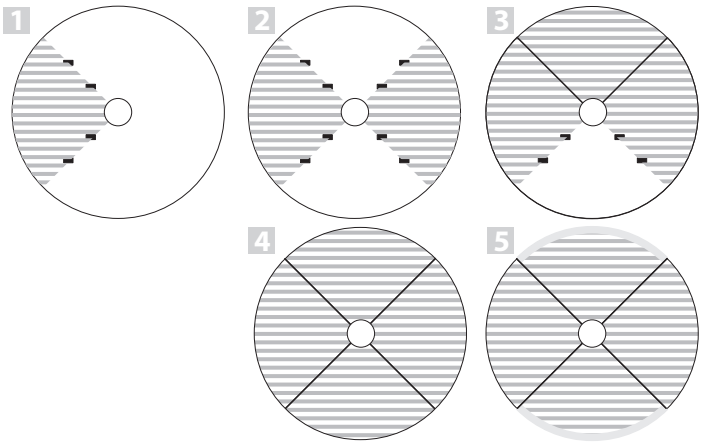




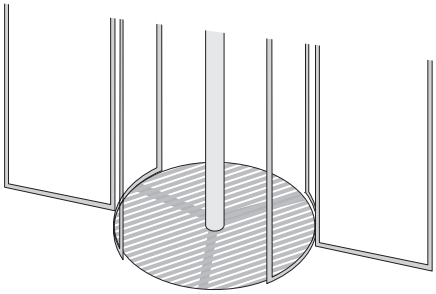
- Install the entrance mats (1) according to the installation plan (see below).

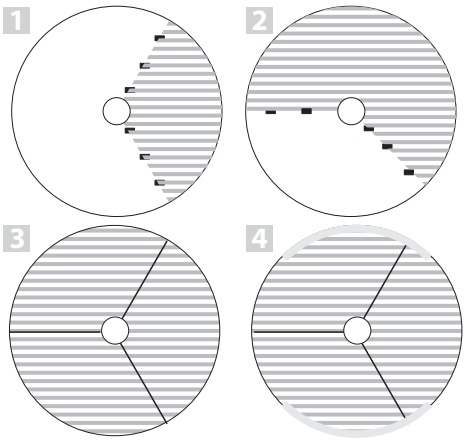
Installation plan X division





Installation plan Y division



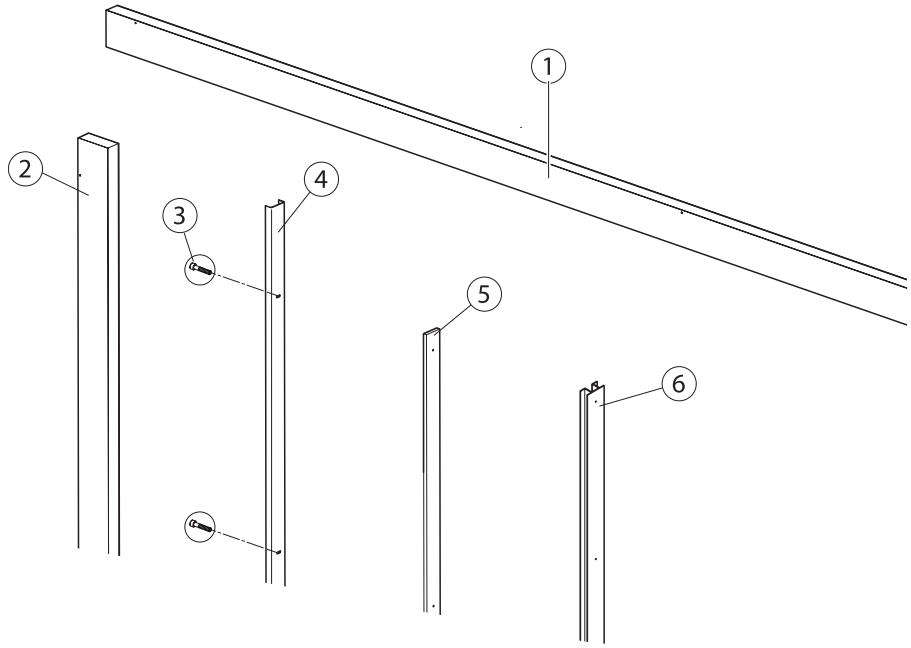


5.5.4 Façade connection (optional)

The façade connection is an equipment option, and can be included in the scope of delivery if requested by the customer.

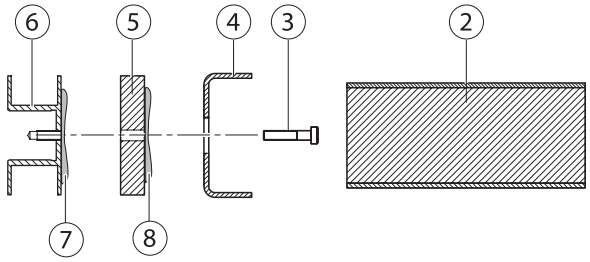
The façade connection consists of the following components:

- 8 mm flat material; to compensate between the drum wall and canopy
- U profile; to mount the façade panel
- Façade panel; thickness, width and colour as requested by the customer
- Cylinder head screws (M4×20); included in the screw box/assorted box



1 Façade profile, top
2 Façade panel profile, side, left, and right
3 Cylinder head screw M4×20
4 U profile, left and right
5 Flat material, left and right
6 Side panel joint with cavity, left and right

- ▶ Place the flat material (5) on the butt connector strip (6) of the side panel with a thin silicone joint (7).
- ▶ Place the U profile (4) on the flat material (5) with a thin silicone joint (8).
- ▶ Screw the flat material (5) to the butt connector strip (6) using M4×20 cylinder head screws (3).
- ▶ Insert the side façade panel (2) into the U profile (4) and connect to the existing façade.
- ▶ Attach the top façade panel profile (1) above the door to the façade using appropriate steps and seal.



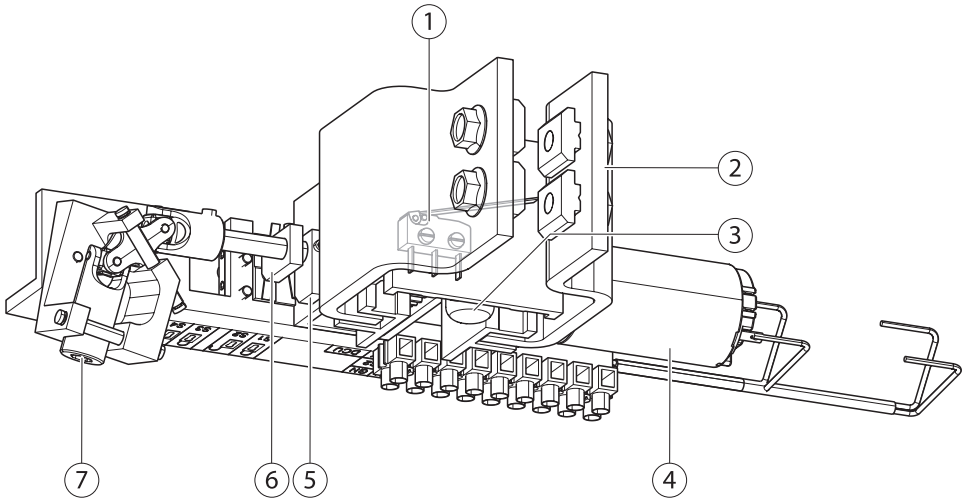
5.6 Check list for commissioning and service

- ▶ Complete the check points according to the check list in “Commissioning and service”.

6 Options

6.1 Automatic locking mechanism

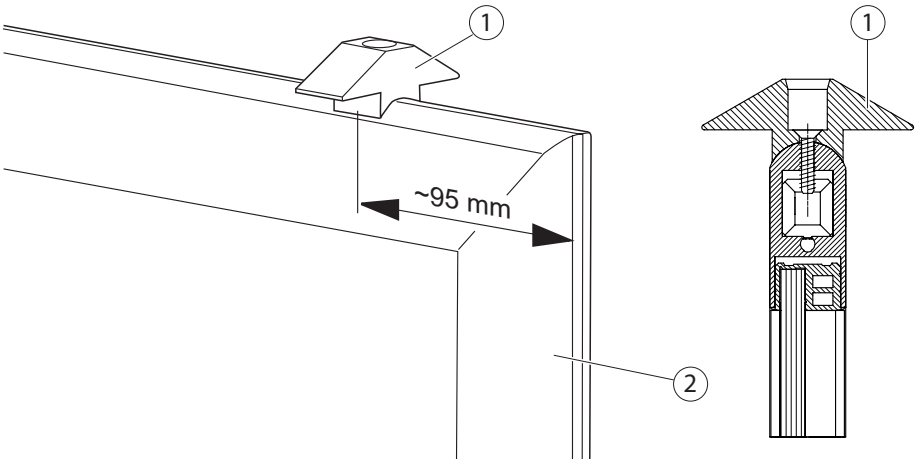
6.1.1 Components



1 Limit switch for locking bolt
2 Retaining bracket
3 Locking bolts
4 Drive
5 Operating cam 1
6 Operating cam 2
7 Hex size 6 of manual unlocking

6.1.2 Mounting the locking ramps on Revo.PRIME

- Mount the locking ramp (1) on the moving leaf at the pre-drilled position (approx. 95 mm from the outer leaf edge (2)).
  The leaf will then be **inside** when in night mode position.

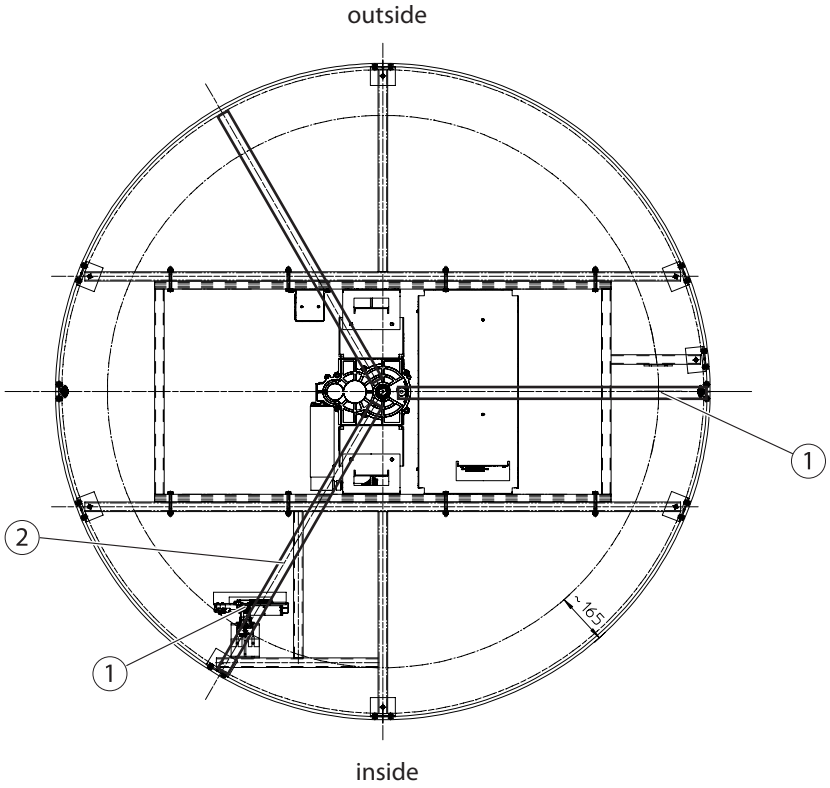


6.1.3 Mounting the locking ramps on Revo.PRIME BO

- Mount the locking ramps on the two moving leaves that are positioned **outside** in the night mode position at the pre-drilled positions (approx. 95 mm from the leaf outer edge (2)).

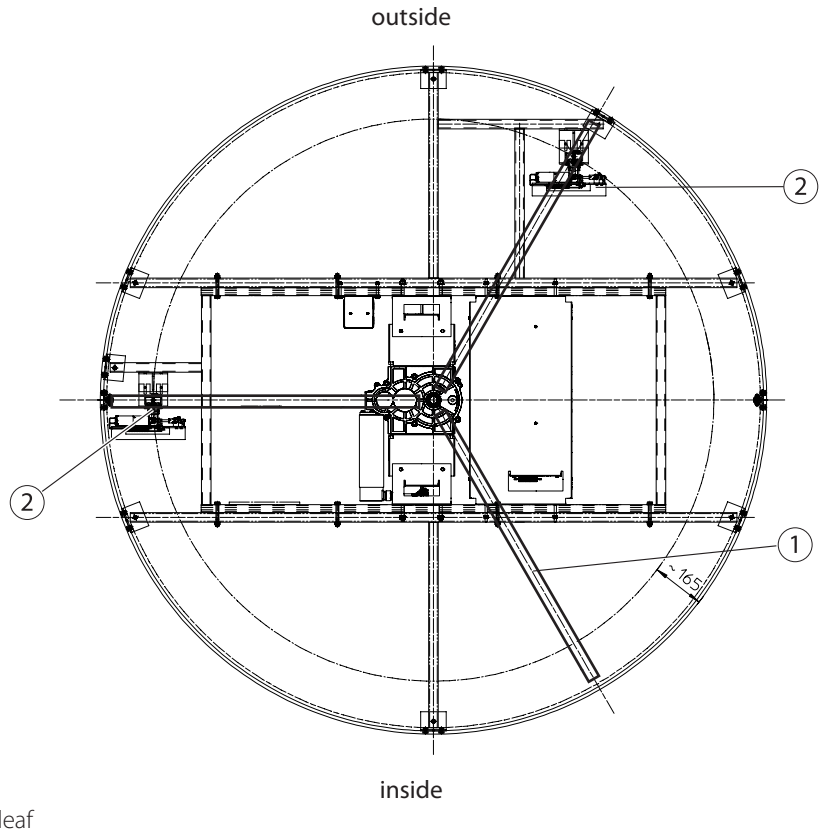
6.1.4 Installation positions

Installation position Revo.PRIME, 3-leaf:



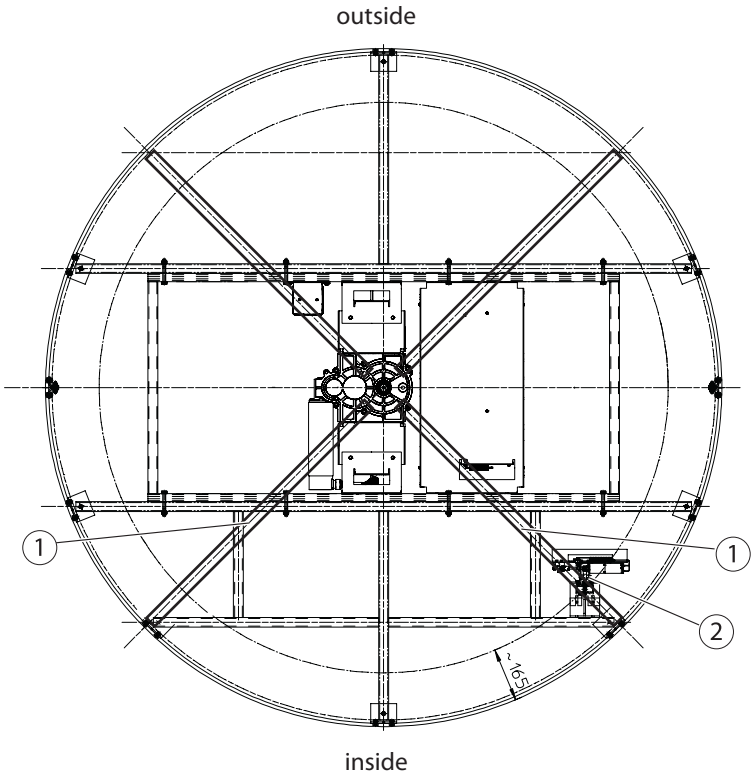
1 Side-hung leaf
2 Locking mechanism

Installation position Revo.PRIME, 3-leaf, BO variant:



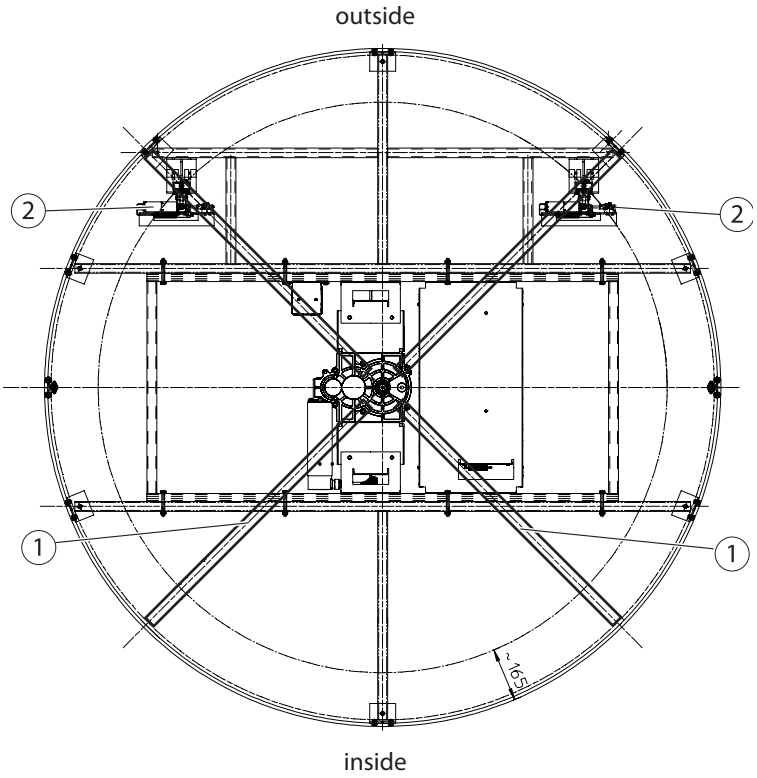
1 Side-hung leaf
2 Locking mechanism

Installation position Revo.PRIME, 4-leaf:



1 Side-hung leaf
2 Locking mechanism

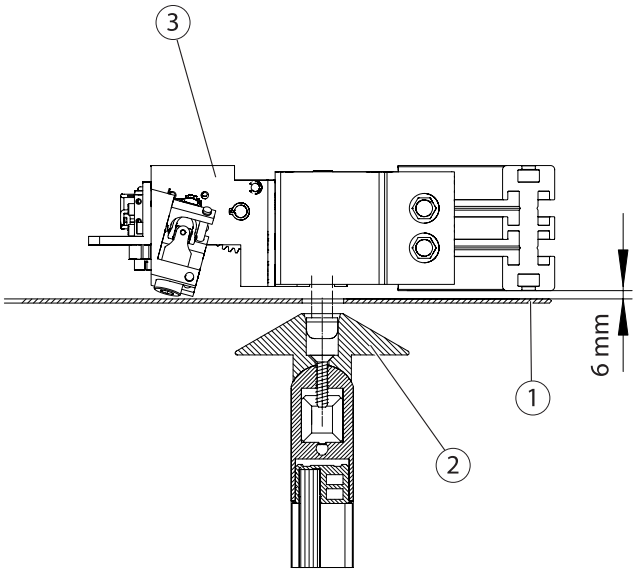
Installation position Revo.PRIME BO, 4-leaf:



1 Side-hung leaf
2 Locking mechanism

6.1.5 Setting the position of the locking mechanisms

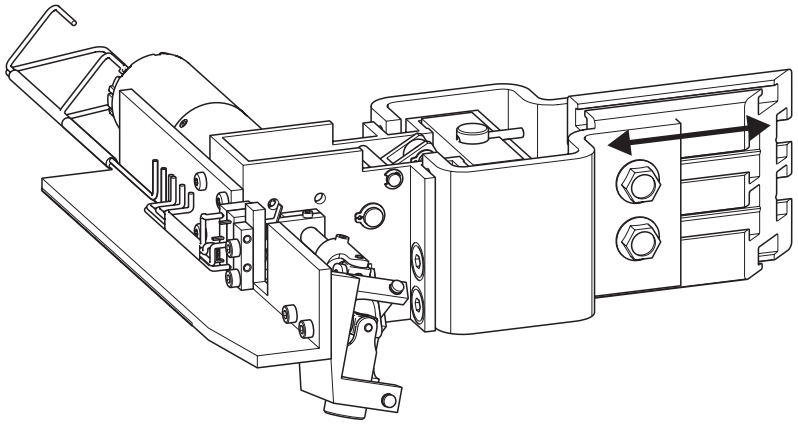
The locking mechanism has to be set so that it is as close as possible to the ceiling panel without touching it.



1 Ceiling panel
2 Locking ramp
3 Locking mechanism

WARNING!
Risk of fatal injury due to electric shock!
- ▶ Before working on the electrical system, disconnect the system from the 230 V mains network.

- ▶ Dismantle the ceiling panels (1) in the area of the locking mechanisms.
- ▶ Adjust both locking mechanisms using the oblong holes of the retaining brackets.



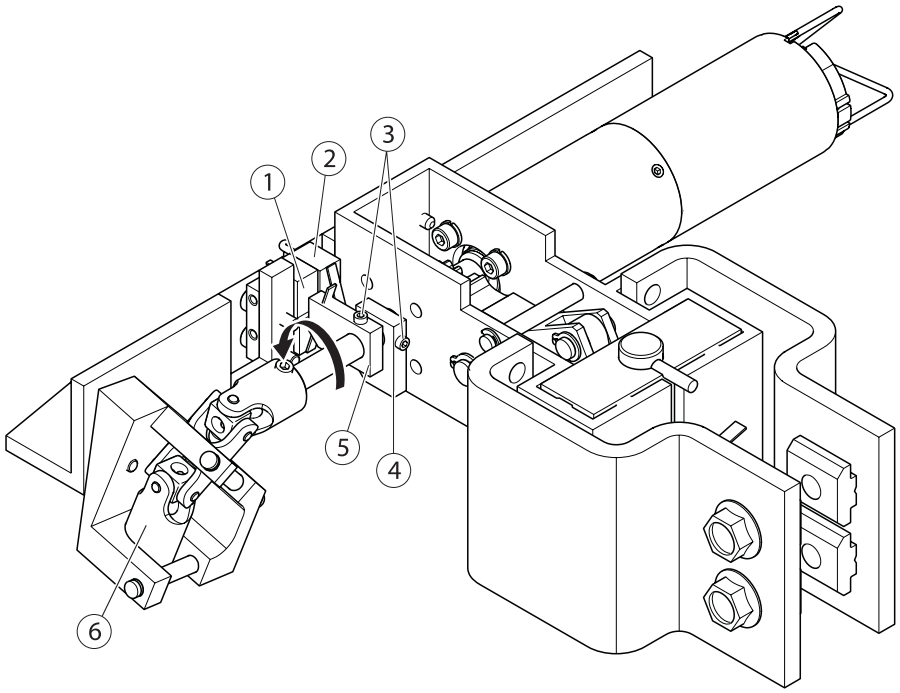
- ▶ Adjust the turnstile so that the leaves are not positioned under the locking mechanisms.
- ▶ Use the manual unlocking (hex size 6) (see chapter 6.1.1 Components on page 27, pos. 7) to position both locking mechanisms completely at the bottom.
- ▶ Turn the turnstile until at least one of the two locking mechanisms latches in.
- ▶ If necessary, adjust the locking mechanism that does not yet latch in correctly by means of the oblong holes as described above so that it also latches in correctly.
- ▶ Use the manual unlocking to position the locking mechanisms at the top again and repeat the process until both locking systems latch in when the turnstile is turned.

6.1.6 Adjusting the switching points

Adjusting of the switching points is used to specify the respective end points (locked / unlocked) of the locking bolt.

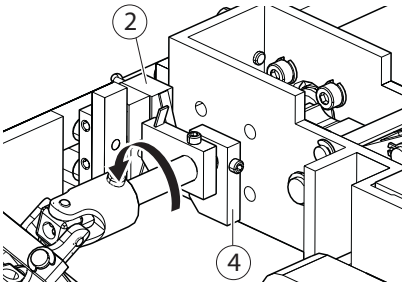
If the switching points are set incorrectly, the switching contacts are not operated in the end positions of the locking mechanism so that malfunctions can occur.

- Loosen the set screws (3) of the two operating cams (4) and (5) on the extended motor axis of the locking device.



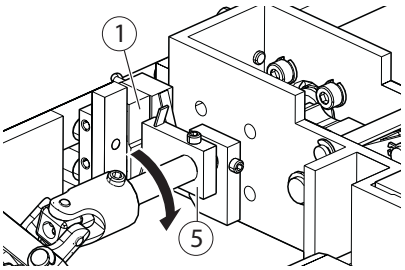
Adjusting the Locked position:

- Use the hexagon of the manual unlocking (6) to move the locking bolts completely downwards.
- Turn operating cam 1 (4) in the direction of rotation of the motor axis (see arrow) on the limit switch (2) until it triggers the contact (click noise).
- Tighten the set screw (3) of operating cam 1 (4) again.



Adjusting the unlocked position:

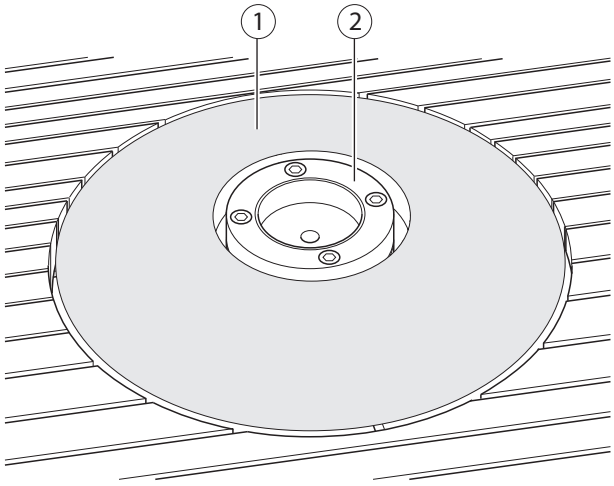
- Use the hexagon of the manual unlocking (6) to move the locking bolts completely upwards.
- Turn operating cam 2 (5) in the direction of rotation of the motor axis (see arrow) on the limit switch (1) until it triggers the contact (click noise).
- Tighten the set screw (3) of operating cam 2 (5) again.



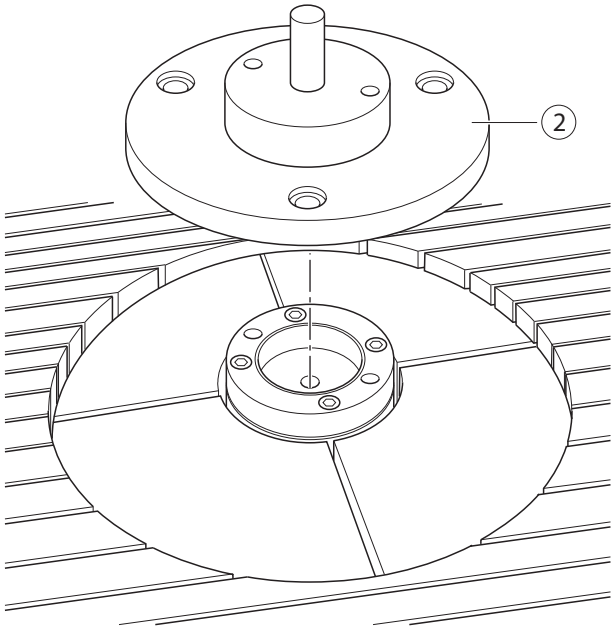
6.2 Revolving doors with break-out function

6.2.1 Installing the central swivelling axis

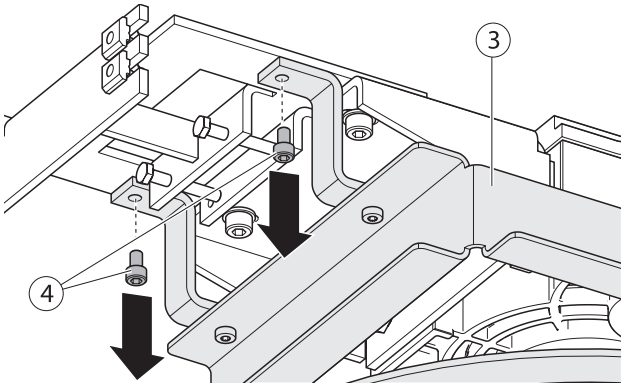
- ▶ Remove the protective plate (1).
- ▶ Pre-mount the floor bearing (2).



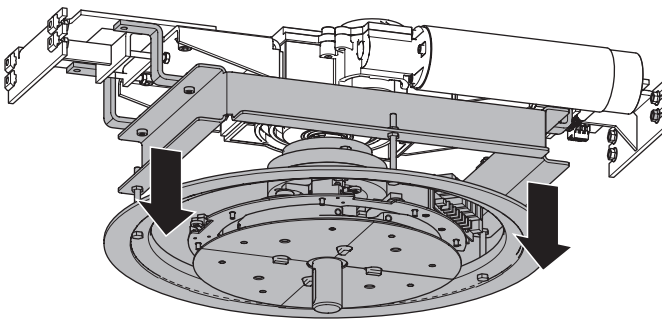
- ▶ Place the lower rotating plate (2) on the floor bearing.



- ▶ Unscrew the 4 screws (4) from the upper break-out mechanism (3).

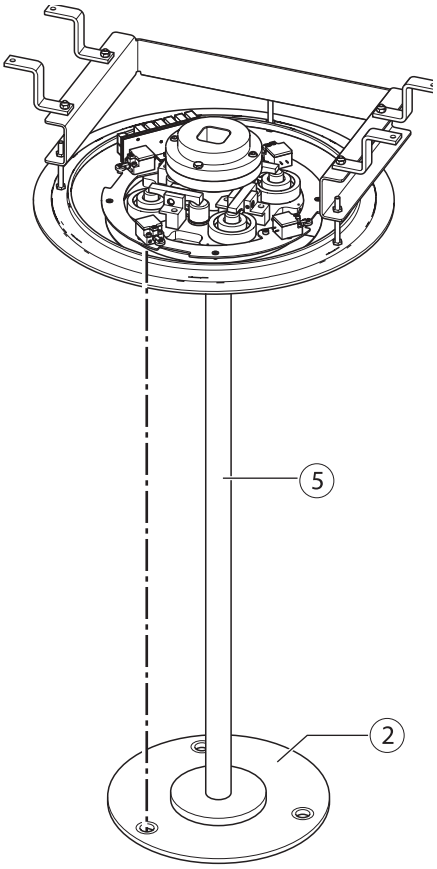


- Lift the bearing plate of the upper break-out mechanism (3).



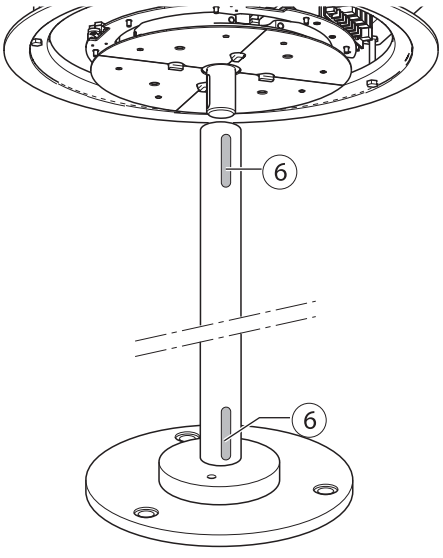
- Insert the steel tube (5) of the swivelling axis onto the lower rotating plate (2) and into the upper break-out mechanism.

Ensure that the rotating plate and the upper break-out mechanism are exactly flush.



- Secure the steel tube against twisting and slipping at the top and bottom with 2 fitting keys (6) each.
- Secure the fitting keys with M3 screws.

Secure M3 screws with thread lock.



Removing fitting keys:

- Screw the M3 screws out of the fitting screws.
- Screw in M4 screws and press out the fitting screws with a pull-off tool.

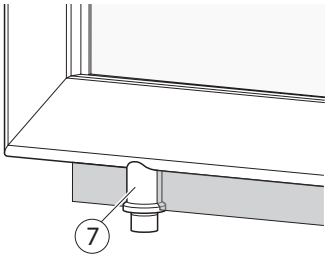
Fitting screws can be removed by using a screw with a larger thread and a pull-off tool.

- Fasten the suspension plate of the upper swivelling axis so that the central swivelling axis is positioned exactly vertically.

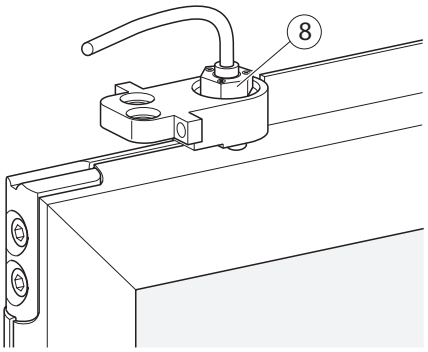
6.2.2 Install BO leaf

The BO leaves are pre-mounted and cabled completely in the factory (including the lower break-out axis and the upper break-out flange).

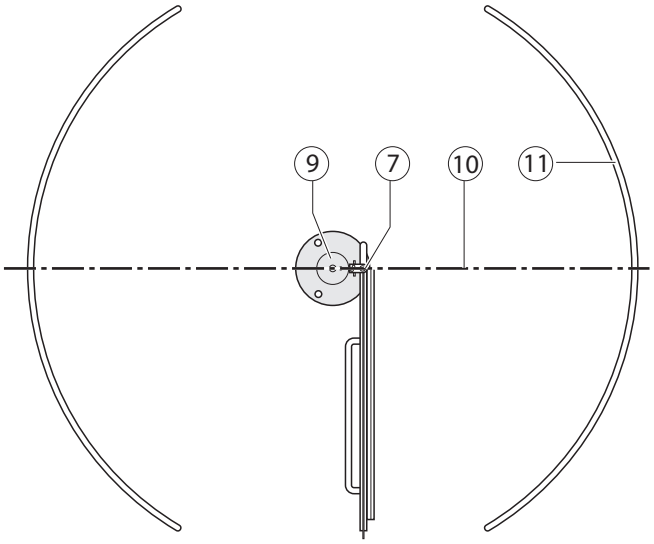
lower break-out axis (7)



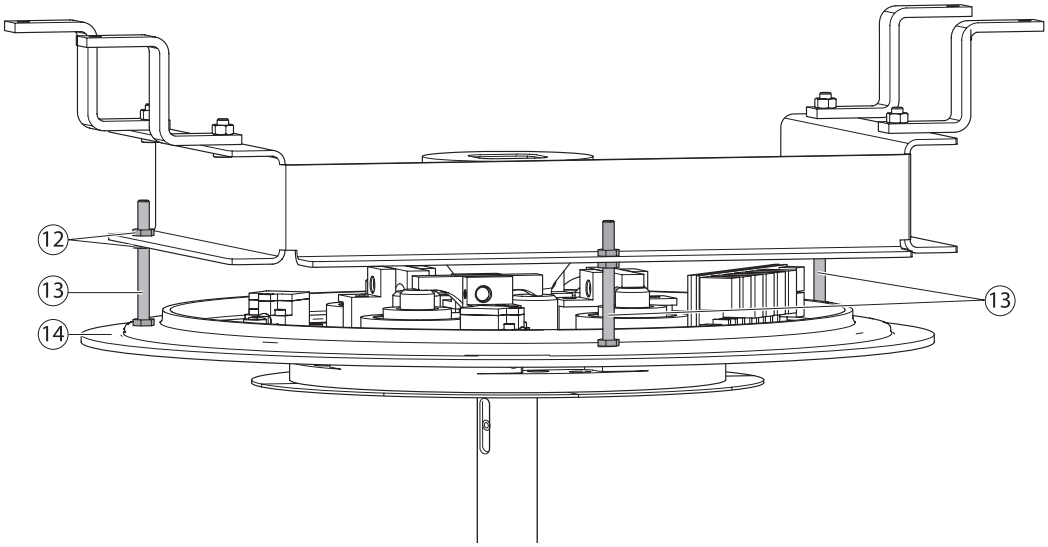
upper break-out flange (8)



- Turn the central swivelling axis (9) so that the hole of the break-out axis of the leaf (7) that is to be mounted points sidewards to the middle of the side panels (11), i.e. in the direction of the swivel axis (10) shown below.



The ceiling mounting ring (14) has to be adjusted upwards so that the upper break-out flange can be screwed on.

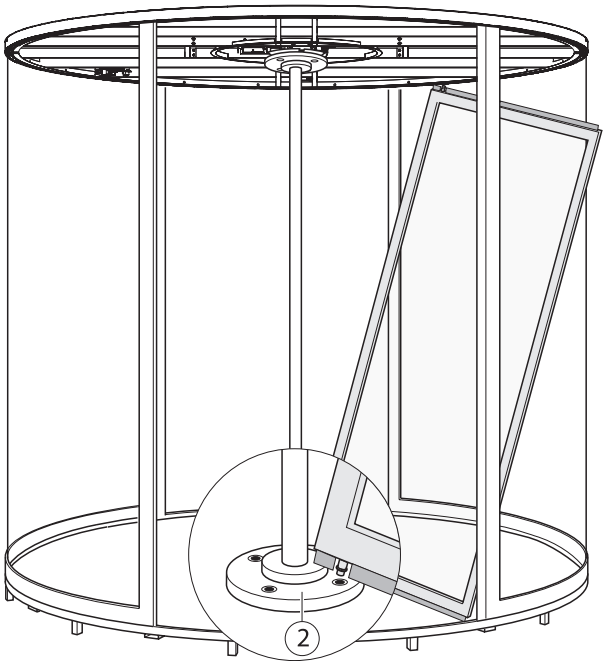


- Loosen the lock nuts (12) of the 3 screws (13).
- Turn in the 3 screws.

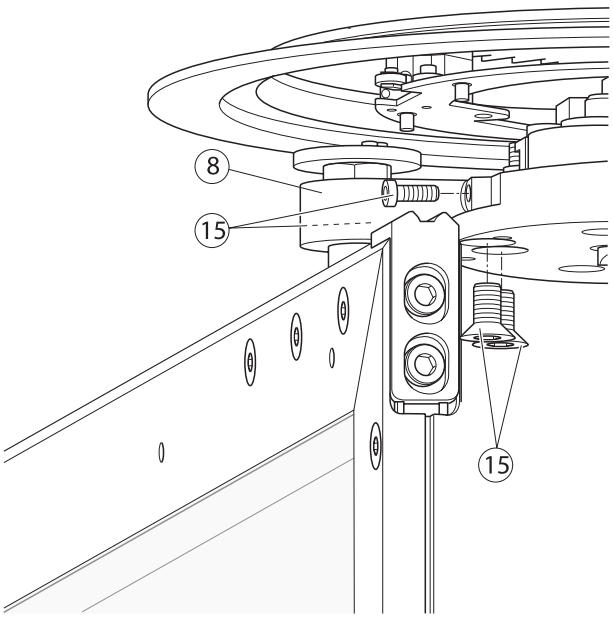
The ceiling mounting ring (14) is pressed upwards.



- Insert the lower break-out axis into the rotating plate (2).



- Swivel in the upper break-out flange (8) and screw tight with four screws (15).

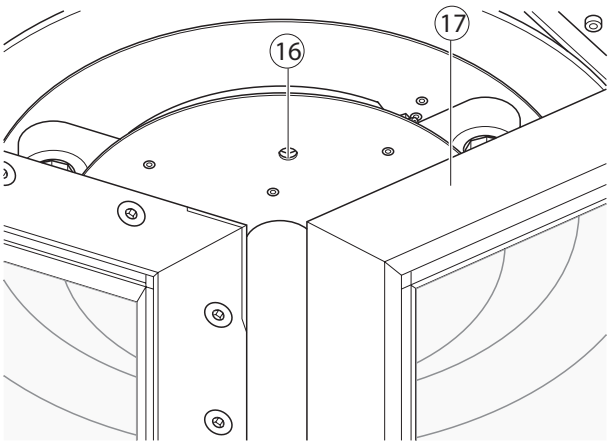


- Remove the stress from the locking pin by turning the adjustment screw (16) anti-clockwise.
  The adjustment screw (16) has to contact lightly.

The leaf latches into the BO lock.

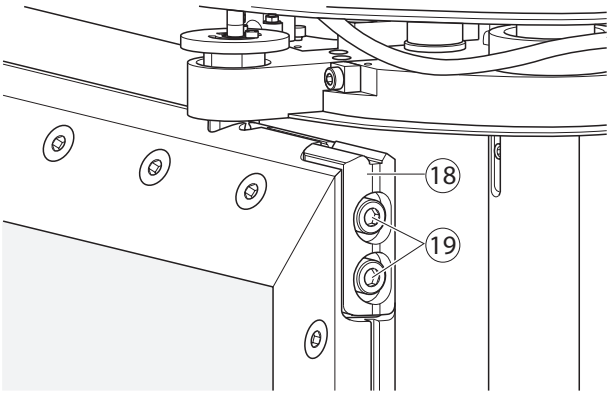
- Turn the adjustment screw (16) ¼ of a rotation clockwise.

The opening assistance is pre tensioned.



The corresponding leaf (17) is always located to the right of the adjustment screw (16).

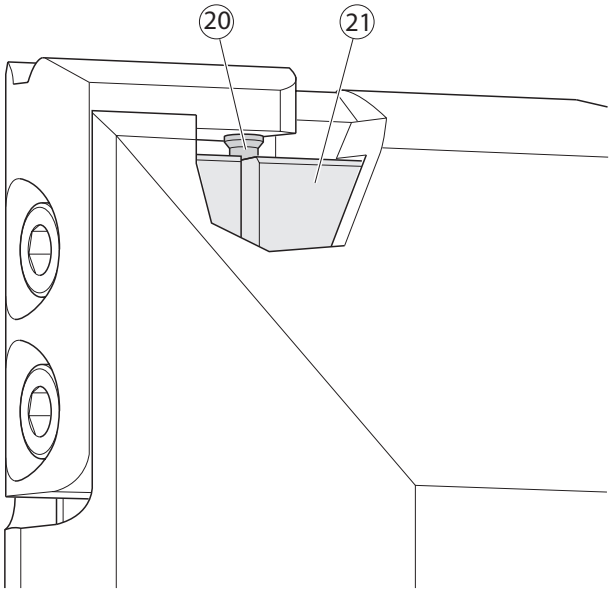
- Loosen the fastening screws (19) of the bosh angle (18).



- ▶ Adjust the bosh angle using the set screw (20).

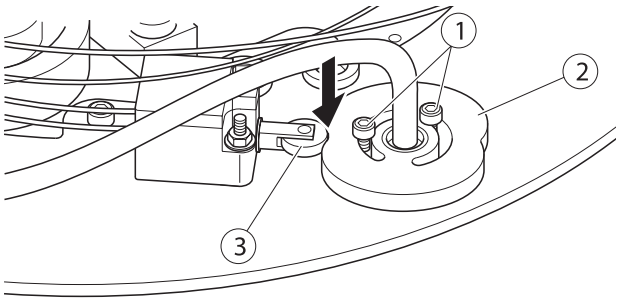
When the leaf latches in, the locking pin has to latch into the contour of the bosh angle without a perceptible play.

- ▶ Tighten the fastening screws (19).
- ▶ Check whether the set screw (20) contacts at the corner bracket (21).



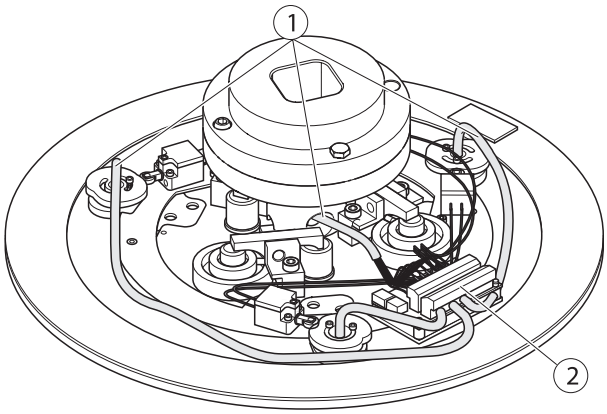
6.2.3 Checking the switching discs

- ▶ Mount the switching discs (2) on the upper breakout flange in such a way that the roller (3) of the switch is located in the recess of the switching disc in the leaf zero setting.
- ▶ Screw in the screws (1) with thread lock.



6.2.4 Connecting the lines

- ▶ Connect the wires (1) of the BO leaf to the terminal (2) on the turnstile cover.



6.2.5 Adjusting the break-out forces of the BO leaves

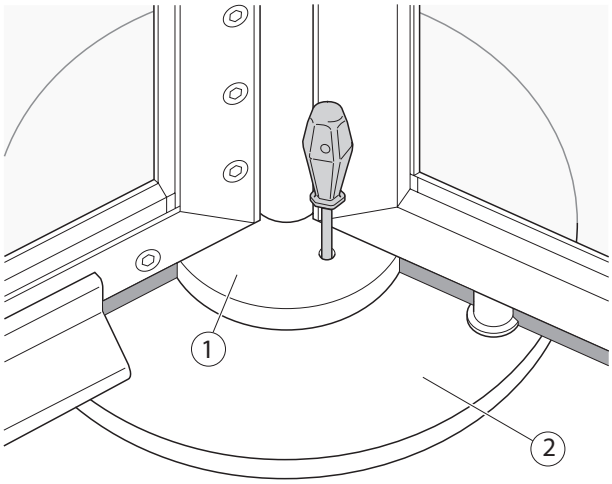
- ▶ For break-out doors, increase the break-out force on one or two leaves (depending on the number of leaves) so as to prevent the leaves from becoming wedged against one another.

Locking the central swivelling axis in position

In order to adjust the break-out forces of the leaves the system has to be locked in position via the central swivelling axis.

- ▶ Insert a tool (e.g. screwdriver) through the hole in the bearing disc (1) and counterhole in the floor bearing disc (2) in the floor bearing.

The central swivelling axis is locked in position.



Measuring the break-out force

Measuring devices:

- Force measuring tool
- Spring scale

- ▶ Mark the measuring point (4) in accordance with the adjacent drawing.
- ▶ Measure the break-out force of the individual BO leaf at the measuring point (4).

The maximum break-out force amounts to 220 N.

Adjusting the break-out force

- ▶ If necessary, adjust the break-out force at the adjustment screw (5).

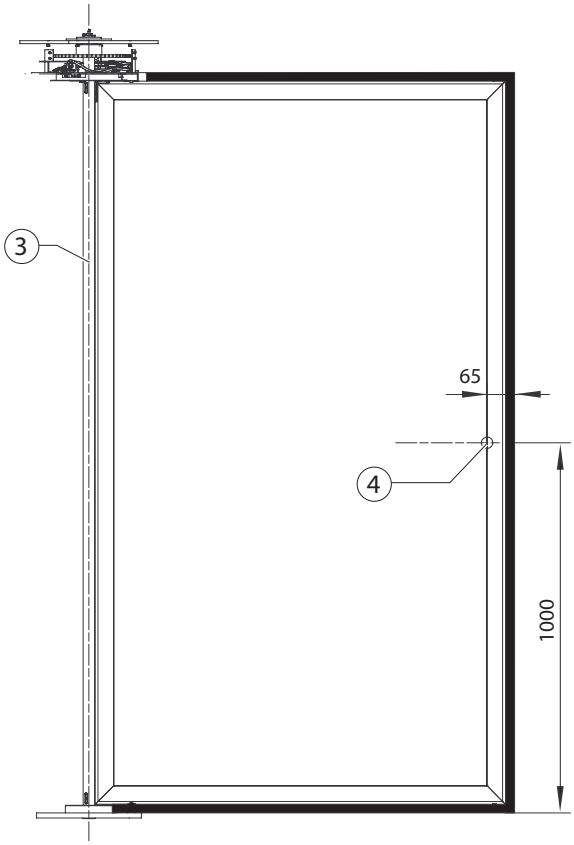
Check emergency stop function:

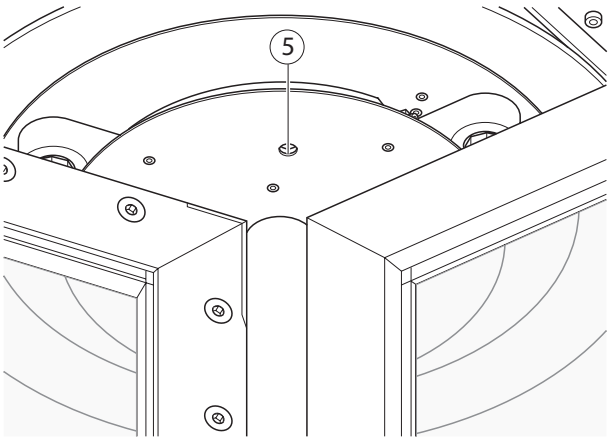
- ▶ Press emergency stop switch.
- ▶ Load the BO leaf.

The BO leaves must not break out.

Check the break-out angle

- ▶ Check whether the drive is switched off after a leaf break-out angle of 15°.





3 Central swivelling axis
4 Measuring point
5 Adjustment screw

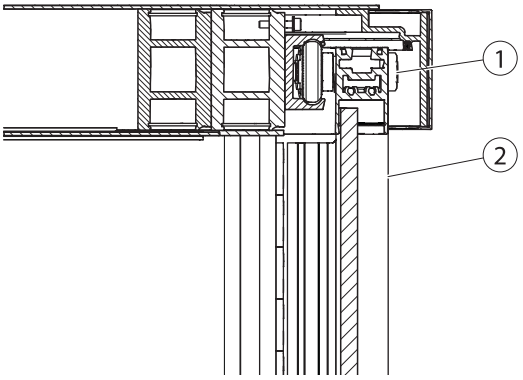
6.2.6 Additional information for the commissioning

- ▶ Adjust the maximum speed in accordance with the wiring diagram.
- ▶ Adjust the maximum acceleration so that the break-out door leaf does not break out during an emergency stop during the acceleration phase. If necessary, increase the “acceleration distance” value.
- ▶ If possible, connect revolving doors with break-out system to the façade on the canopy.
- ▶ Attach a “Break-out” sticker to the leaf at a height of 1000 mm above the floor.

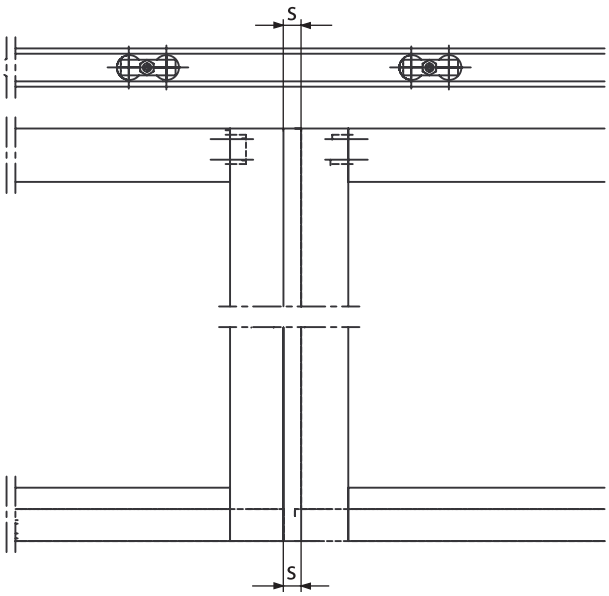
6.3 Mount the outside-running night-time closer (manually)

WARNING!
Danger of injury due to glass breakage!
- Always mount the door leaf together with another person.

- Hang in the door leaf (2).
- Use the eccentric screw (1) to adjust the door leaf to the correct height.
- Align the height on the basis of the brush height.
- Check whether the door leaf moves smoothly.



- Adjust the space between the night-time closer and the side panel.
- Align both door leaves in the closed position at the top and bottom so that the space s at the top and bottom is the same.
- Screw the leaf tight and close the doors correctly.



The floor guide for the night-time closer depends on the size. Observe the drawing!

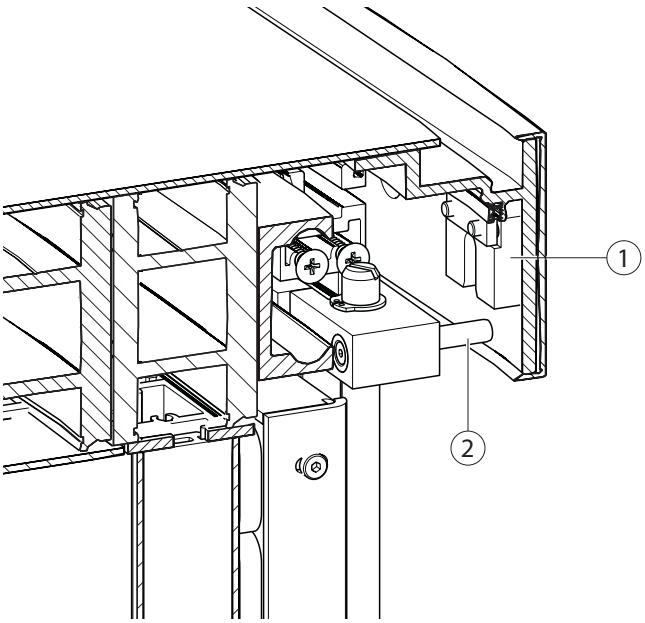
Installing and adjusting the locking yoke

The locking yoke (1) must be adjusted both in the opening and closing position.

- Move the night-time closer leaf to the closing position.
- Move the vertical rod up.

- Make sure that the pin (2) moves into the locking yoke (1).

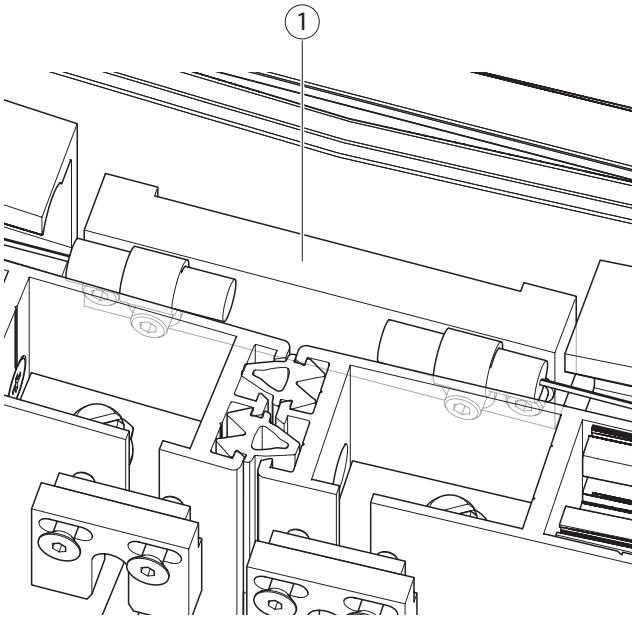
- Screw the locking yoke in place from the outside.
- In open position, make sure that the contacts of the open position monitoring switch, if these are available.



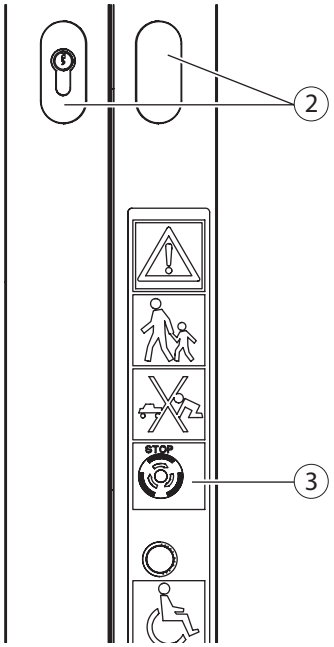
Adjusting locking monitoring

- ▶ Move the night-time closer leaf to closing position.
- ▶ Move the vertical rod up.

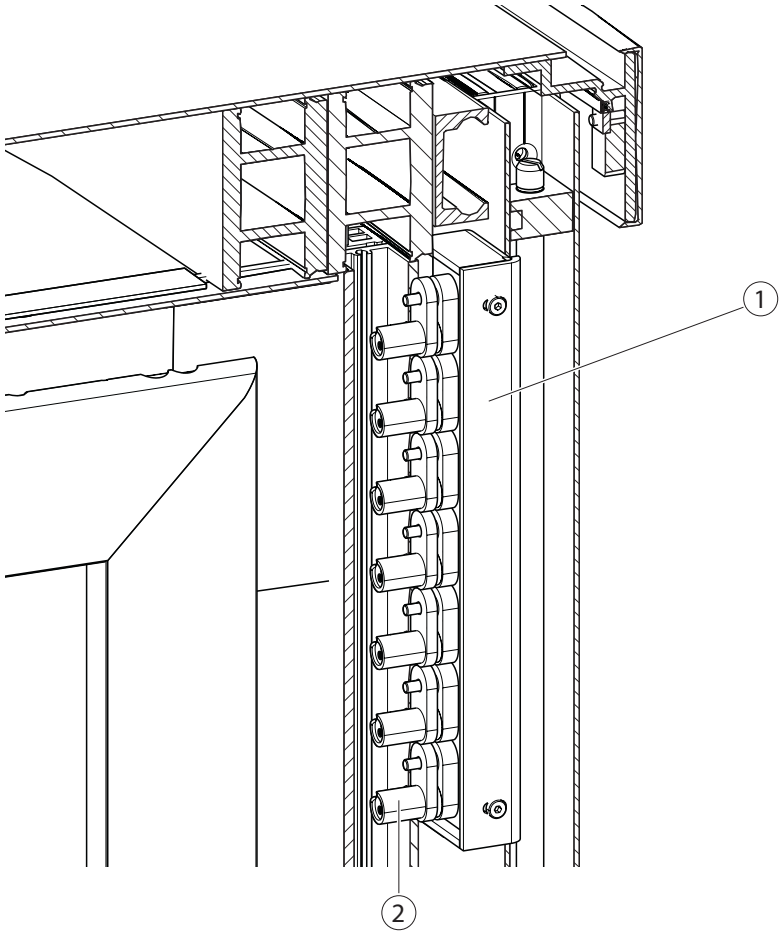
- ▶ Make sure that the solenoid switch (1) changes as soon as the vertical rod has reached its end position.



- ▶ Mount the back plates (2) for the lock.
- ▶ Mount the emergency stop switch (option) (3).



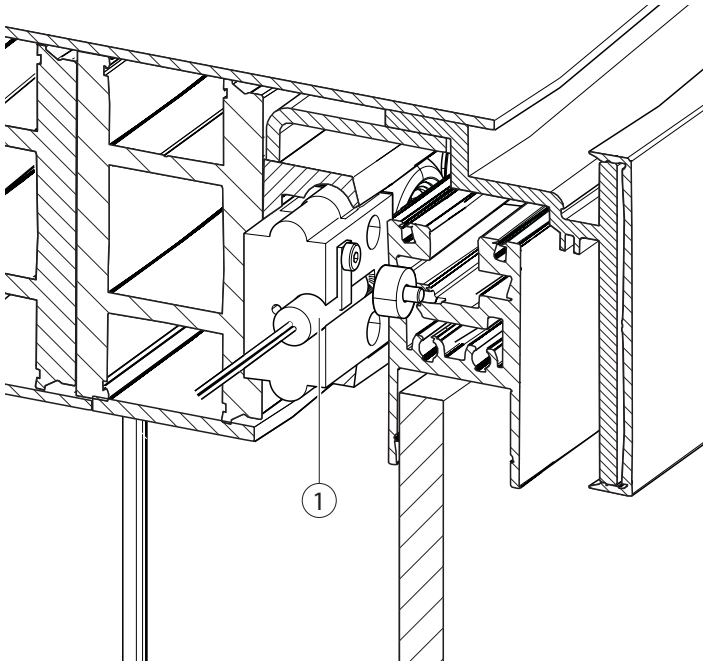
6.4 Installing open position monitoring (with emergency stop) NV



The contacts (2) which are mounted on the side panel are usually pre-mounted in the leading mullion profile of the right-hand side panel at the factory.

- ▶ Pre-mount the other unit (1) on the night-time closer panel.
- ▶ Move the night-time closer panel to open position.
  In open position, all magnetic contacts must switch.
- ▶ If necessary, correct the position of the unit on the night-time closer panel.

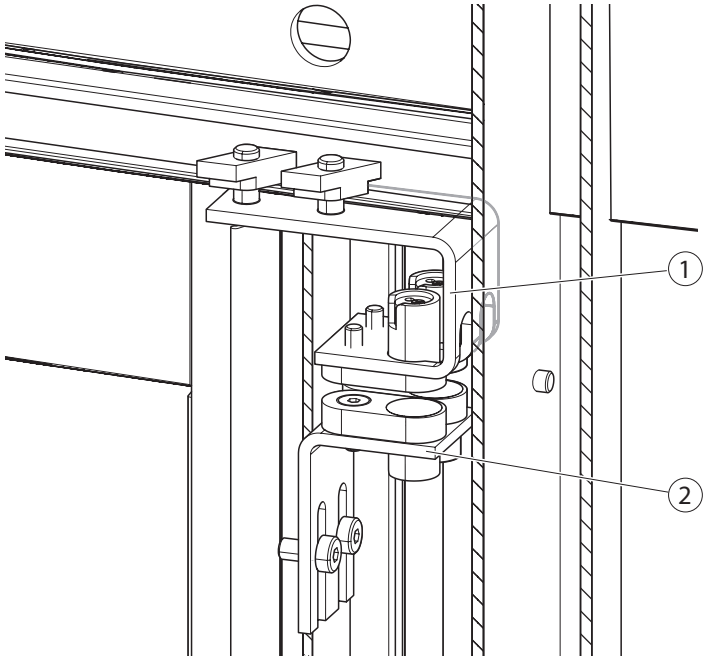
6.5 Installing closed position monitoring NV



- ▶ Move the night-time closer leaf to closing position.
- ▶ Move the vertical rod up in order to lock the night-time closer leaf in place.

Make sure that the solenoid switch (1) which is installed in the buffer changes as soon as the night-time closer leaf has reached the closing position.

6.6 Installing open position monitoring IANV



This unit must always be installed on the right-hand night-time closer leaf (seen from the outside).

- ▶ Mount contacts (2) on night-time closer leaf.
- ▶ Mount contacts (1) at the bottom on the track.
- ▶ Move the night-time closer panel to open position.
  In open position, all magnetic contacts must switch. If necessary, the position of the units must be corrected.

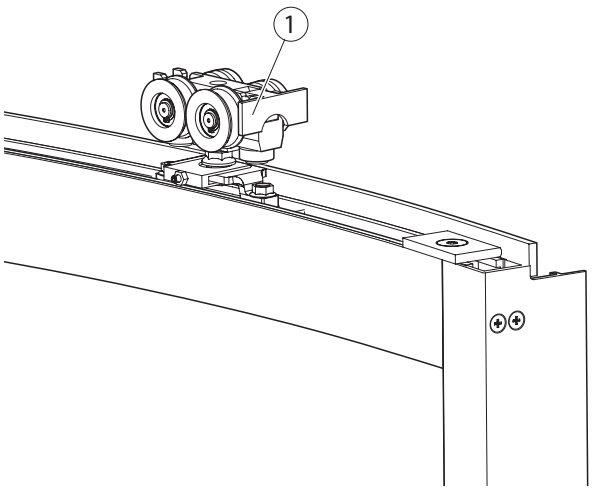
6.7 Installing closed position monitoring IANV

- The leaf part of the tappet contact must be mounted on the roller carriage before installing the leaf. Subsequent installation on the roller carriage is not possible.
- The leaf part tappet contacts can only be mounted on an RC 2 roller carriage.

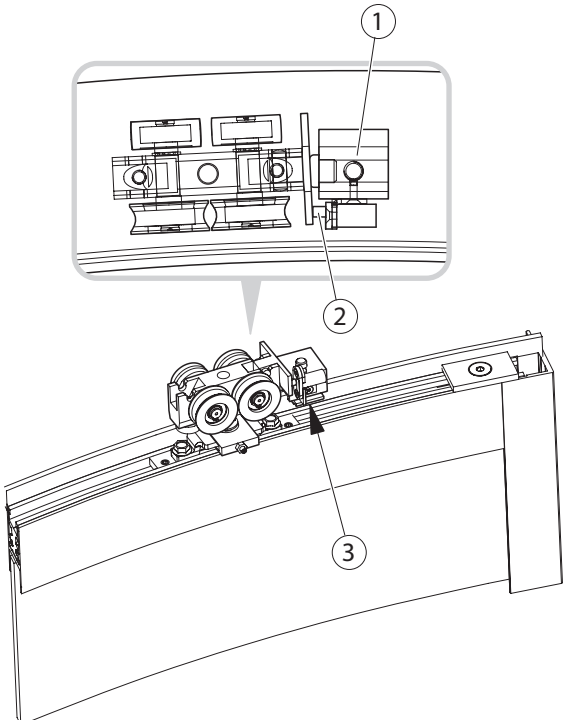
Mounting the tappet contact on a track

The tappet contact consists of a leaf part and a frame part installed in the track.

- Before installing the night-time closer, mount the leaf part (1) on the associated RC 2 roller carriage.
- After installation of the leaf in the track, align the door leaf and check for proper running behaviour, including in conjunction with the tooth belt (optional: automatic night-time closer).



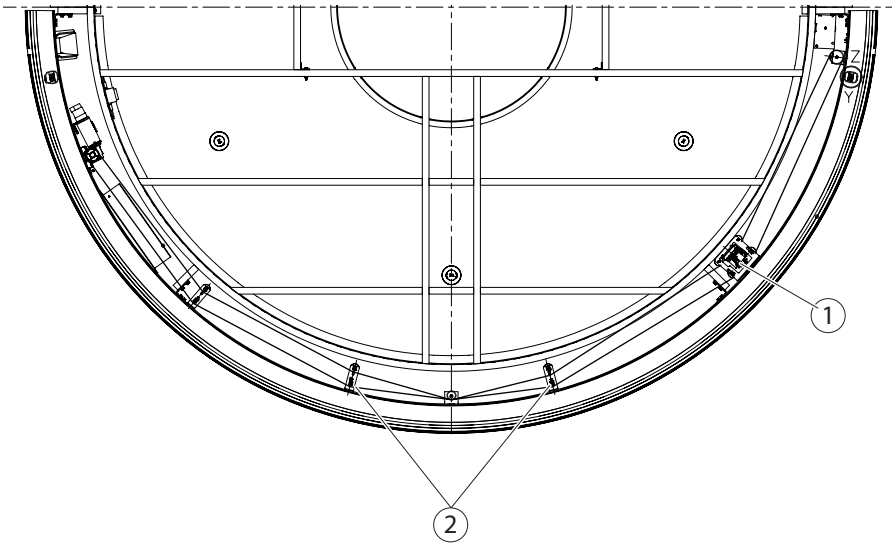
- After aligning the leaf, push the frame element tappet contact (2) into the track from below and position in the end position with the door leaf. Then attach from below using a fixing screw (3)



6.8 Installation information for IANV tooth belt guidance

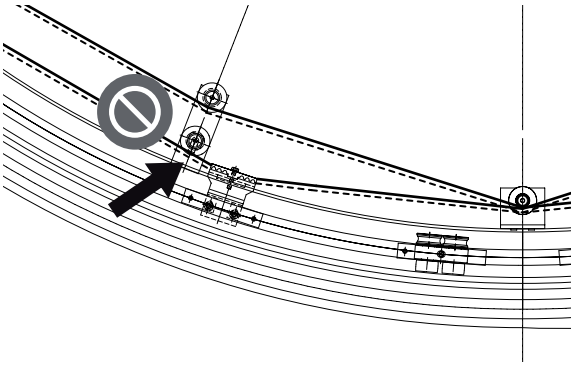
6.8.1 Position the driver in relation to the pulley holders

The distances specified on the drawing below between the driver in open position (1) and the deflector or the motor gear unit and between the two inner pulley holders (2) are defined by the installation drawing for the drive in the ceiling 70519-1-0142 and the leaf drawings 70519-1-0147 and -0148.

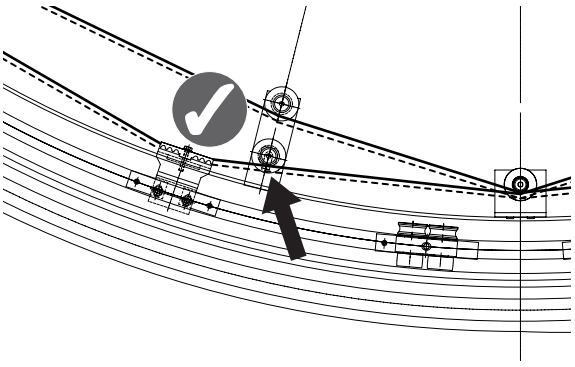


1 Driver in open position
2 Interior pulley holders

The driver may not travel so far in the direction of the closing position that the tooth belt lifts off of the inner-most pulley holder.
This greatly increases the tooth-belt tension in closing position!



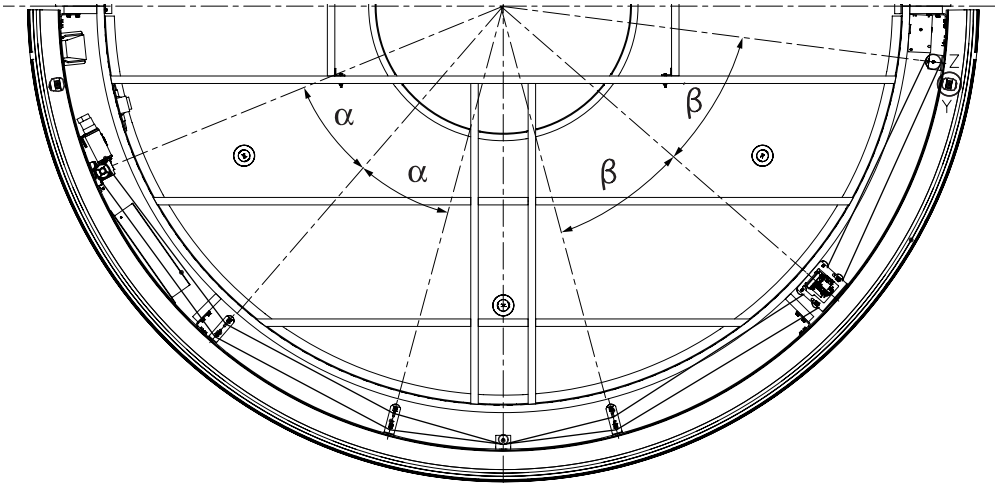
▶ Position the interior pulley holders and drivers on the leaves such that the tooth belt is still placed on the inner-most pulley holder in closing position.



6.8.2 Distributing the pulley holders

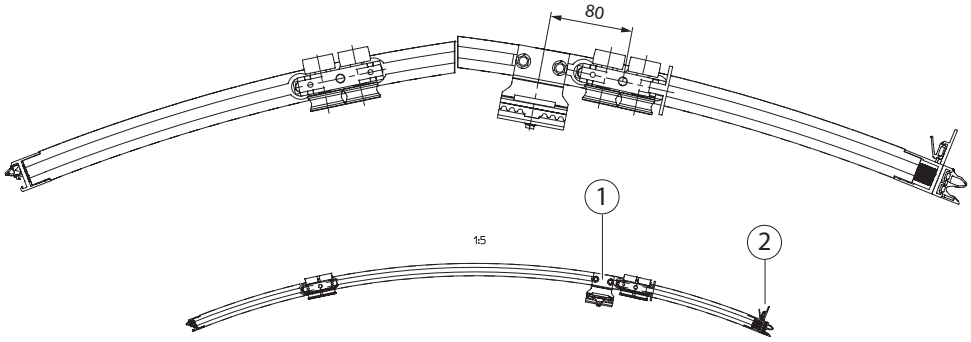
If the pulley holders are distributed unevenly, the tooth-belt tension will fluctuate greatly. This can cause the following problems:
- System cannot be taught correctly
- System does not close completely
- System outputs the error “Obstacle” during opening or closing

The position of the drivers on the leaves is defined and already pre-mounted.

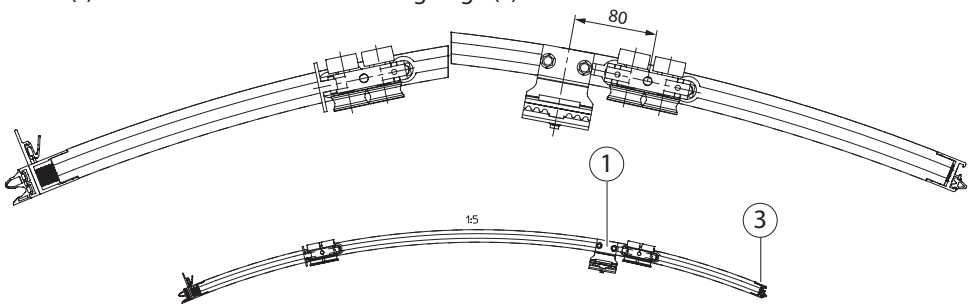


Note on how the driver positions work:
Since the drivers (1) are located in the direction of the main closing edge on one leaf (2) and in the direction of the secondary closing edge (3) on the other, there is always 1 driver **at** a pulley holder and the other **between** 2 pulley holders. This balances the belt tension.

Driver (1) in the direction of secondary closing edge (2):



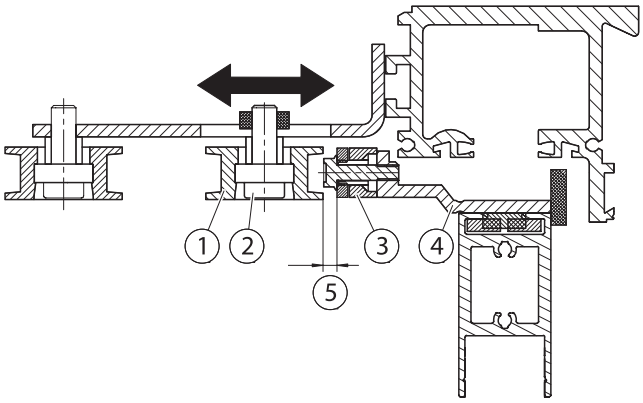
Driver (1) in the direction of main closing edge (3):



6.8.3 Set the adjustable pulley on the pulley holder

The more the tooth belt (3) lifts up from the pulleys on the pulley holder, the more the tooth-belt tension will fluctuate. Because of this, the adjustable pulley (1) must be set with the smallest possible distance (5) from the passing driver (4) after installing the leaves on all pulley holders.

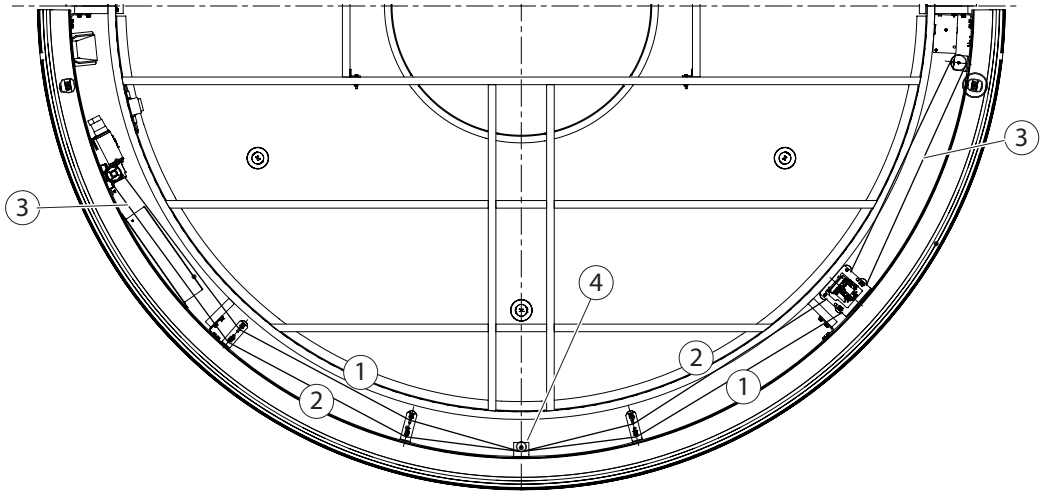
1 Adjustable pulley
2 Cylinder-head screw
3 Tooth belt
4 Driver
5 Distance



- ▶ Undo the cylinder head screw (2).
- ▶ Push the adjustable pulley (1) so that the distance (5) between the adjustable pulley (1) and the tooth belt (3) is as small as possible.
- ▶ Re-tighten the cylinder head screw (2).

6.8.4 Turned and crossed tooth belts

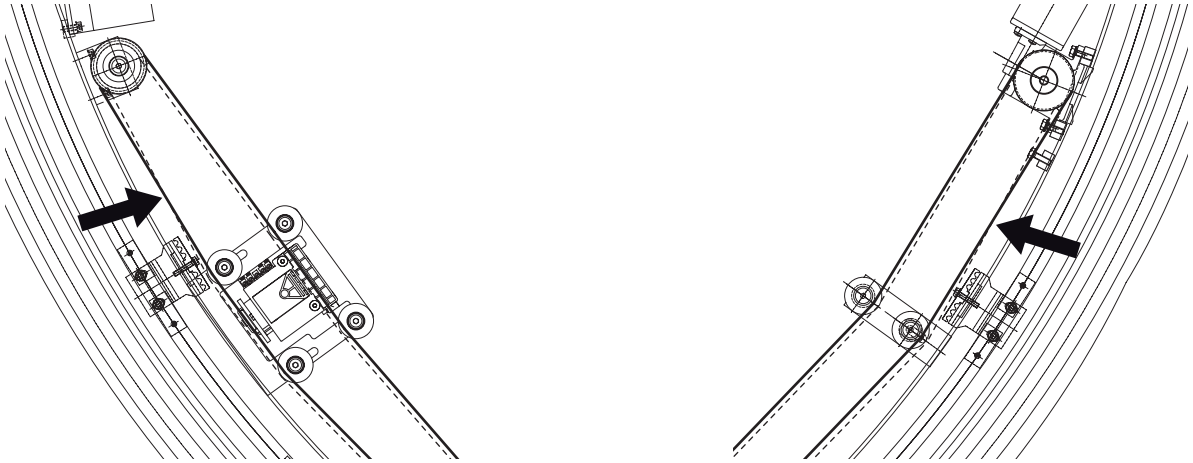
To keep the tooth belt as quiet as possible, it must run across the largest possible number of pulleys with the flat back of the belt.



1 Belt 1
2 Belt 2
3 Toothed belt turned through 180°
4 Tandem rollers

Tooth belt turning on the motor gear unit and deflection pulley

To ensure the power transmission and ensure the locking mechanism functions correctly, the tooth belt must be turned through 180° between the outermost pulley holder and the motor gear unit or deflector (see arrow).

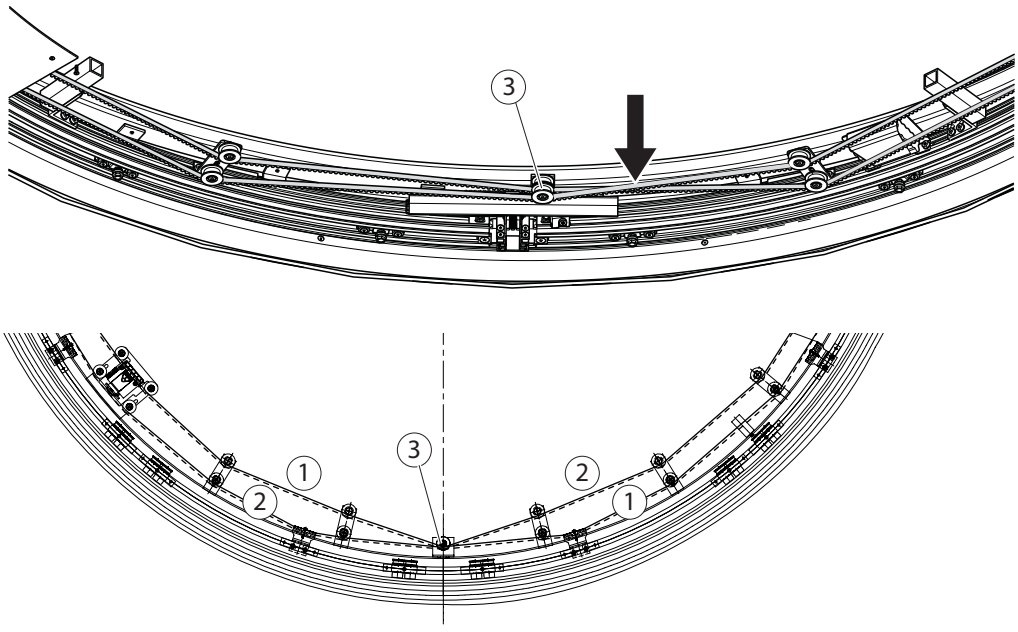


Smooth back of the tooth belt

Toothed side

Crossed tooth belts

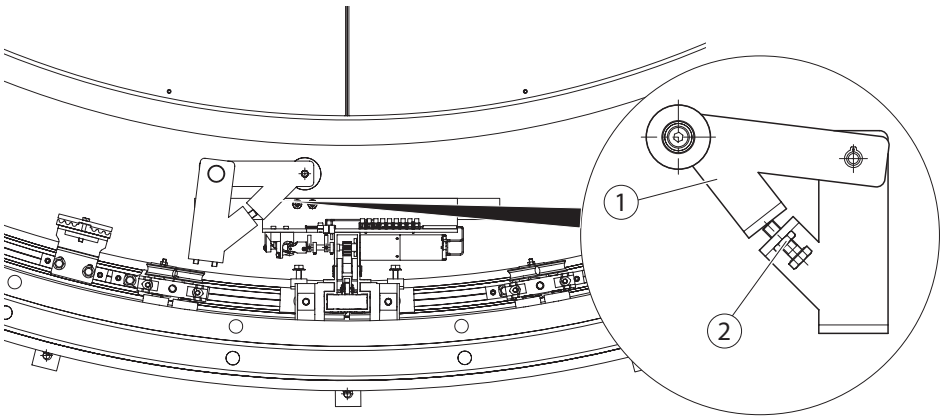
To move the leaf in the opposite direction, the tooth belts must be crossed in the centre of the system using the tandem rollers (3) (see arrow).



1 Belt 1
2 Belt 2
3 Tandem rollers

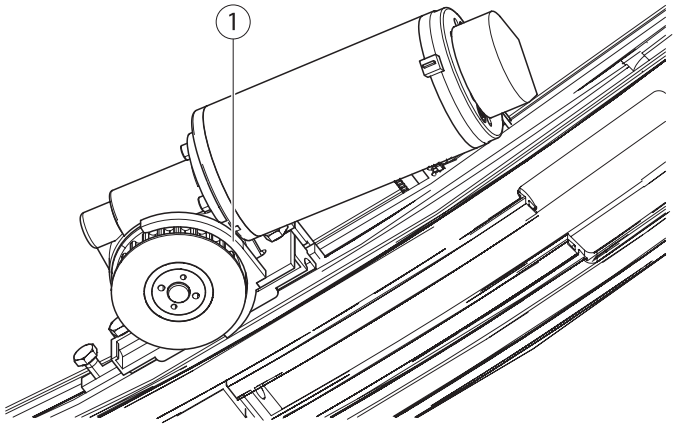
Tooth belt guidance with rod locking and inside-running night-time closer
An adjustable tandem roller is used in the area of the rod locking to guide the belt for inside-running night-time closers and guide the tooth belt around the rod locking. The position of the tandem rollers can be adjusted using an adjustment screw.

Setting the tooth-belt tension and rod locking:
- ▶ Set the tandem roller (1) using an adjustment screw (2).



6.8.5 Use of skip protection (pre-mounted)

To prevent the tooth belt skipping, skip protection (1) is mounted on the motor gear unit or on the drive pulley in the factory.



6.9 Revolving door in underfloor version (UFA)

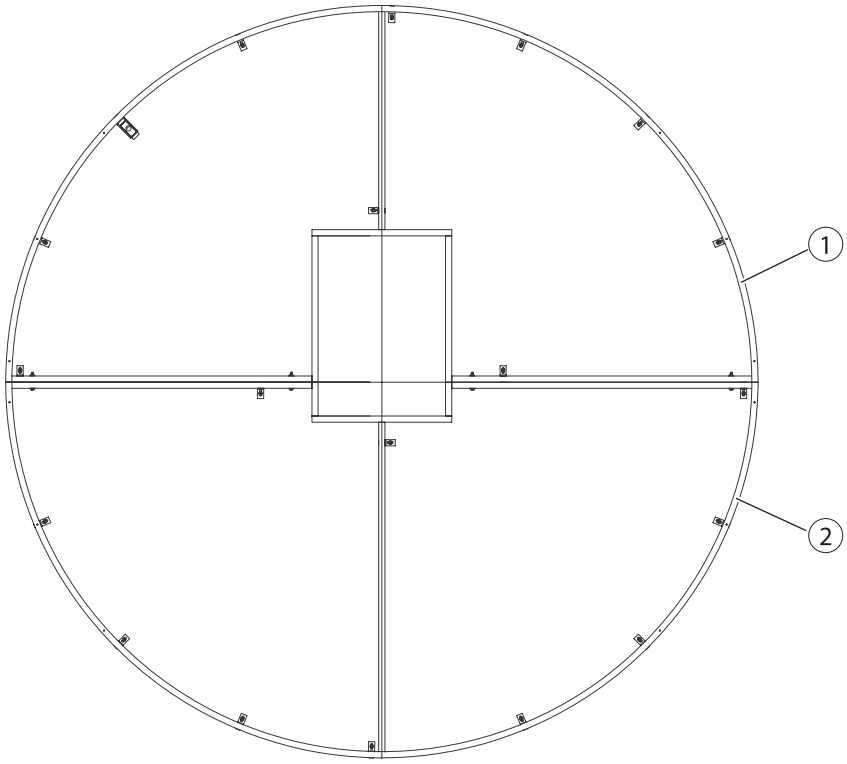
6.9.1 Box dimensions

Building design	Dimensions (length × width × depth in mm)
Revo.PRIME GG revolving door (with drive box)	871 × 614 × 180
Building shell recess	970 × 900 × 200

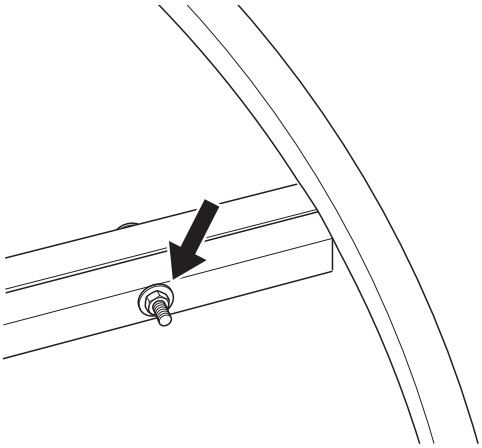
- A floor structure depth of 60 mm is sufficient at manual doors since no drive box is installed.
- In general, where a drive box is installed, there must always be a drain connected to on-site floor guide drainage and the respective empty pipes for wiring the drive must be connected.

6.9.2 Mounting the floor ring and drive box

▶ Lay 2 floor ring halves (1) and (2) together.

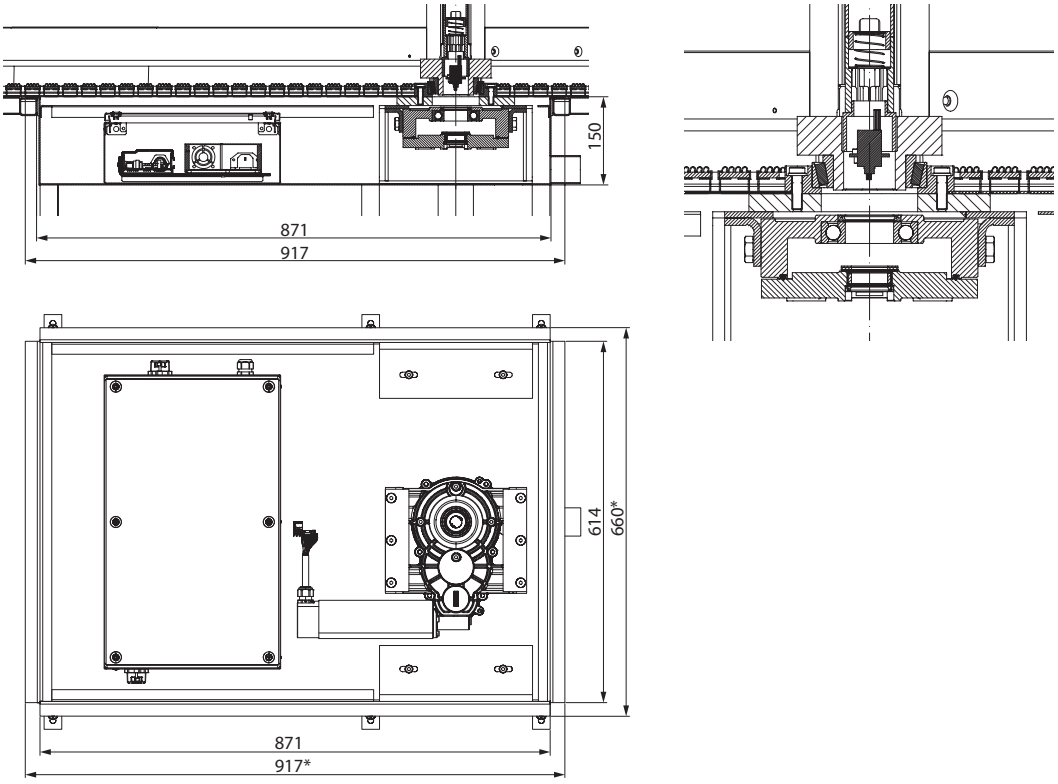


▶ Screw the 2 floor ring halves together using screws, nuts and washers.



▶ Determine the position of the floor ring.
▶ Specify the position of the drive box and align it correctly.

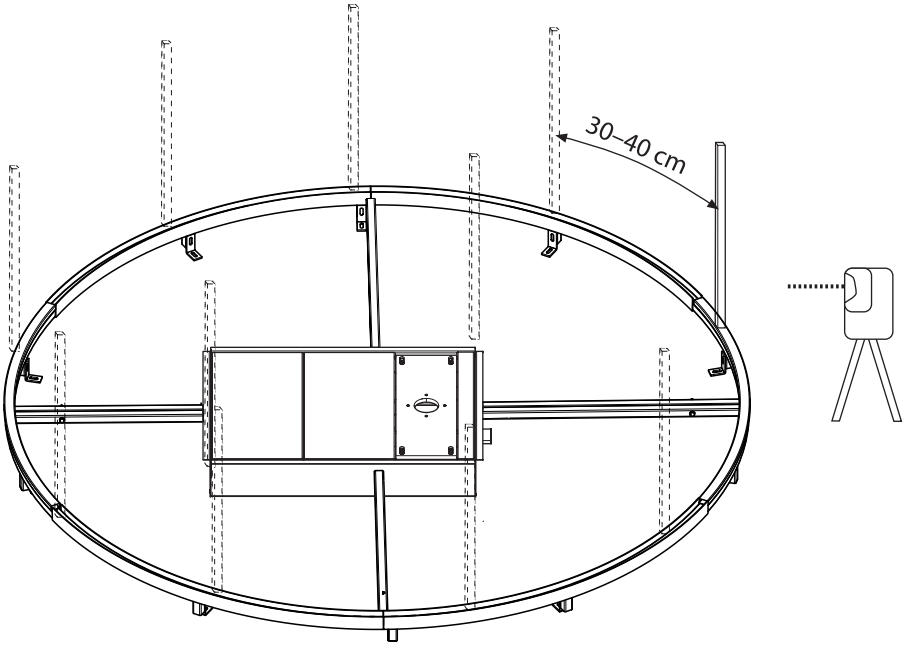
Drive box dimensions



*) with angle frame

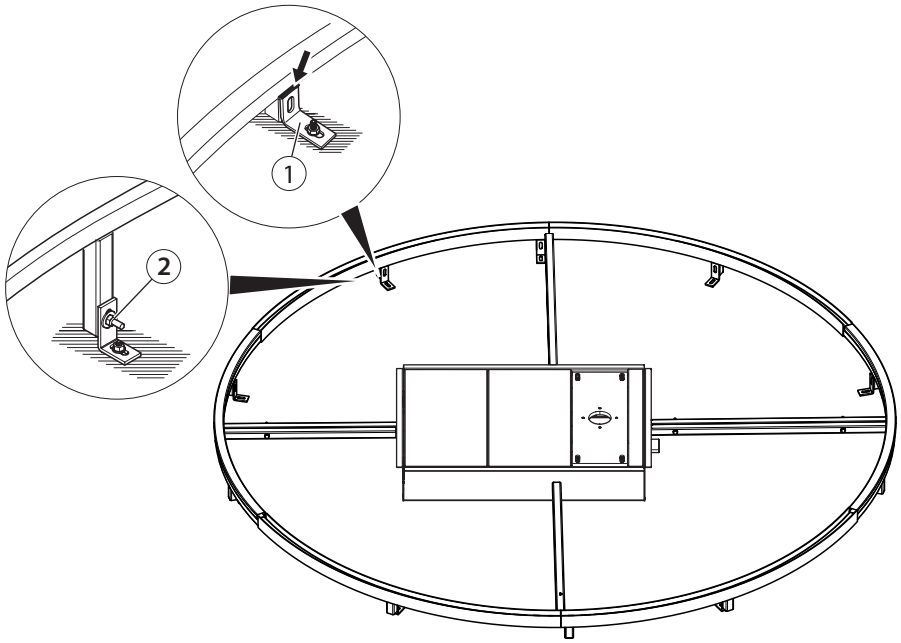
6.9.3 Aligning the floor ring

- Align the floor ring and drive box every 30–40 cm using a levelling device and underlay it.
- Align the drive box correctly.
  The top edge of the drive box is 24 mm lower than the top edge of the floor ring.



6.9.4 Screwing the floor ring together

- ▶ Screw the levelled floor ring and drive box to the unfinished floor using the brackets (3).
- ▶ Weld the bracket (3) to the base of the floor ring or of the drive box.



- ▶ The drive box and the guides for the night-time closer in the floor have to be connected to a functioning floor guide drainage by means of the empty pipes supplied (approx. 10 m).

- ▶ Lay the empty pipe for the cabling of the sensors and power supply of the drive.

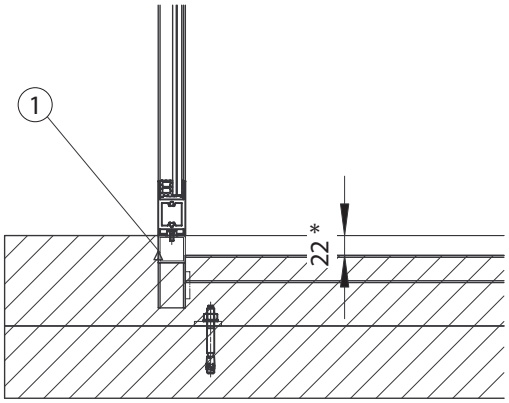
- ▶ Before filling the hole with screed check whether the corresponding conduits for all the required cables have been laid and the connected floor guide drainage functions.

- ▶ Close the drive box with the supplied stainless steel panels.

6.9.5 Filling the floor ring space with screed

- ▶ Take the screed height in the floor ring into account.
  The dimension of 22 mm in the drawing below refers to the standard entrance mats from GEZE.
  - ▫ GEZE recommends sealing the surface of the screed in interior areas.

- ▶ Pour screed into the drive box and floor ring (1).



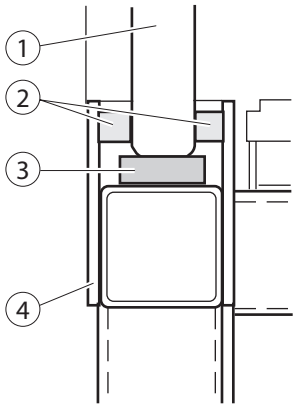
* refers to the standard GEZE entrance mats

6.9.6 Installing the drive

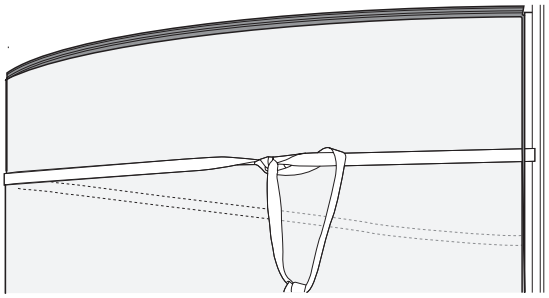
- Open the stainless steel panel of the drive.
- Install and connect the motor gear unit and drive.
- Wire up the sensors.
- Use the valid wiring diagram for wiring and future commissioning.

6.9.7 Inserting side panels

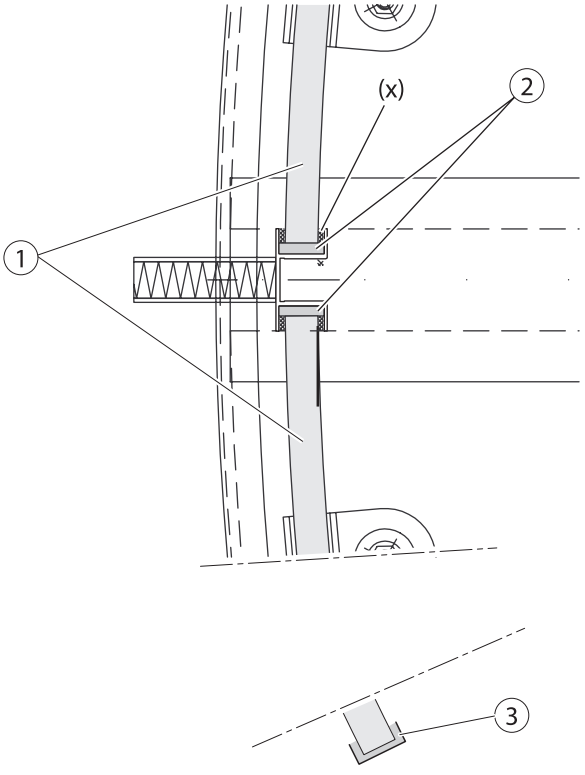
- Insert the approx. 4 mm high glazing packers (3).
- Place the side panels (1) on the floor ring (4).



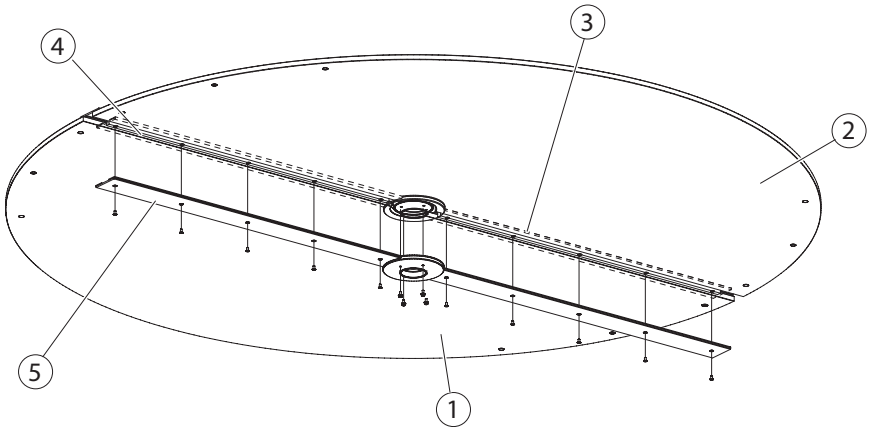
- Secure the inserted side panels against falling over by using a strap in the upper third.
- Align the side panels exactly.
- After mounting has been completed, seal the open gaps (2).



- Support the side panels (1) in the side panel joint using glazing packers (2) at the joint.
- Ensure that the gap (x) is a minimum of 2–3 mm wide on the inside in order to ensure sufficient sealing.
- Use a sufficient amount of silicone (3) on the joint to the mullion (2–3 mm).

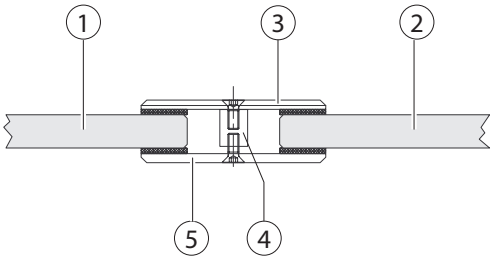


6.9.8 Placing in the ceiling glasses



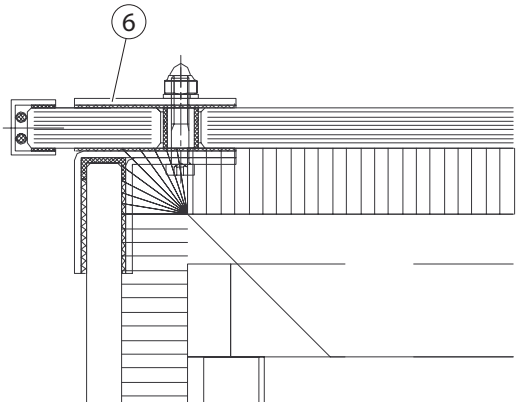
1 First ceiling glass
2 Second ceiling glass
3 Top part clamping profile
4 Spacer
5 Bottom part clamping profile

- ▶ Place the first ceiling glass (1) on the vertical glass side panels.
- ▶ Screw the top clamping profile (3) into the spacer piece (4).
- ▶ Place the second ceiling glass (2) with the top part of the clamping profile (3) between the glass halves on the vertical glass side panels and screw in loosely.

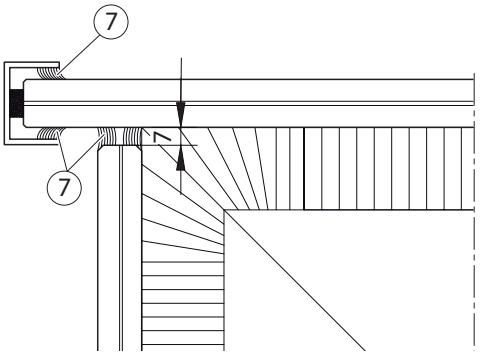


- ▶ Loosely screw in the bracket holders (6).

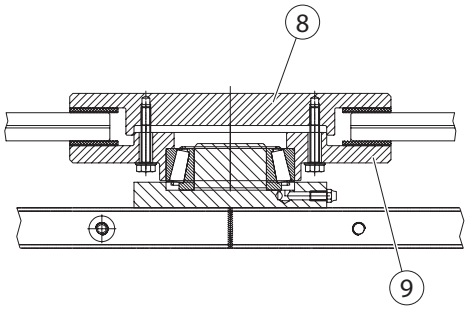
4–6 bracket holders are mounted per ceiling glass (see below).



- ▶ Seal the gap between the side panel and drum wall with clear silicone (7).

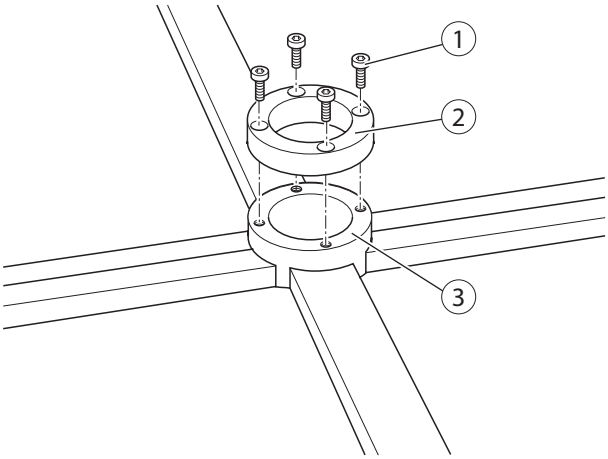


- Screw the ceiling bearing shells (8) into the top part of the clamping profile and align the mounting to the bottom floor-mounted pivot bearing (9).
- After aligning, screw all bracket holders firmly to the clamping profile.

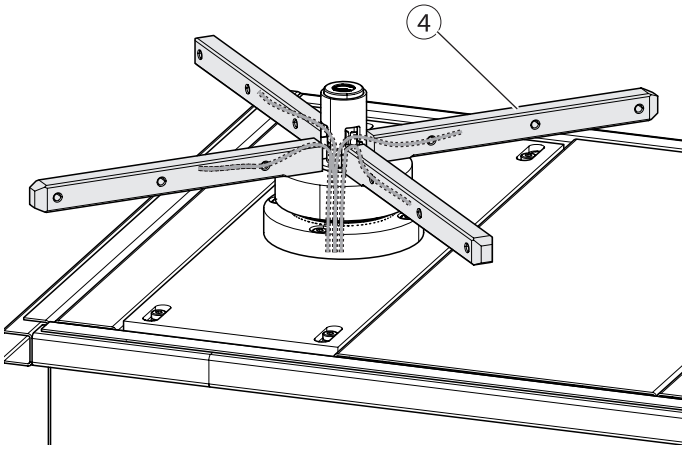


6.9.9 Mounting the pivot bearing and turnstile below

- Screw the bearing ring (2) to the bearing plate (3) using the 4 screws (1).
- Grease the bearing housings of the bearing ring well.



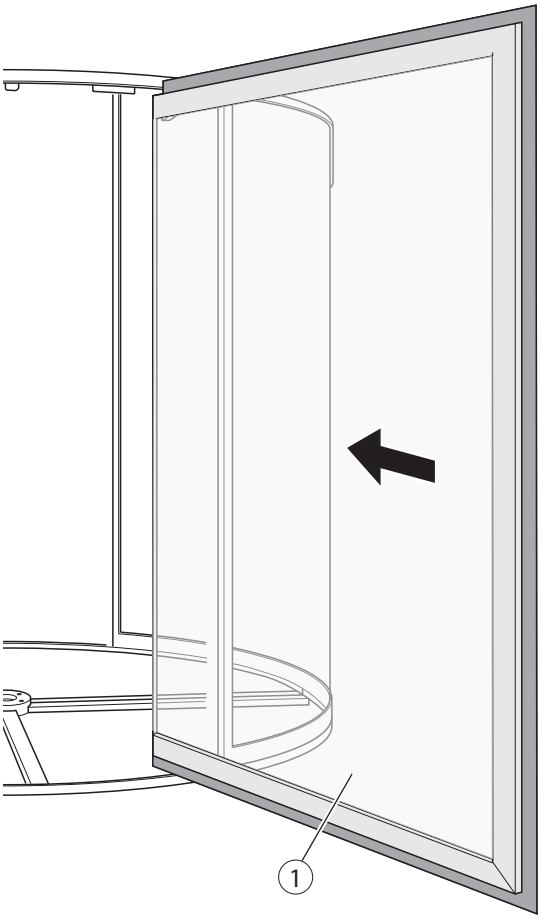
- Mount the turnstile (4) on the pivot bearing.



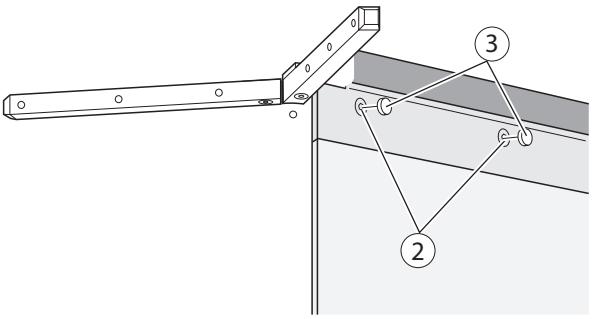
6.9.10 Inserting the door leaves

WARNING!
Danger of injury through falling top turnstile!
- Secure the upper turnstile against falling down before inserting the first door leaf.

- Slide the door leaf (1) onto the bars of the turnstile and screw them on.



- Screw the door leaf to the upper turnstile with screws (2).
- Insert the 2 cover caps (3) (accessories).

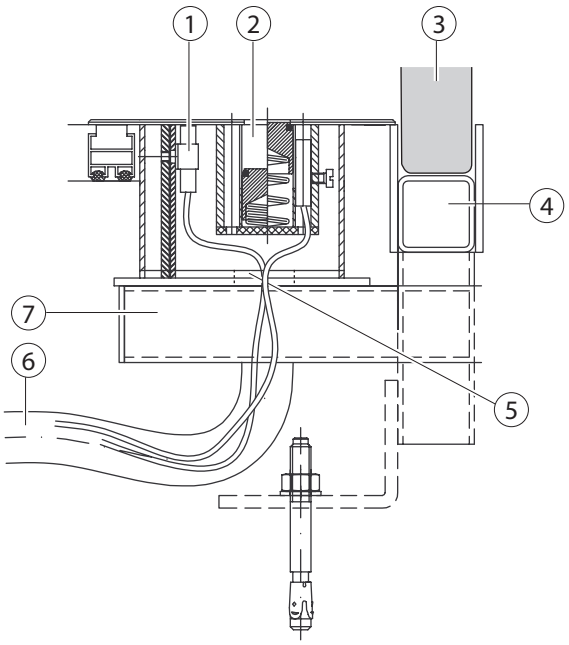


6.9.11 Wiring the door system

▶ **Wire the door system in accordance with the wiring diagram.**

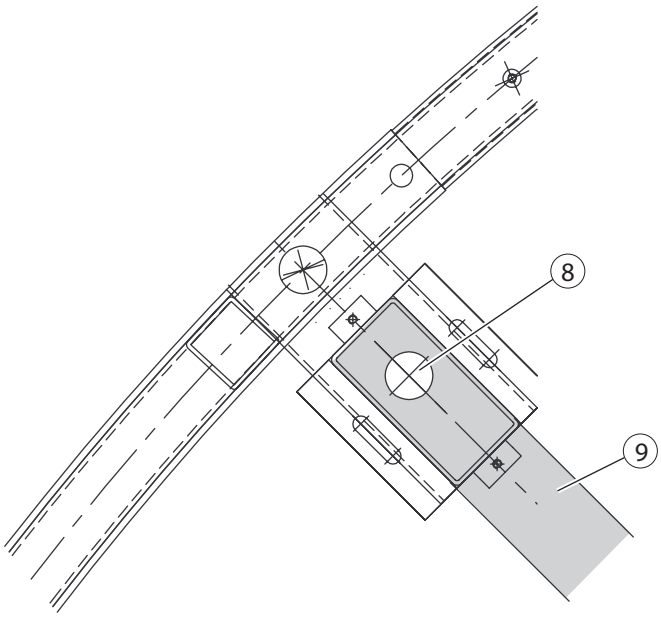
Vertical section of the side panel and locking point:

1 Init sensor for the zero point
2 Opening for the locking mechanism
3 Side panel
4 Floor ring
5 Hole for cable penetration
6 Empty pipe D = 20 mm
7 Cable guide



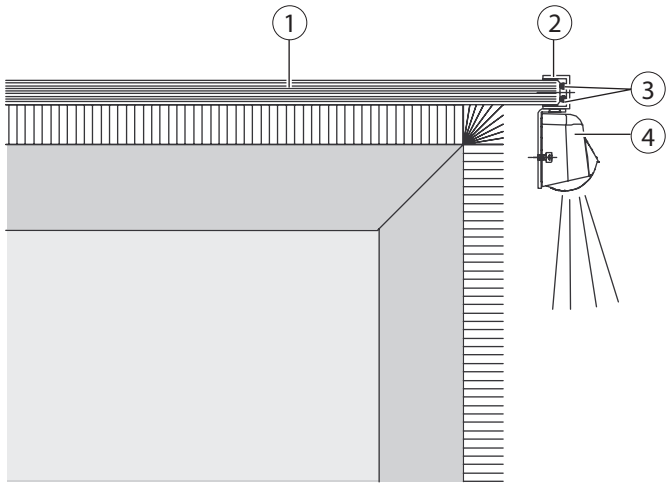
Position of the locking mechanism at the floor ring:

8 Hole for vertical rod
9 Door leaf



6.9.12 Wiring and fastening the sensors

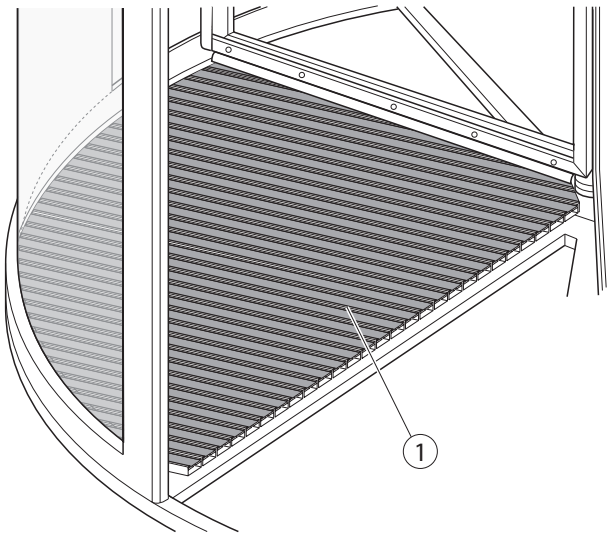
The cables (3) of the radar movement detector and of the sensor (4) for protection of the leading mullion can be concealed in the canopy profile (2) of the ceiling glasses (1) and threaded downwards through the post or through the cavity in the side panel joint.



6.9.13 Installing the entrance mats



- ▶ Close the sheeting of the drive box after commissioning has been completed.
- ▶ Install the entrance mats (1) according to the installation plan (see chapter 5.5.3).



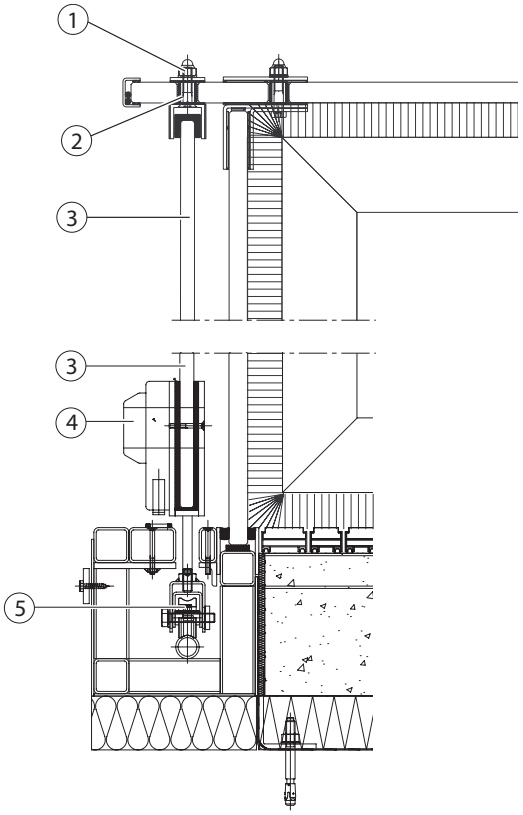
6.9.14 Mounting the manual night-time closer outdoors

When equipped with a night-time closer, the ceiling glass is cut larger on the outside and has holes so that the guide rail can be screwed on at the top.

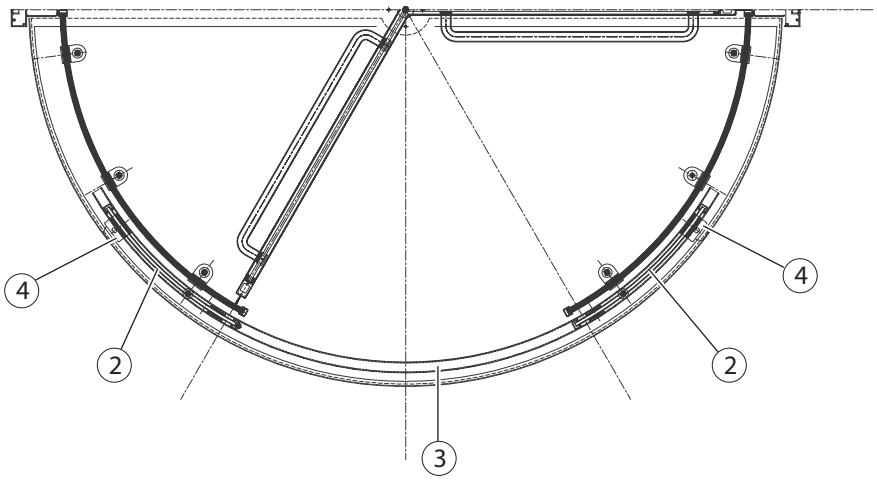
- ▶ Remove some roller carriages and sickle plates.
- ▶ Insert roller carriages and adjust to the door height and alignment on the roller carriage using an adjustment screw.
- ▶ Mount the sickle plates.

Vertical section of the ceiling glass with guide for the night-time closer:

1 Screw fitting
2 Guide rail
3 Night-time closer glass door
4 Floor lock
5 Night-time closer guide



Horizontal section of the night-time closer:



6.10 Speed limiter unit for Revo.PRIME

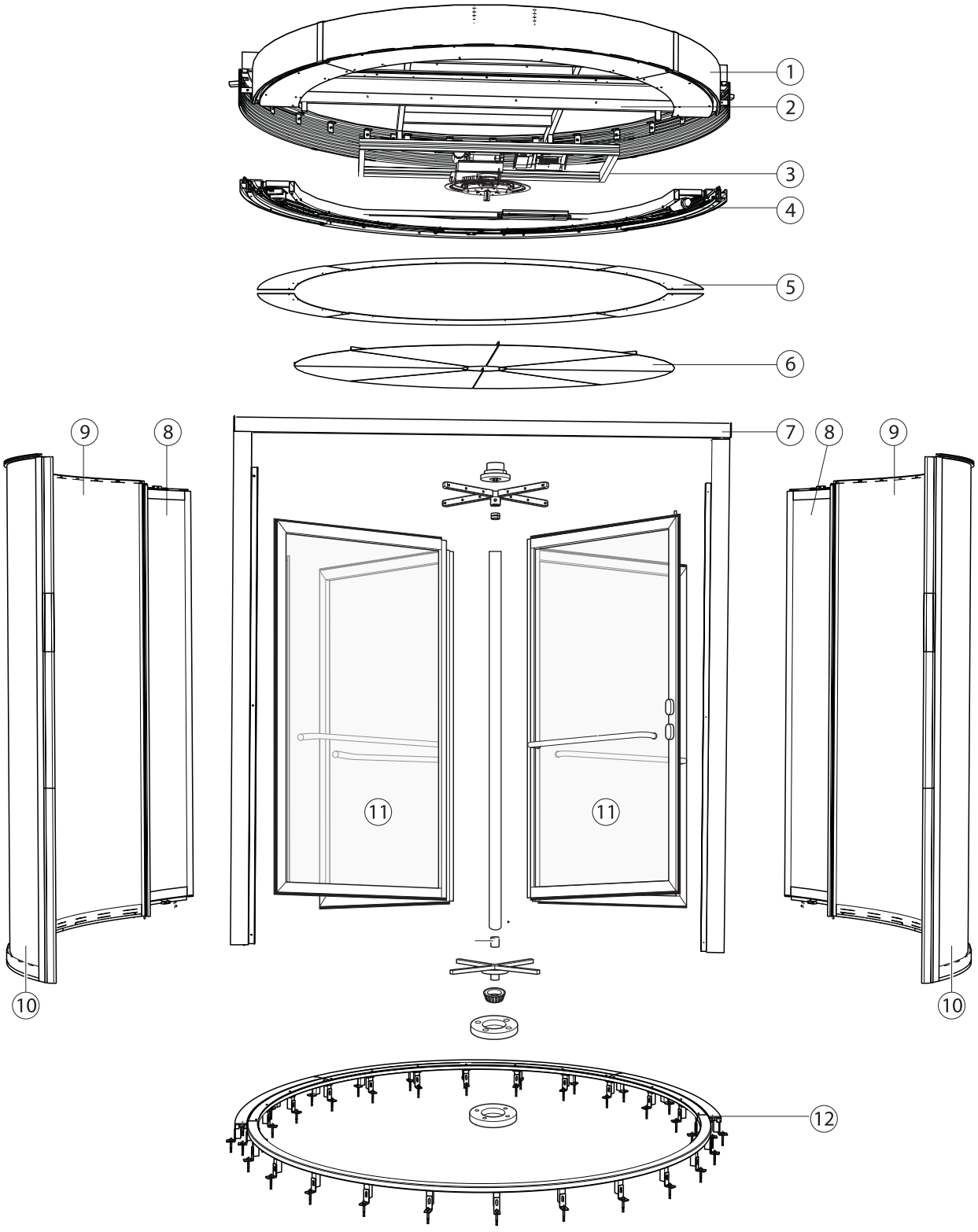
The speed limiter Revo.PRIME is mounted in the same way as for fully automatic drive (see chapter 5.2.7 – 5.2.16. Installation of the collector ring, the DCU604 and other safety devices is not applicable.

- ▶ Please follow the instructions on the wiring diagram for setting the parameters.

7 Revo.PRIME RC 2 revolving door

7.1 Assemblies and parts

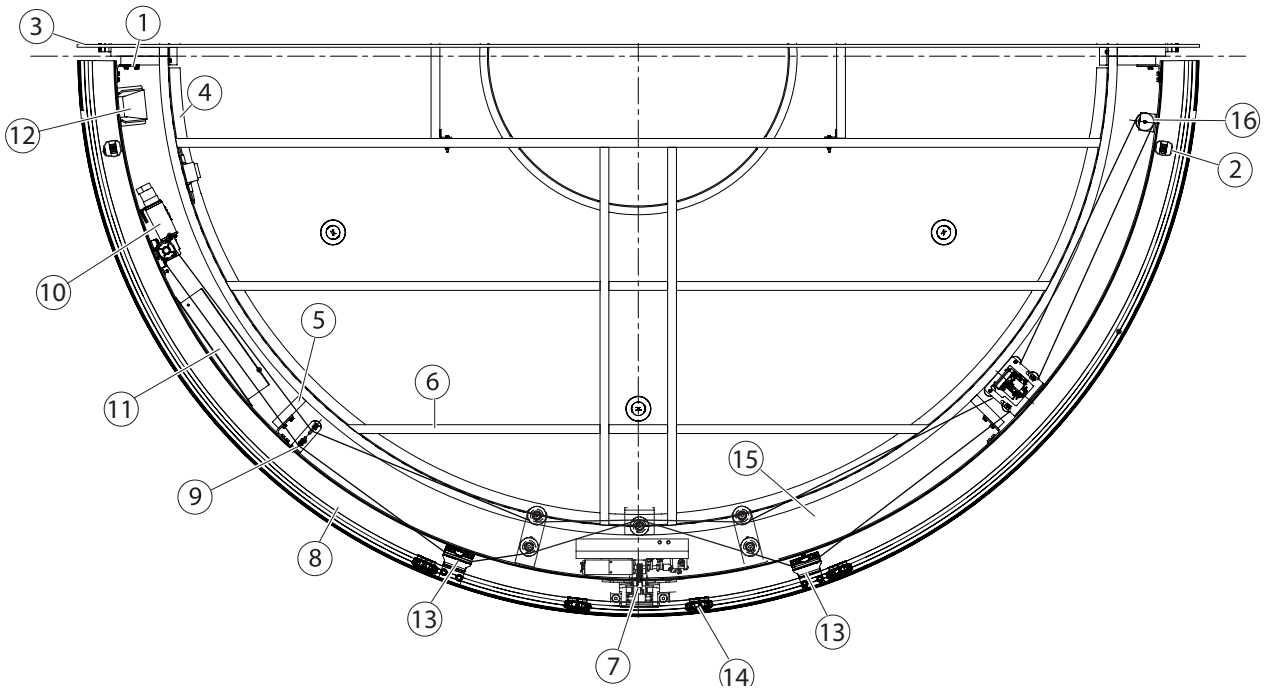
Burglar-resistant doors are complete elements and require careful installation. The connecting walls/façades must have a structure that conforms to at least DIN EN 1627.



1	Ceiling	5	Sickle plate	9	Exterior side panel
2	Ceiling base construction	6	Ceiling panels	10	LV leaf
3	Conversion kit motor gear unit	7	Portal	11	Side-hung leaf
4	LV drive unit	8	Interior side panel	12	Floor ring

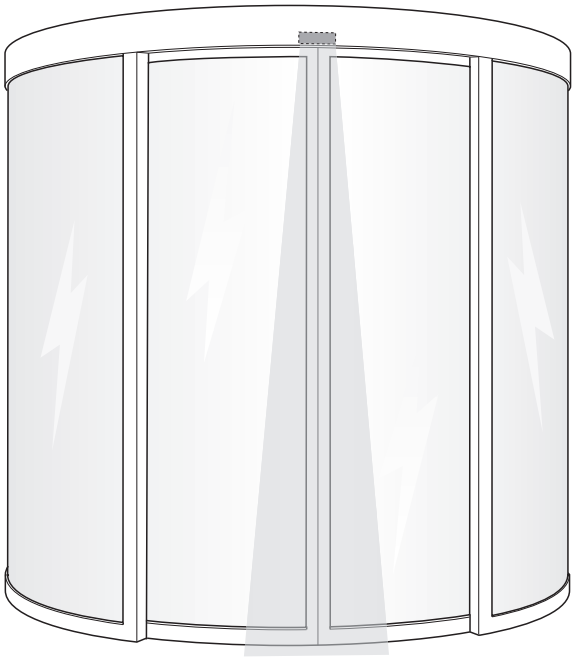
7.2 Revo.PRIME RC 2 revolving door

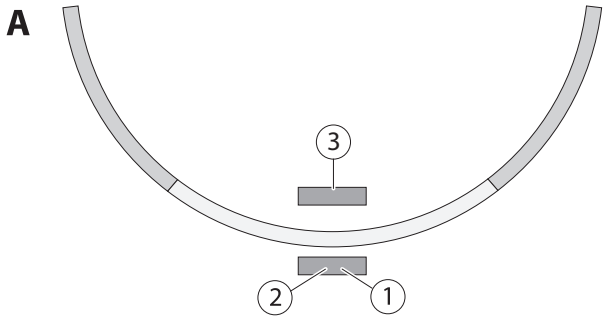
7.2.1 Night-time closer drive (IANV)



1	Connecting bracket	10	Earthing connection
2	Stop buffer	11	DCU 1 motor gear unit
3	Façade bracket	12	Control unit
4	Frame tube, inside	13	Rechargeable battery
5	Fastening tube	14	Transformer
6	Reinforcing brace ceiling	15	Driver
7	Rod locking device	16	Roller carriage
8	Cover profile	17	Tooth belt
9	Pulley holder	18	Deflection pulley

7.2.2 Safety sensor activation device – LV drive





A Sensor package for interior LV systems

1 Rain cover to protect the active infrared detector outdoors (optional)

2 GC 339
Active infrared detector to protect the main closing edge for automatic night-time closers

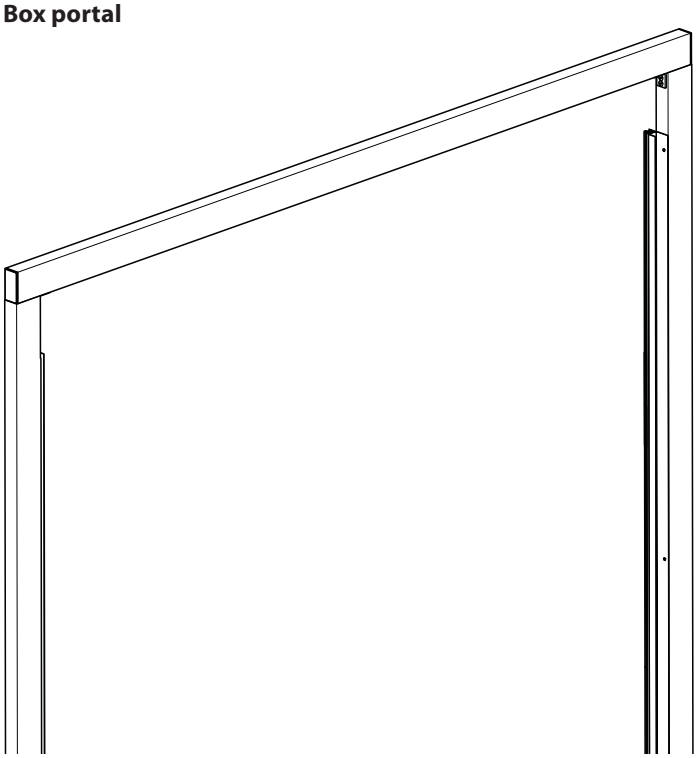
3 Ceiling installation kit

7.2.3 Portals

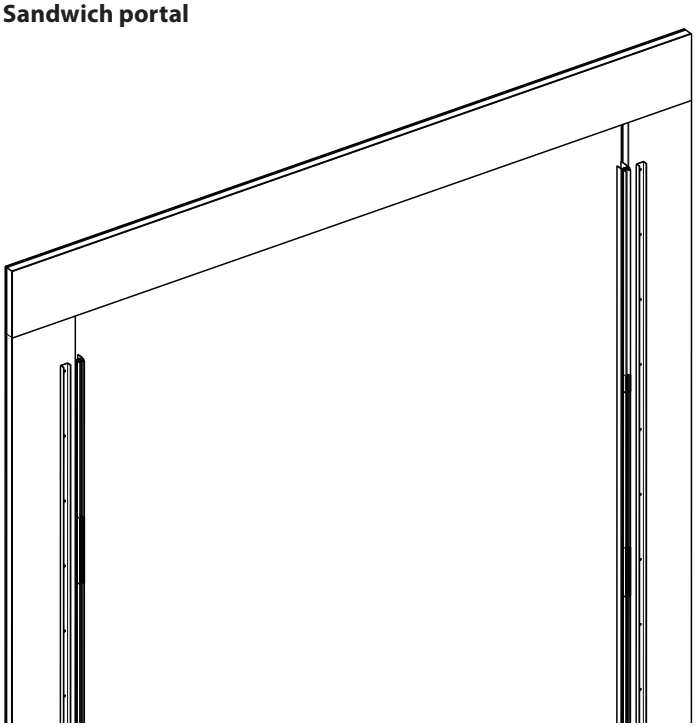
2 types of portals can be installed on the Revo.PRIME RC2 revolving door:

- Box portal
- Sandwich portal

Box portal



Sandwich portal



7.3 Installation Revo.PRIME RC 2 revolving door

Installation of the Revo.PRIME RC 2 revolving door is identical in many respects as installation of the Revo.PRIME revolving door. This chapter describes the installation steps that differ from installation of the Revo.PRIME revolving door.

7.3.1 Mounting the floor ring

see chapter 5.2.1 Mounting the floor ring on page 8

7.3.2 Aligning the floor ring

see chapter 5.2.2 Aligning the floor ring on page 9

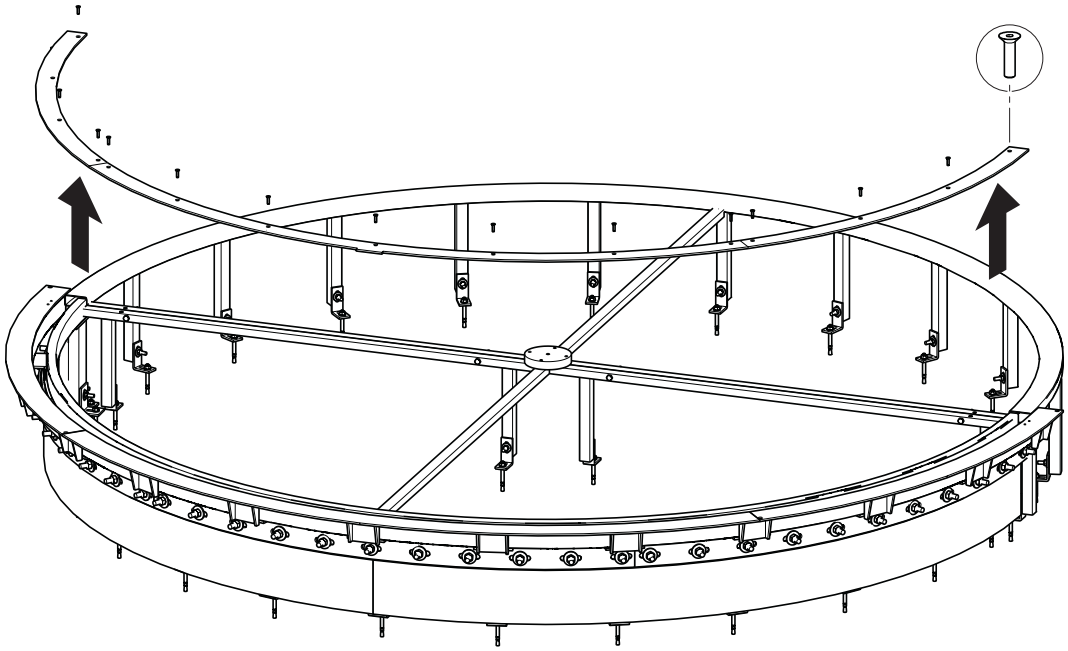
7.3.3 Fastening the floor ring to the subsurface

see chapter 5.2.3 Fastening the floor ring to the subsurface on page 10

7.3.4 Filling the floor ring space with screed

- ▶ Before pouring the screed, ensure that the bases are installed and the floor ring is aligned.

7.3.5 Removing the sickle plates



7.3.6 Mounting the ceiling canopy

see chapter 5.2.5 Installation without floor ring on page 11

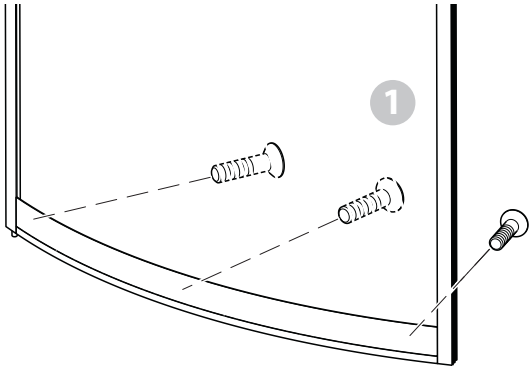
7.3.7 Mounting the drive unit

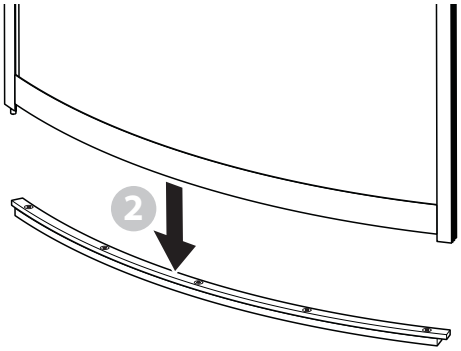
see chapter 5.2.7 Mounting the drive unit on page 14

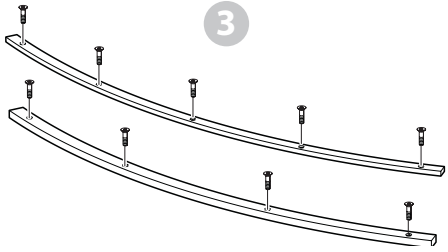
7.3.8 Placing blocks for side panel profiles

see chapter 5.2.8 Lifting the ceiling canopy on page 15.

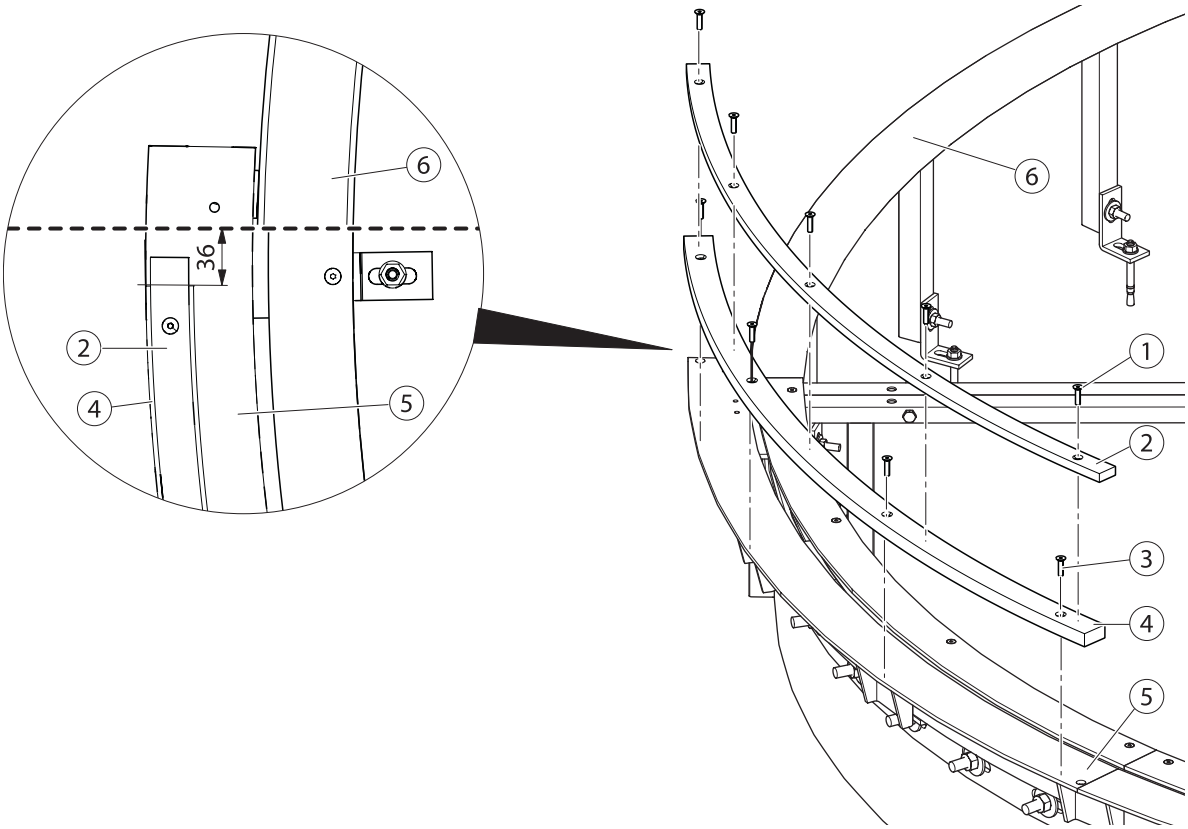
7.3.9 Loosen the floor strips from the RC 2 outside side panel







7.3.10 Attach the floor strips from the RC 2 outside side panels to the outside of the floor ring

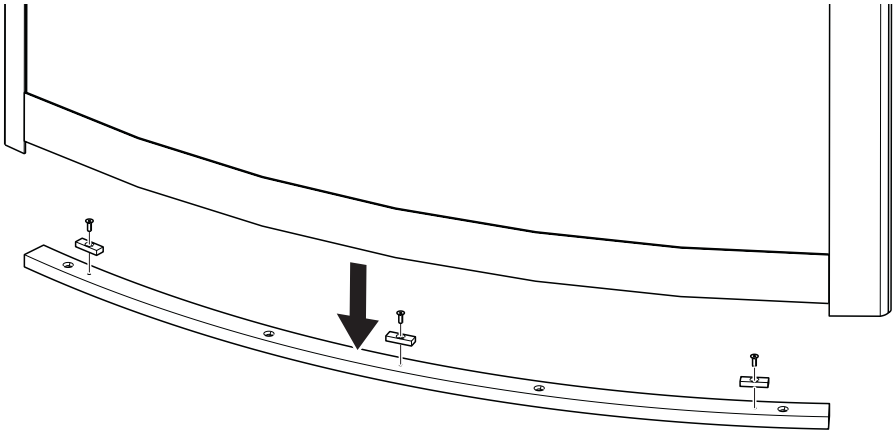


1 M5 × 20 countersunk head screw
2 Upper floor strip
3 M5 × 20 countersunk head screw
4 Bottom floor strip
5 Outside floor ring
6 Inside floor ring

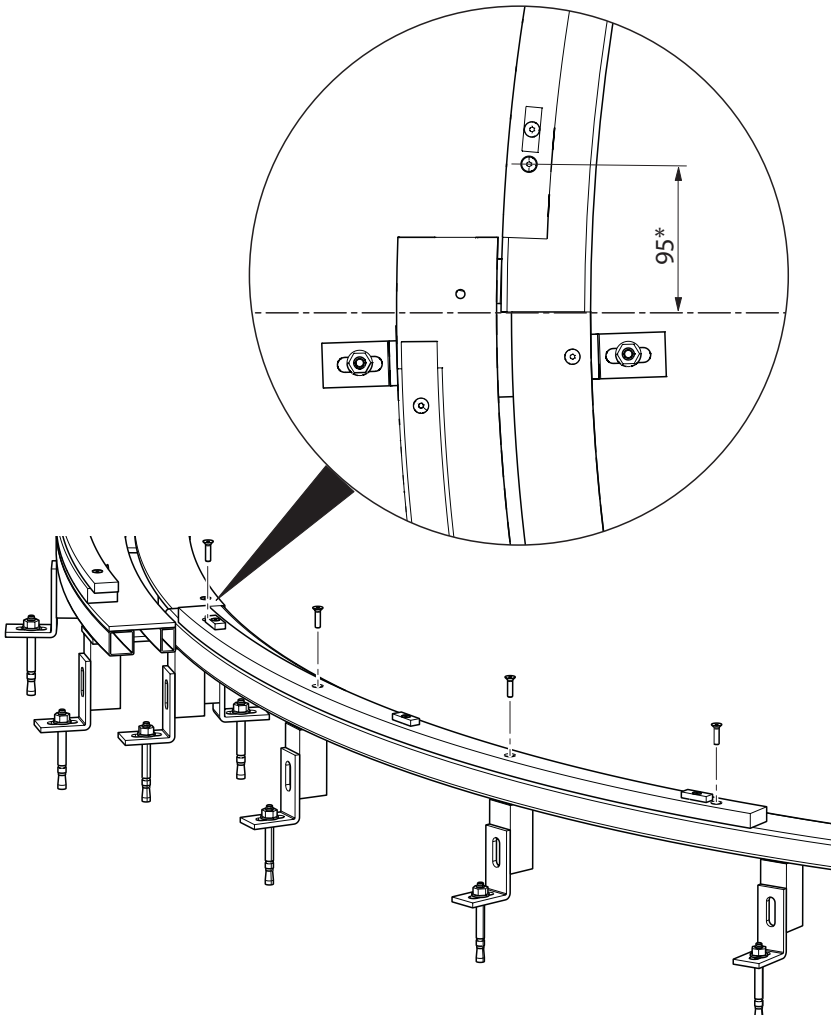
- ▶ Set the lower floor strip (4) on the outside floor ring (5) so that the outer edge of the floor strip is flush with the outer floor ring.
- ▶ Attach adhesive seals under the external side panels and also under the profiles to seal against non-pressurised water.

7.3.11 Loosen the floor strips and blocks from the inside RC 2 side panel

Optionally, cylinder head screws with a head diameter of 10 mm (M6 DIN 912) can be used instead of the blocks.



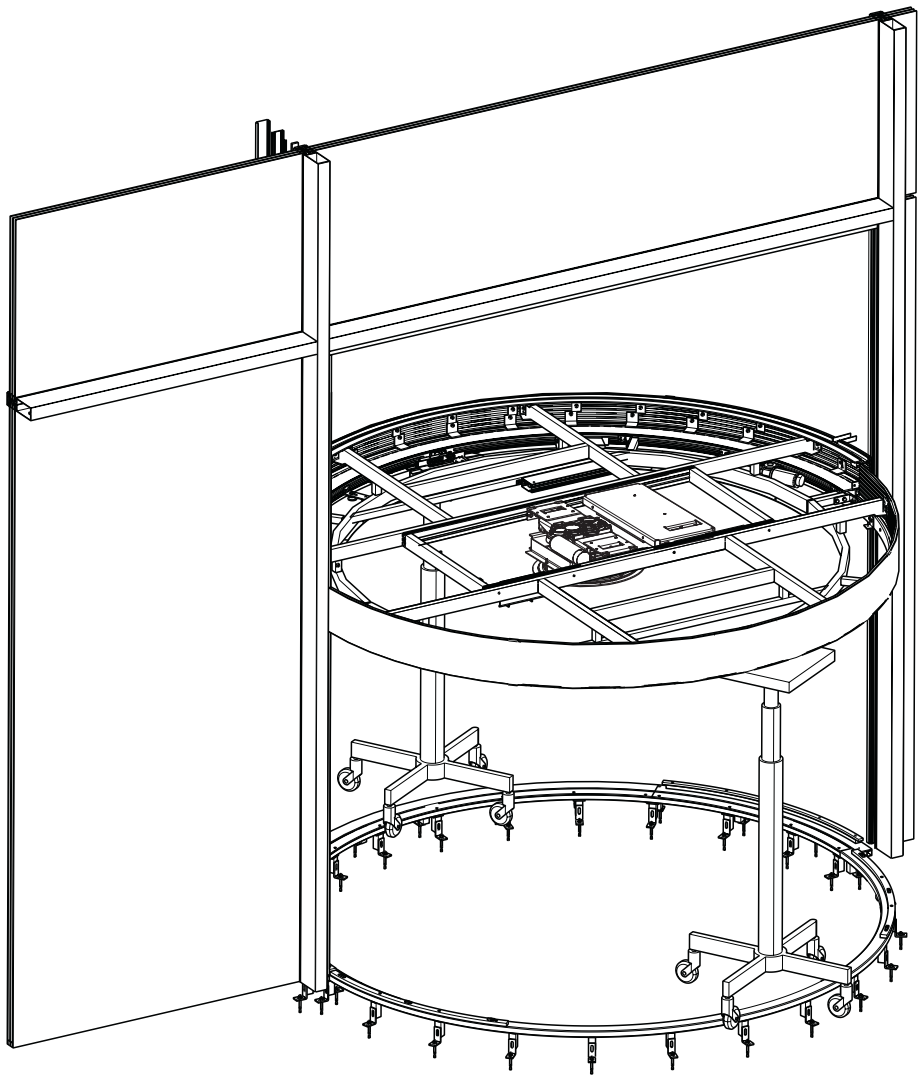
7.3.12 Attach the floor strips from the RC 2 inside side panels to the floor ring



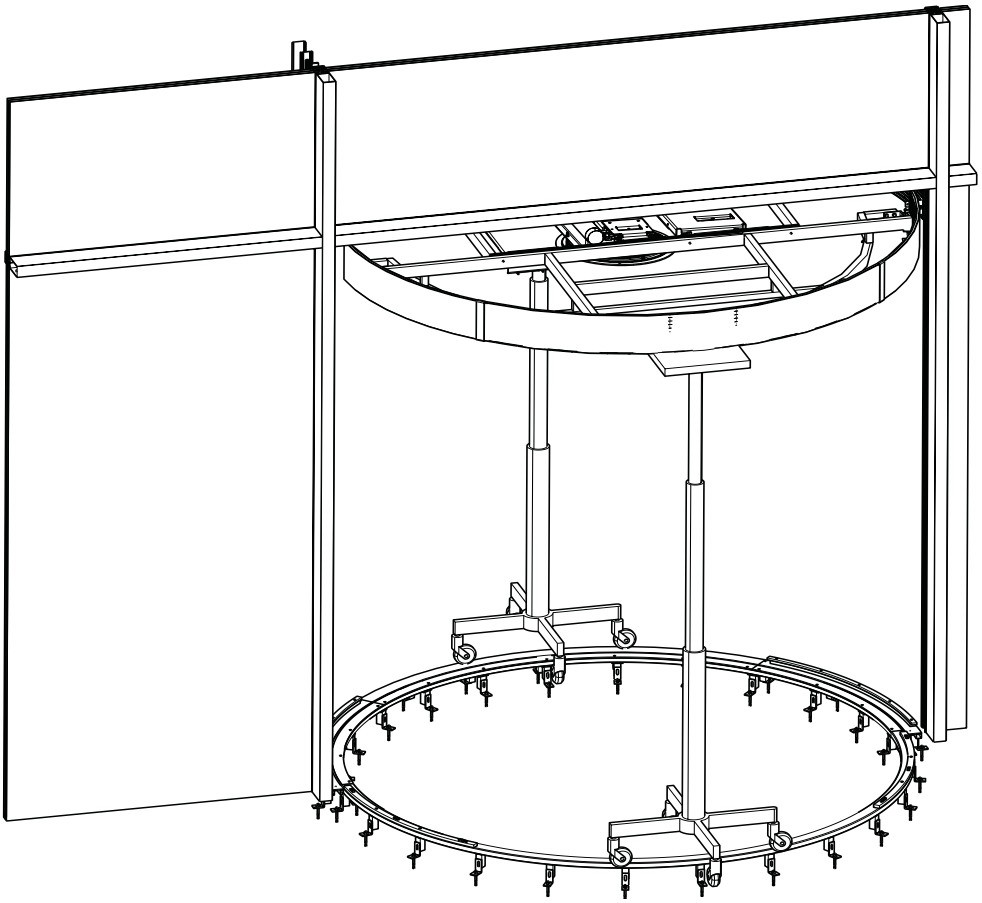
* The size depends on the portal width.
The size will be 95 mm for a portal width of 50 mm.

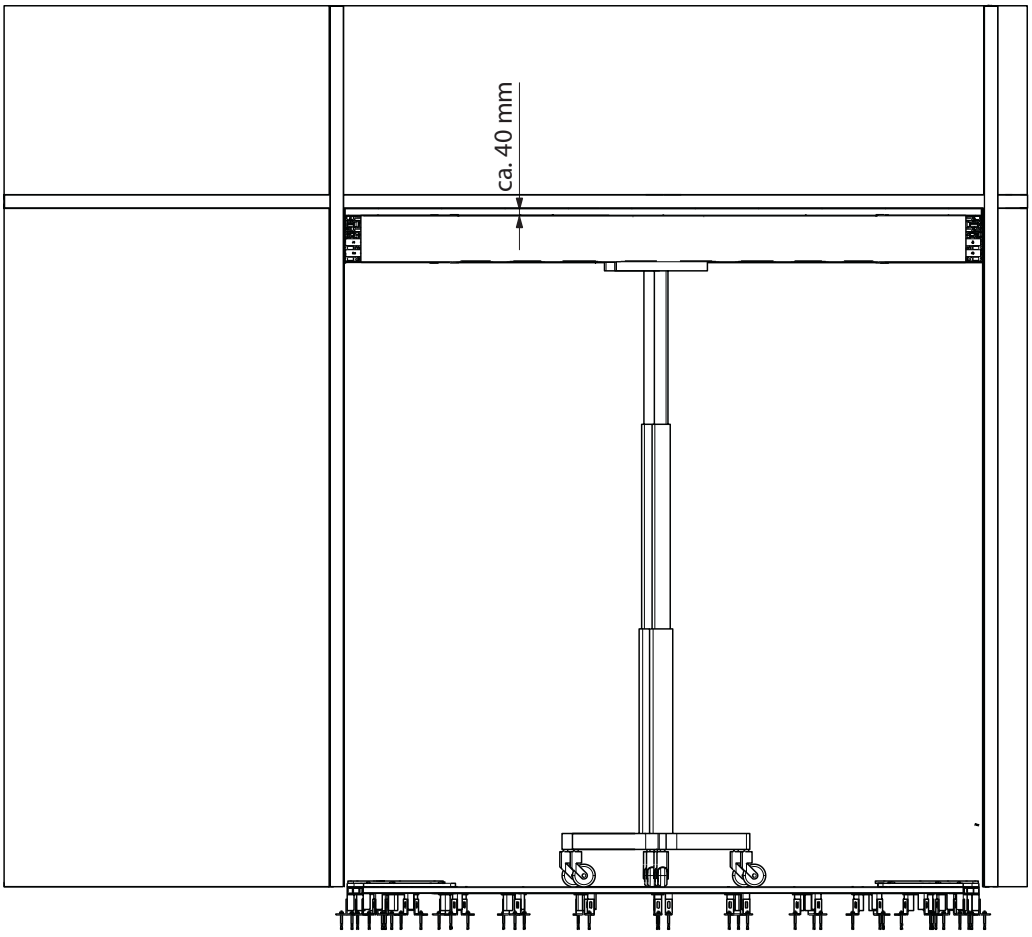
7.3.13 Lifting the ceiling canopy

WARNING!
The ceiling canopy is very heavy (approx. 200 kg).
Risk of injury due to falling ceiling canopy.
- Only lift the ceiling canopy by means of suitable aids (e.g. pneumatic press).
- Do not stand under the raised ceiling ring.
- Check the weight and weight distribution in the ceiling construction before lifting!
- Use lifting tools adapted to the weight of the ceiling construction.



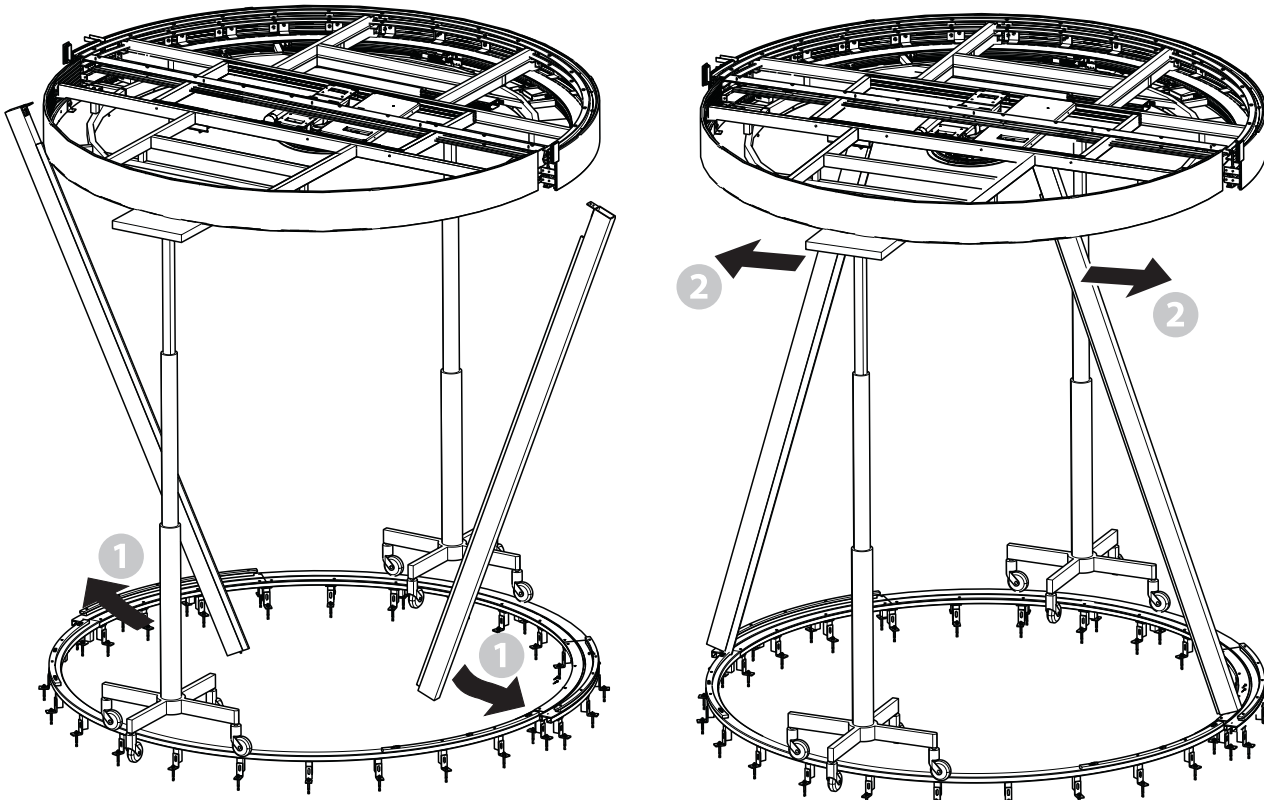


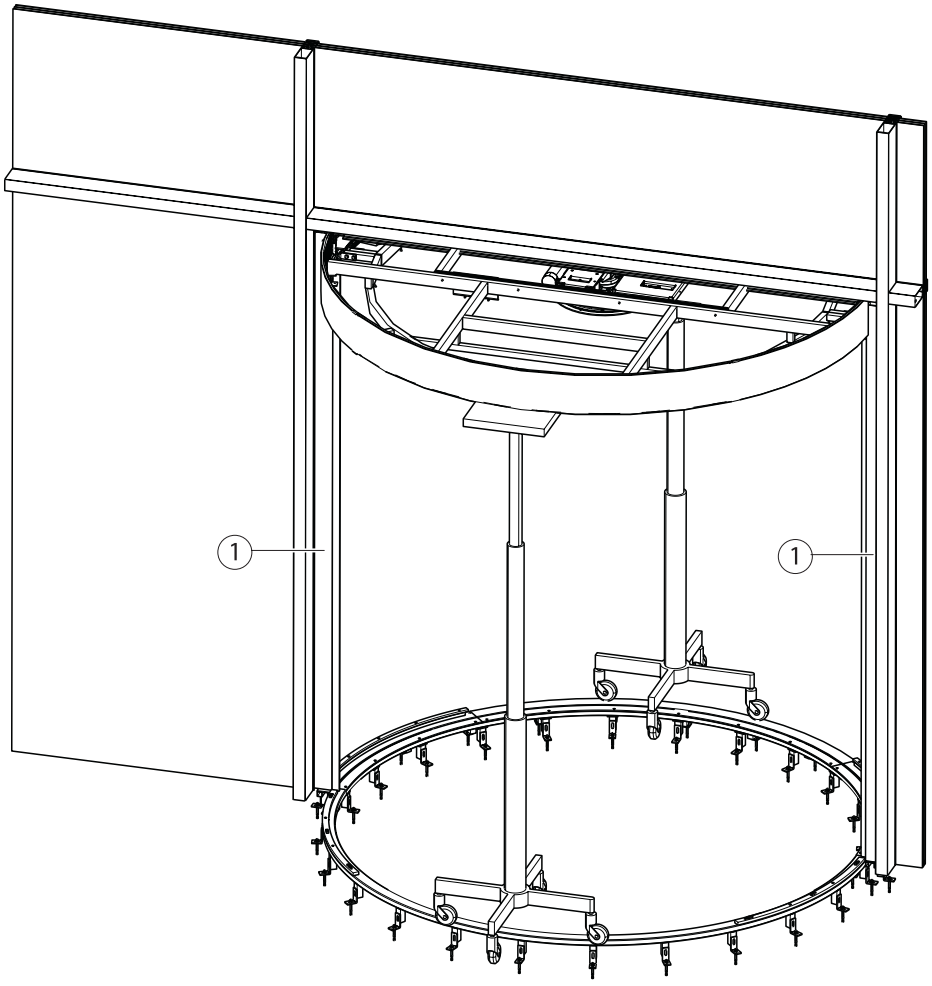




▶ Lift the ceiling canopy approx. 40 mm higher than the passage height.

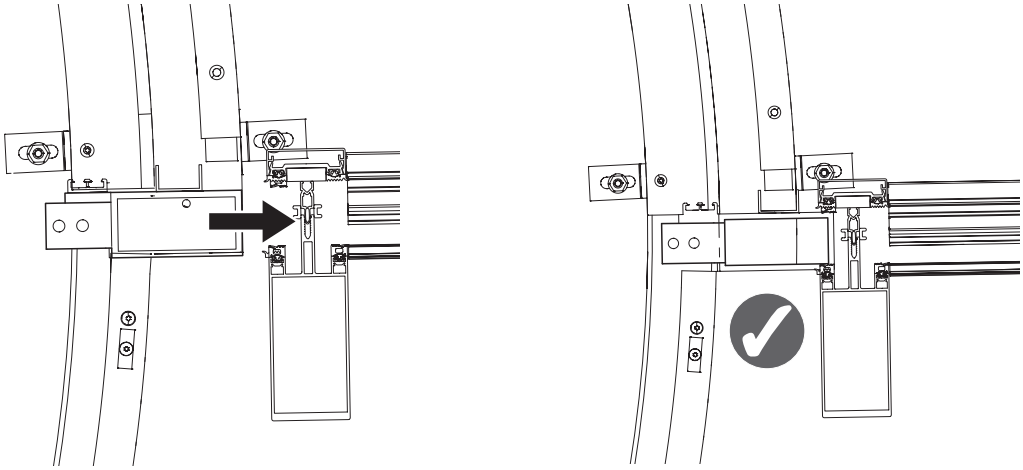
7.3.14 Insert the portal side panels in the floor ring (with bolts, mounted at the factory)



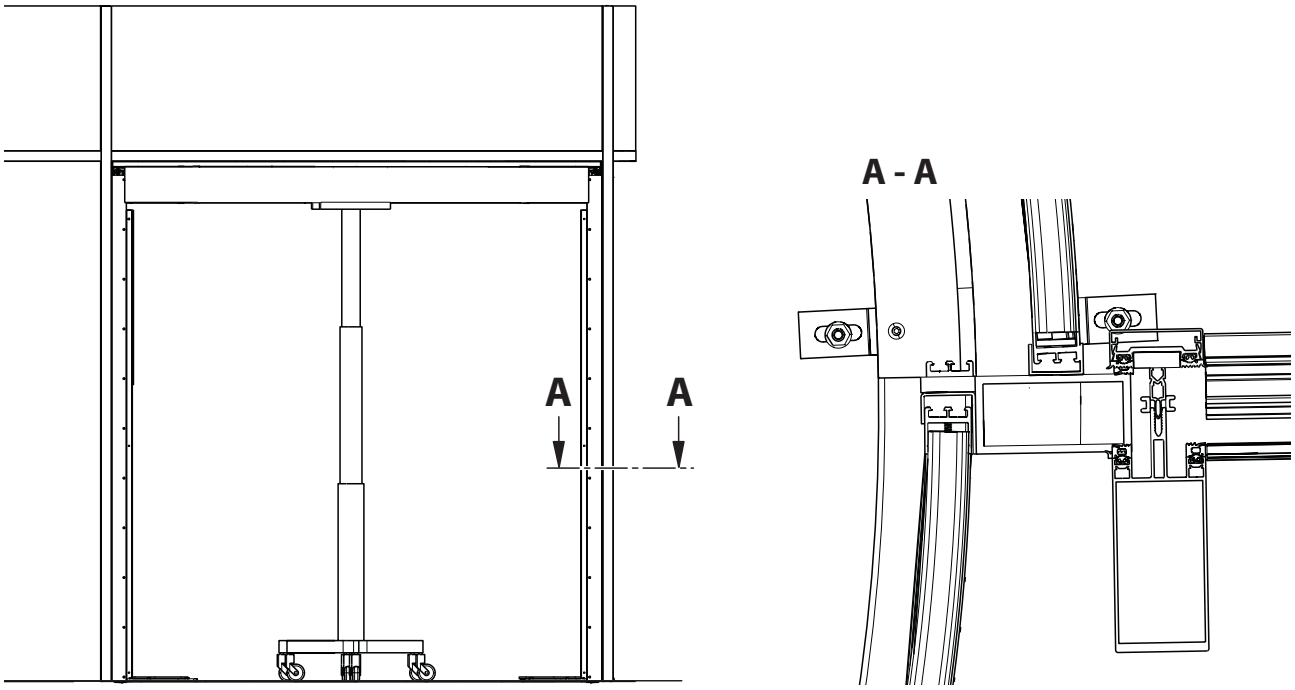


▶ Hold the portal side panels (1) in place.

7.3.15 Insert the portal side panels into the post-rail façade

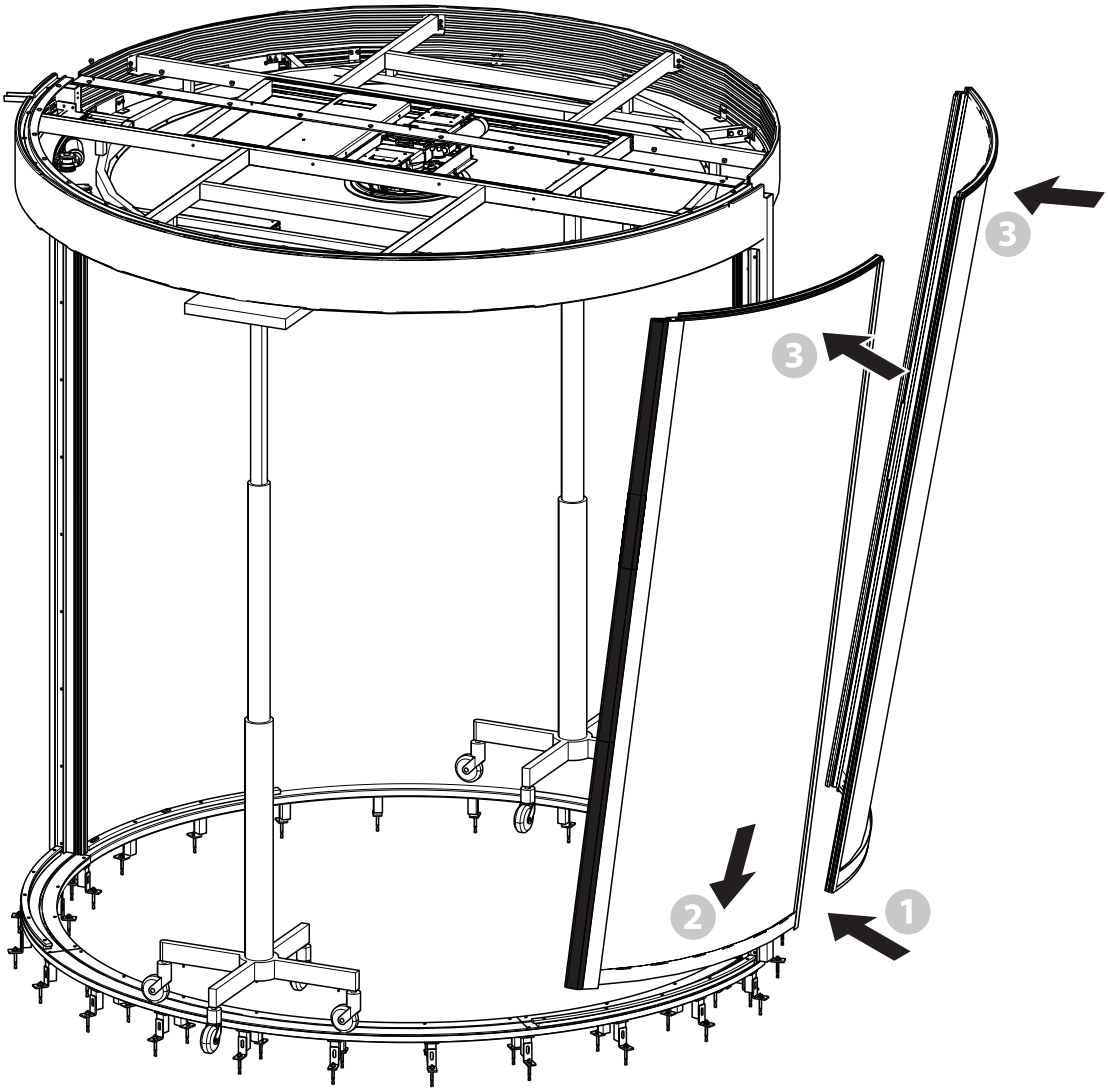


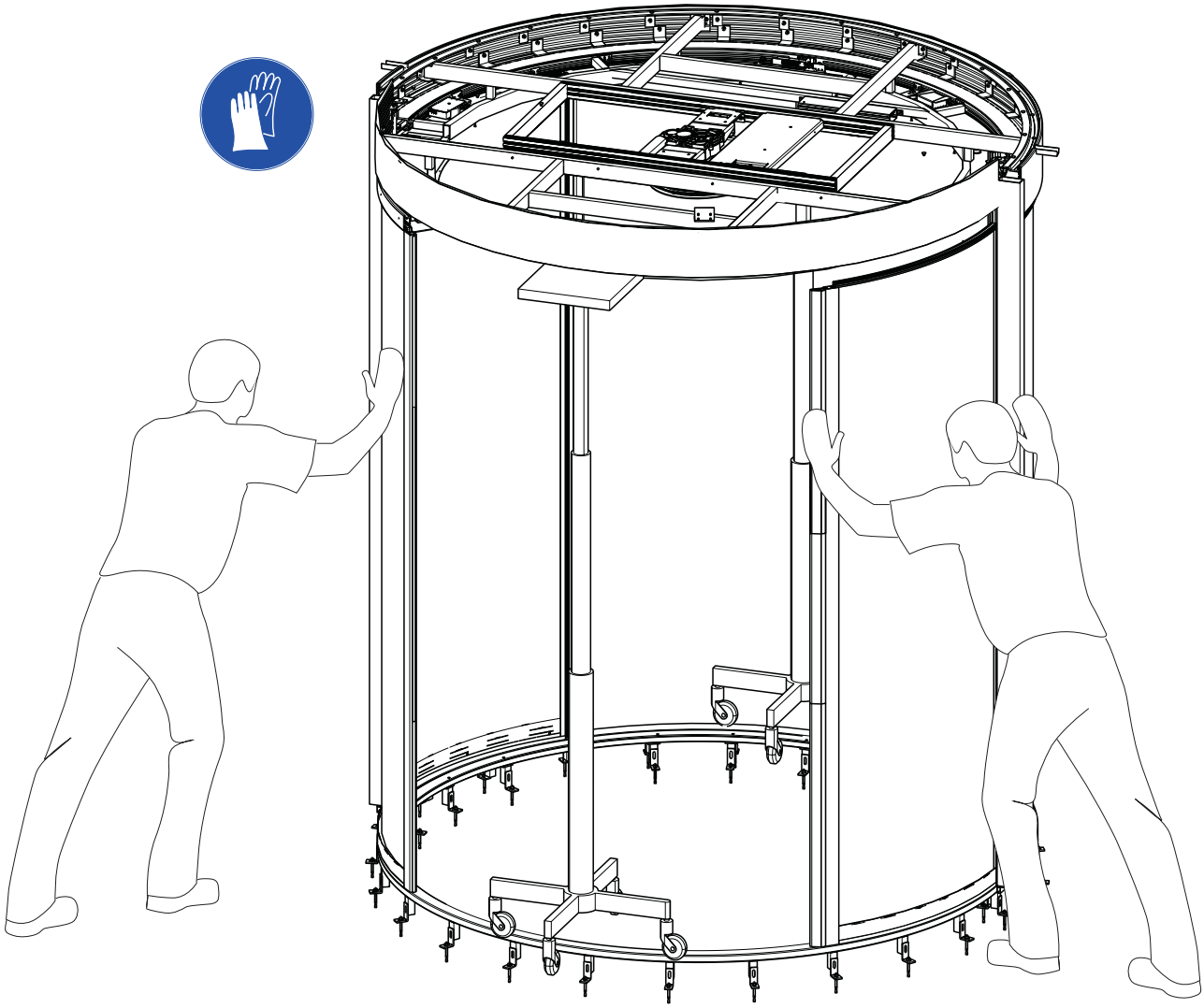
7.3.16 Insert the portal side panels into the floor ring



7.3.17 Insert the side panel

Further information see chapter 5.2.9 Insert the side panel on page 15





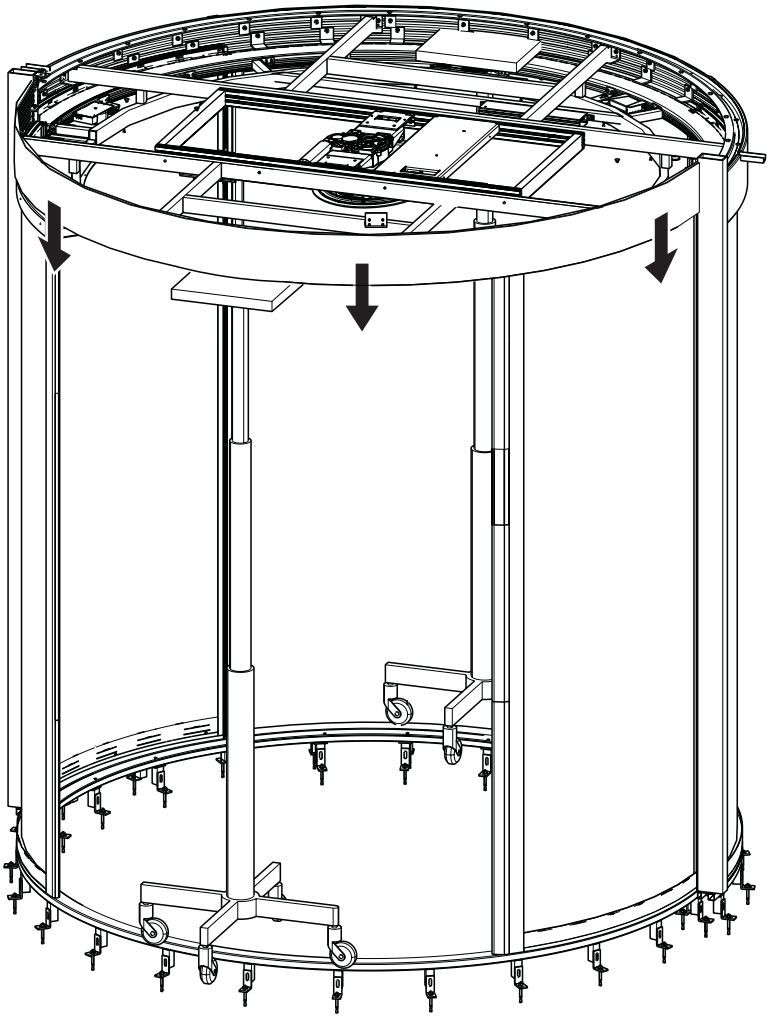
- Secure the inserted side panels against falling over in the upper third.
- Spray soap water or silicone spray onto the upper rubber of the side panels and ceiling canopy.
- Place the ceiling construction on the side panels.

7.3.18 Insert the ceiling construction into the post-rail façade

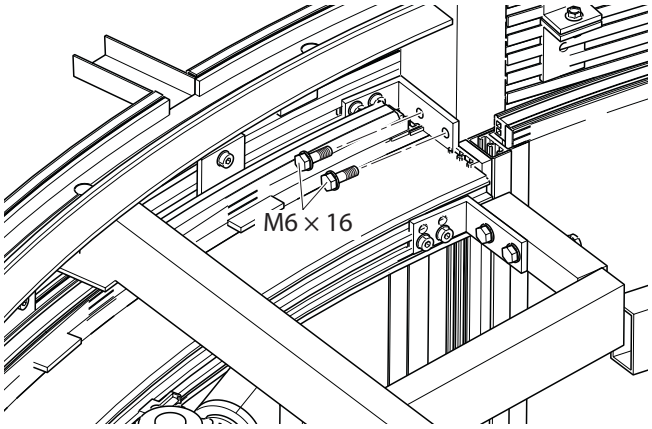
▶ The ceiling canopy has to rest evenly on all the side panel profiles.

▶ Lower the ceiling canopy carefully onto the side panel profiles.

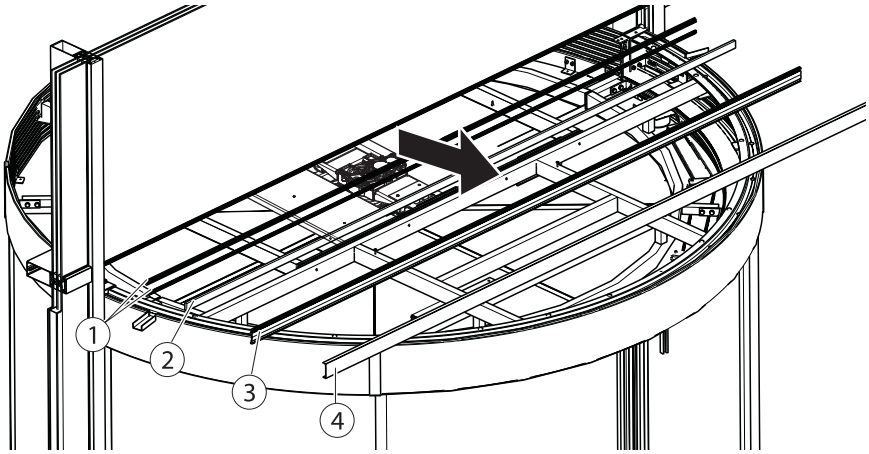




7.3.19 Screw the ceiling construction with portal side panels and side panels to the ceiling

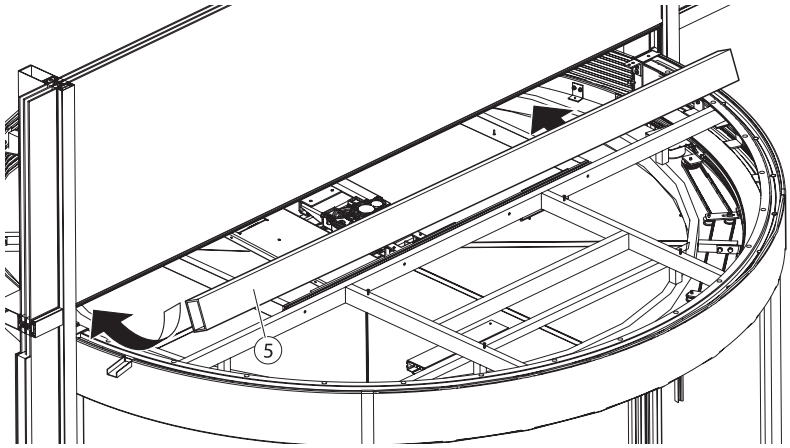


7.3.20 Insert the portal head element into the post-rail façade



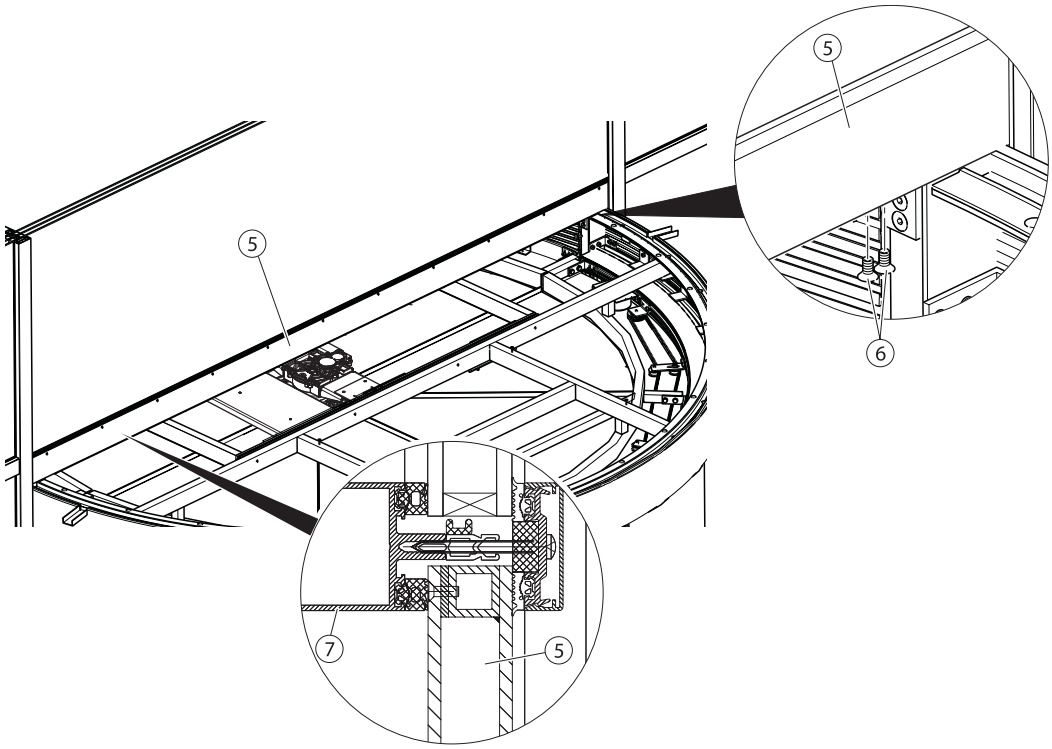
Loosen the façade rail profiles.

- ▶ Remove the cover (4), cover profile (3), rectangle profile (2) and 2 rubber profile (1).



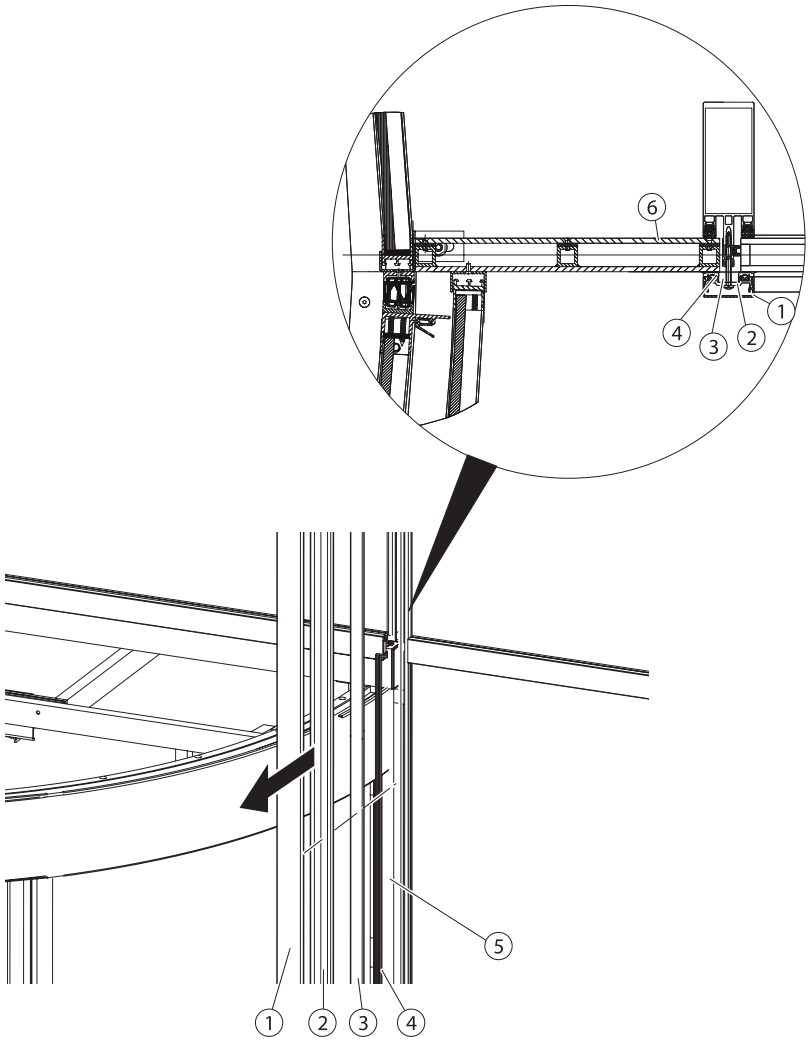
- ▶ Insert the portal head element (5) into the post-rail façade.

Screw the portal head element into the post-rail façade



- Screw the portal head element (5) on the right and left into the portal side panels with 2 screws (6) on each side.
- Drill through the portal head element (5) and the façade rail profile (7).
- Screw in with screws.
- Re-attach 2 rubber profiles (1), the rectangle profile (2), the ceiling profile (3) and the cover (4) once again.

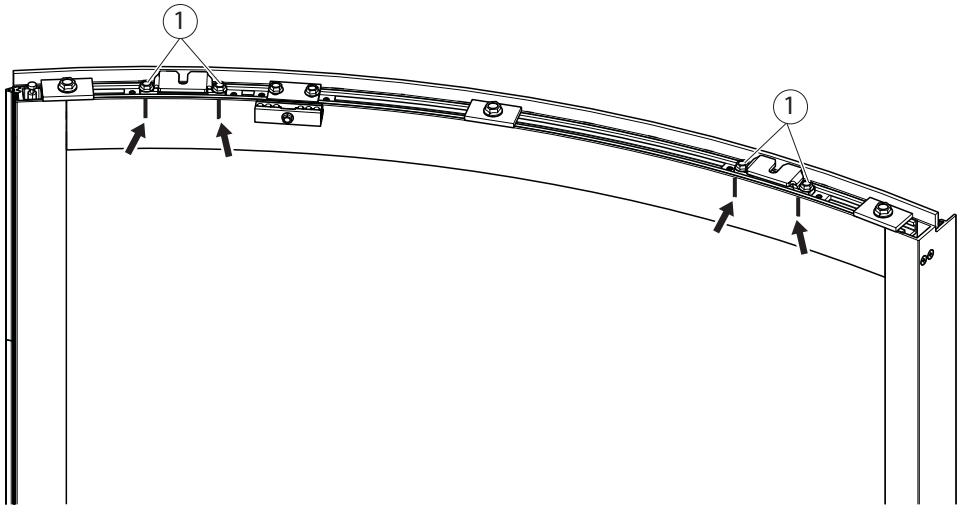
7.3.21 Screw the portal side panel into the post-rail façade



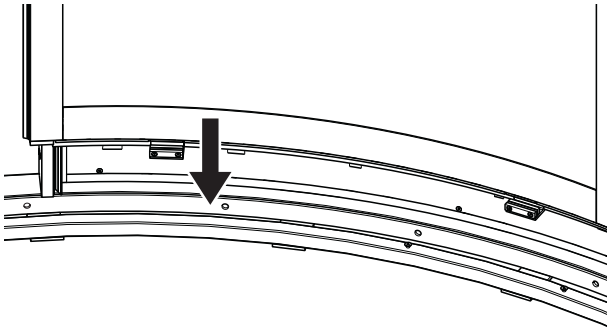
- Remove the cover (1), cover profile (2), rectangle profile (3) and retaining rubber profile (4).
- Drill through the portal side panel (5) and the façade post profile (6).
- Screw in with screws.
- Re-attach the retaining rubber profile (4), the rectangle profile (3), the ceiling profile (2) and the cover (1) once again.

7.3.22 Mounting the LV door leaf

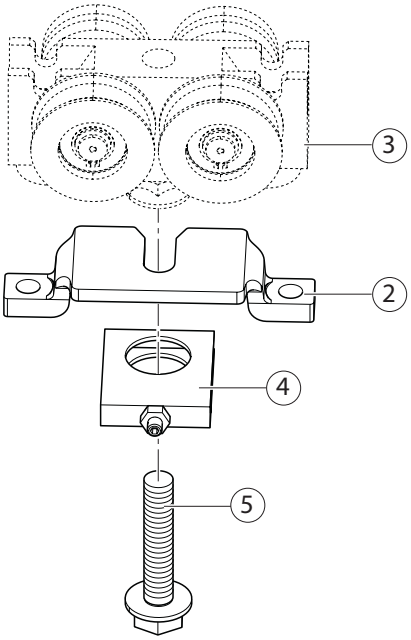
- Set the markings (arrows) at the positions of the fixing screws (1).



- Insert the door leaf into the floor guide.

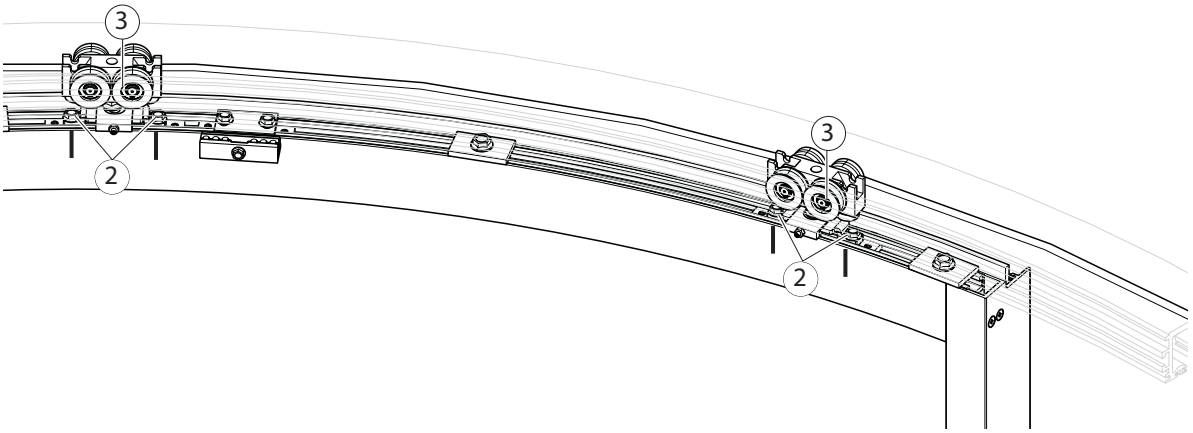


- Unscrew the suspension bolt (5) from the roller carriage (3).
- Slide the move lock (4) onto the hanger bracket (2).

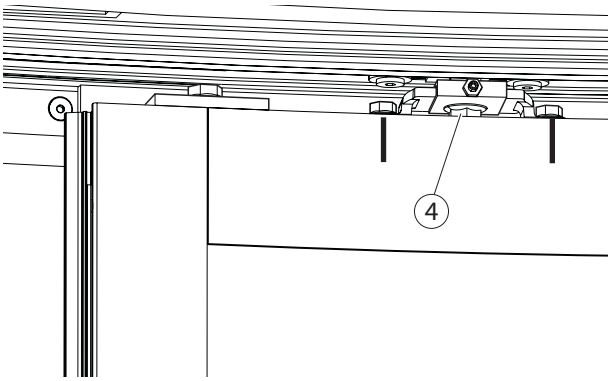


- Slide the roller carriage (3) over the suspension bolts.

- Screw the hanger bracket with 2 screws (2) each at the marked positions into the sliding blocks.



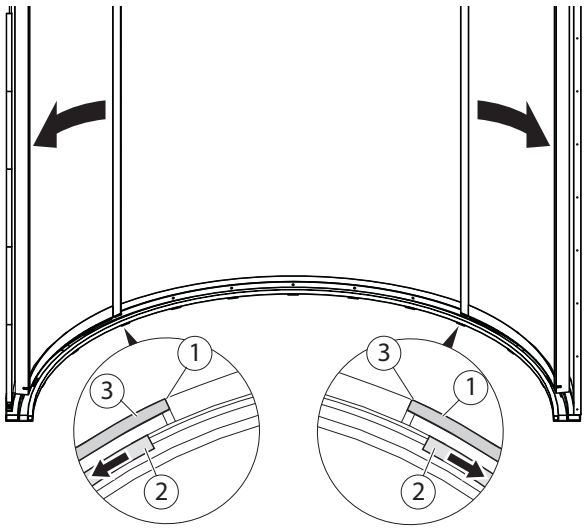
- Screw the M8 roller carriage screw (4) into the roller carriage to determine the height position of the door leaf.



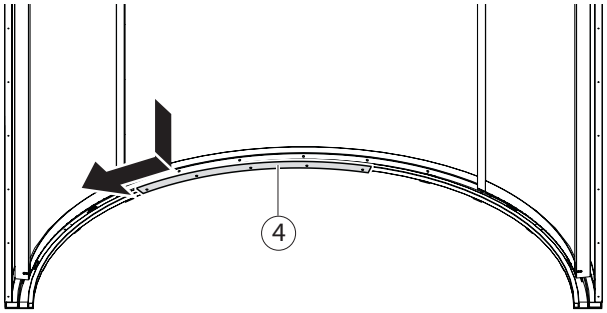
7.3.23 Mounting the sickle plates

- Slide the door leaf (2) over the vertical profile of the secondary closing edge (1).

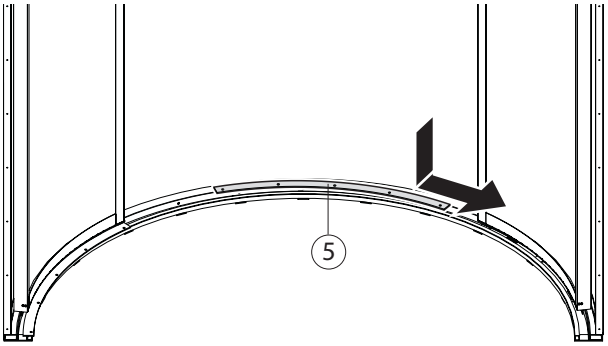
1 Secondary closing edge
2 Door leaf
3 Side panel



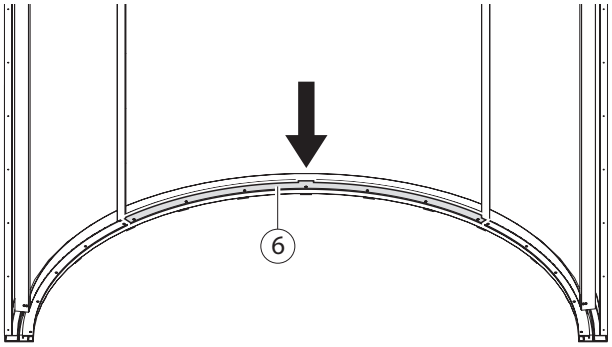
- Lay the left-hand sickle plate (4) in the middle of the floor ring and slide it under the left-hand door leaf.



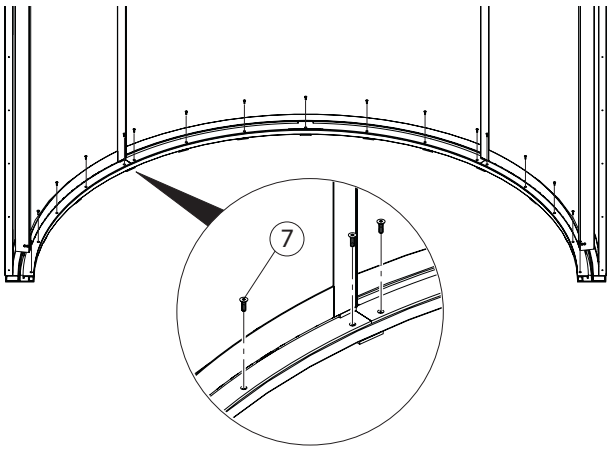
▶ Lay the right-hand sickle plate (5) in the middle of the floor ring and slide it under the right-hand door leaf.



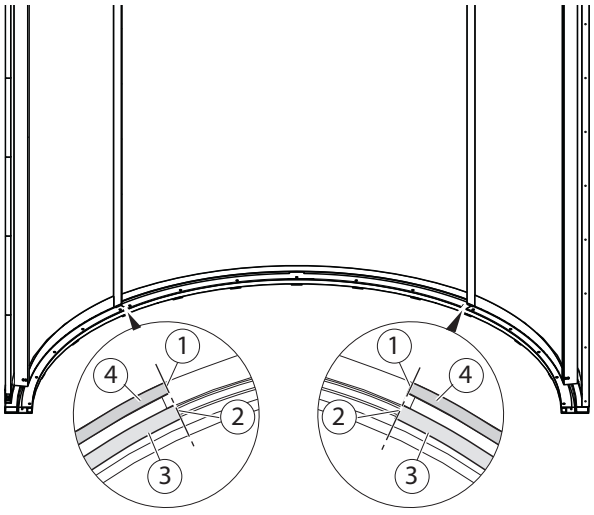
▶ Place the middle sickle plate (6) on the floor ring.



▶ Screw on all three sickle plates with screws (7).



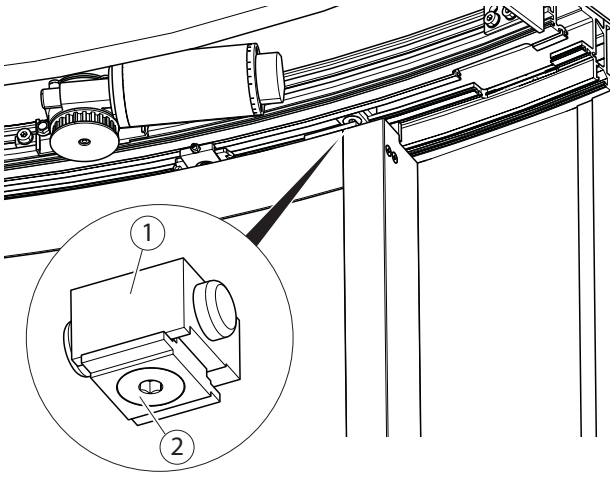
▶ Position the main closing edge door leaf (2) flush with the secondary closing edge (1).



1 Secondary closing edge
2 Main closing edge door leaf
3 Door leaf
4 Side panel

7.3.24 Installing stop buffers

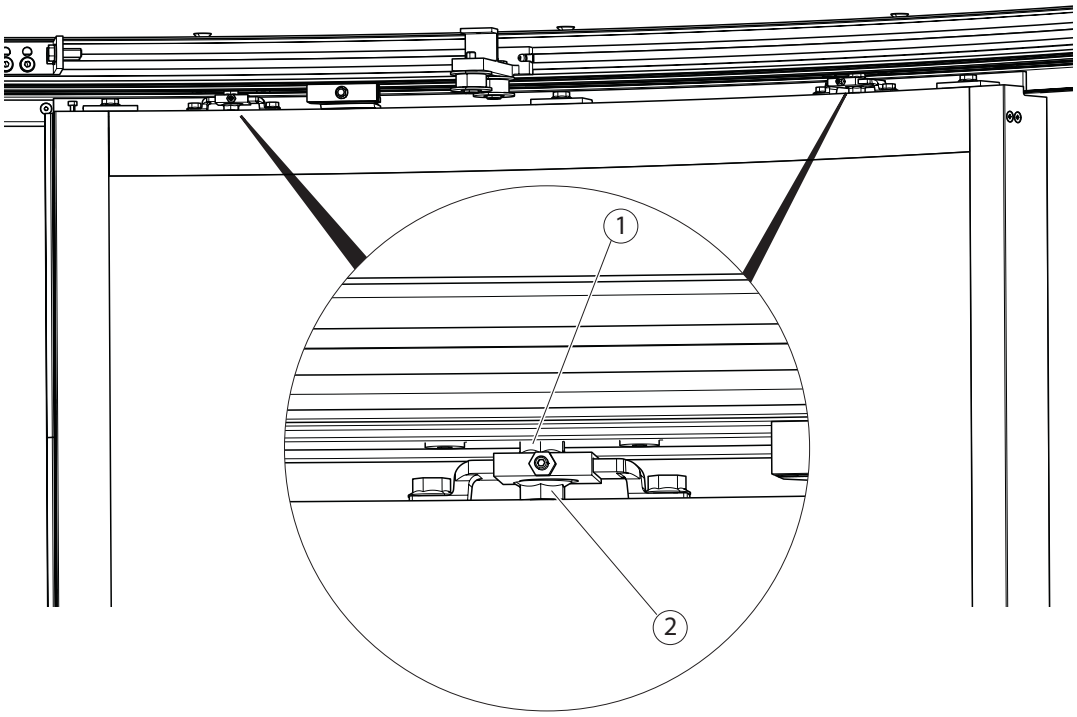
- Align the door stop (1) to the outer roller carriage.
- Tighten the screw (2).



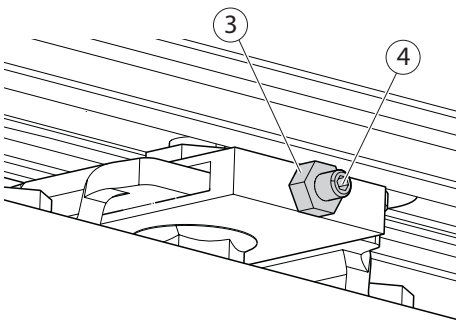
7.3.25 Adjusting the LV door leaves

- Observe the applicable standards and guidelines on crushing, shearing and drawing-in spots.
- Align door leaves flush with each other. Ensure the same level and parallel closing edges when doing so.

- Fine-adjust the height and parallel position of the door leaves at the hex of the suspension bolts (2).
- Tighten the lock nut (1).



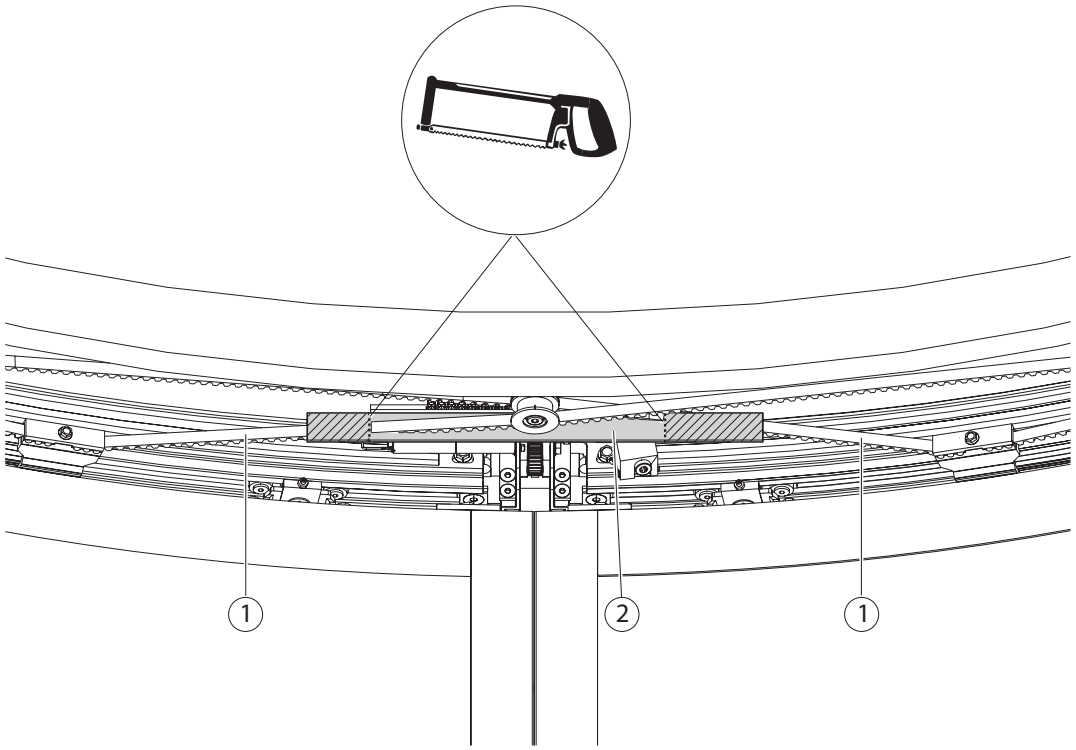
- When the position of the door leaves is correct, tighten the Allen screws (4) lightly and secure with lock nuts (3).



7.3.26 Shortening the tooth belt cut protection

If the toothed belt collides with the cut protection:

▶ Shorten the cut protection (2) so that the toothed belt (1) passes the cut protection without contact.



7.3.27 Adjusting the rod locking

See the supplementary installation instructions for Slimdrive SL WK2 (mat. no. 136308).

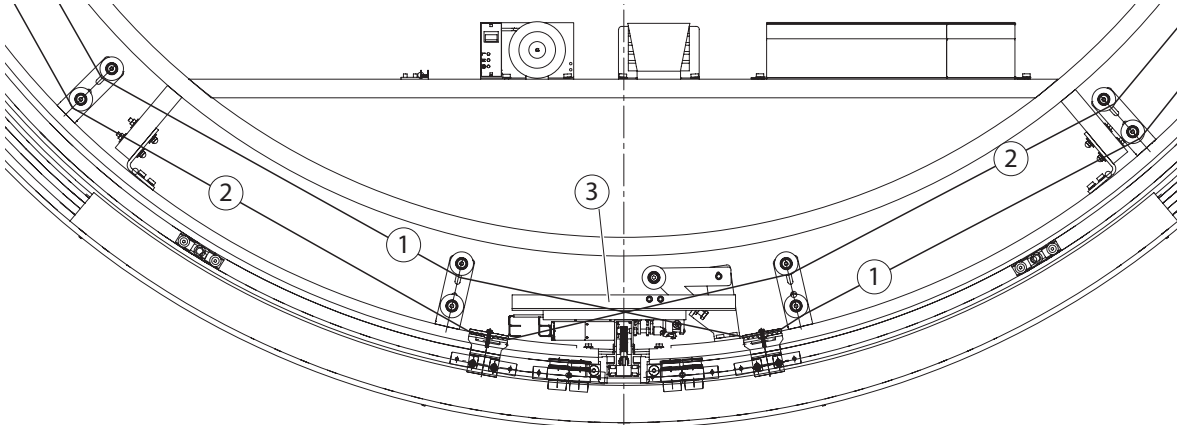
7.4 Installation information for NV tooth belt guidance RC2

Tooth belt guidance with RC 2-rod locking

The tandem roller (if required) is attached to the rear frame profile for RC 2 rod locking. In this case, the toothed side of the tooth belt must run over the tandem roller.

If the tooth belt rubs against the burglar-protection bracket after installation:

▶ Cut the burglar-protection bracket to length (3).



1 Belt 1
2 Belt 2
3 Burglar-protection bracket

7.5 Mounting the turnstile

see chapter 5.2.5 Installation without floor ring on page 11

7.5.1 Inserting the floor bearing

see chapter 5.2.5 Installation without floor ring on page 11

7.5.2 Mounting the collector ring

see chapter 5.2.11 Mounting the collector ring on page 17

7.5.3 Mounting the centre rod retainer

see chapter 5.2.12 Mounting the centre rod retainer on page 17

7.5.4 Mounting the centre rod below

see chapter 5.2.13 Mounting the centre rod below on page 18

7.5.5 Drilling a cable guide for post safety

see chapter 5.2.16 Drilling a cable guide for post safety on page 20

7.5.6 Mounting the side-hung leaves

see chapter 5.2.14 Mounting the side-hung leaves on page 18

7.5.7 Fastening the side-hung leaves

see chapter 5.2.15 Fastening the side-hung leaves on page 19

7.5.8 Adjusting the chain tensioner

see chapter on page 19

7.6 Mounting contact strips on the leaves

see chapter 5.3 Mounting switch contact strips on the leaves on page 20

7.7 Mounting RC 2 ceiling panels

To provide a better overview, the following illustrations are shown without side-hung leaf.

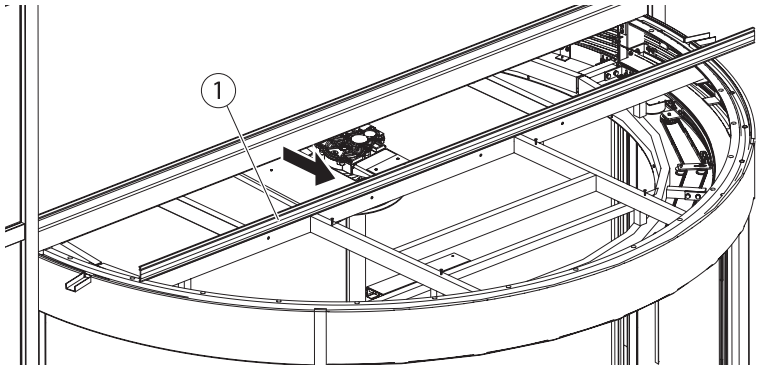
7.7.1 Placing on the cover

see chapter 5.5.1 Setting the cover plate in place on page 23

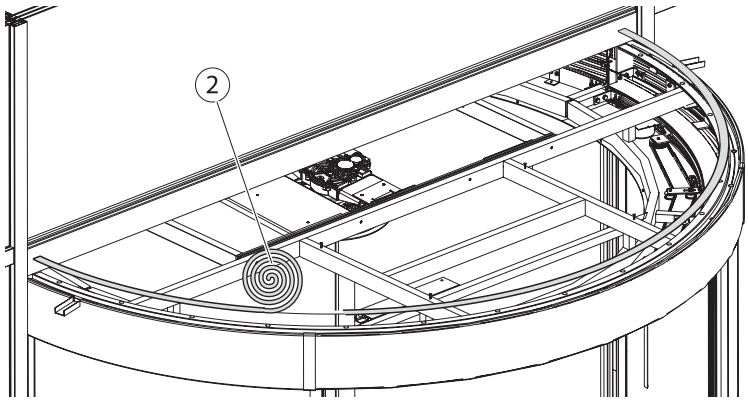
7.7.2 Mounting the outer side

Preparations

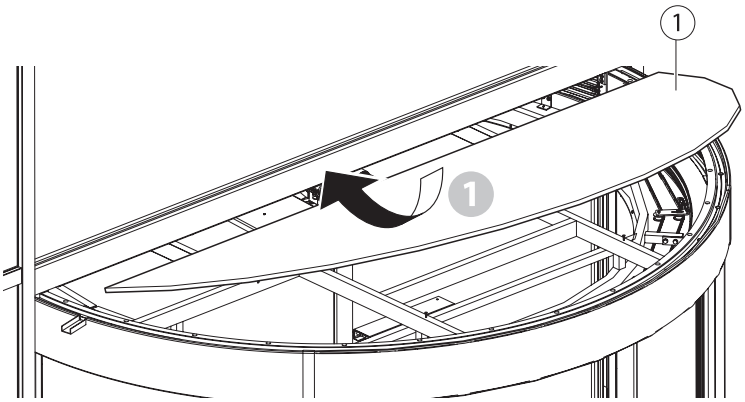
- Remove the rail cover (1) from the post-rail façade.

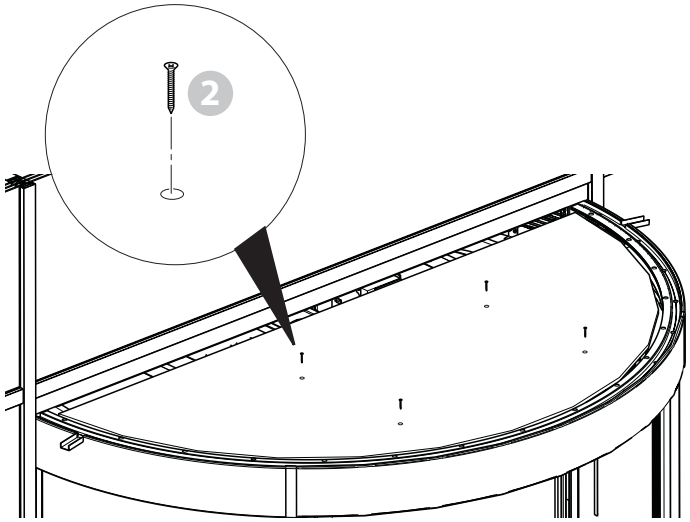


- Stick the GYSO sealing tape (2) to the gutter profile.



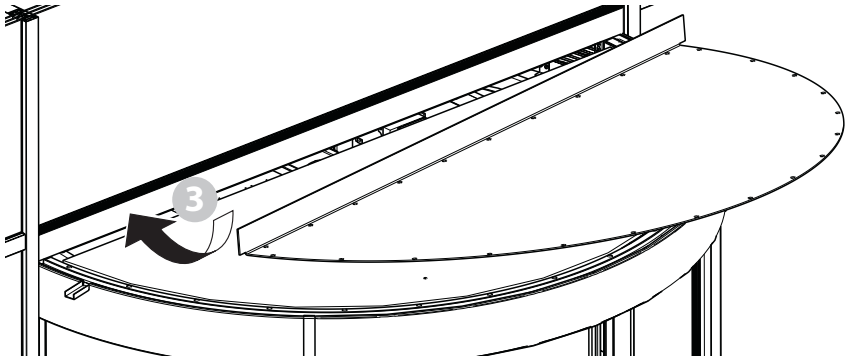
Mount the clamping plate (1)

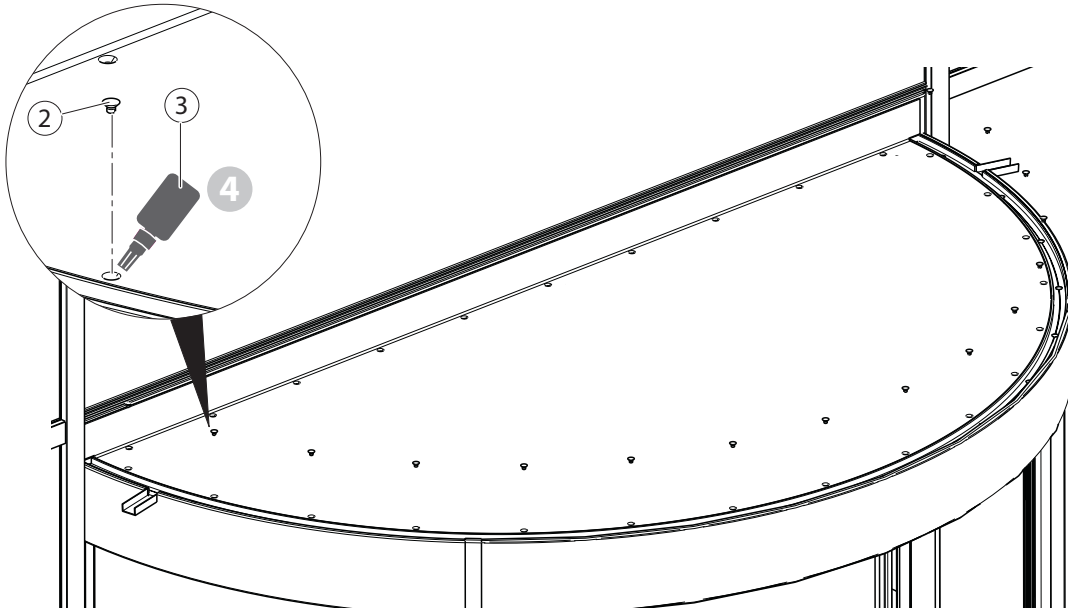




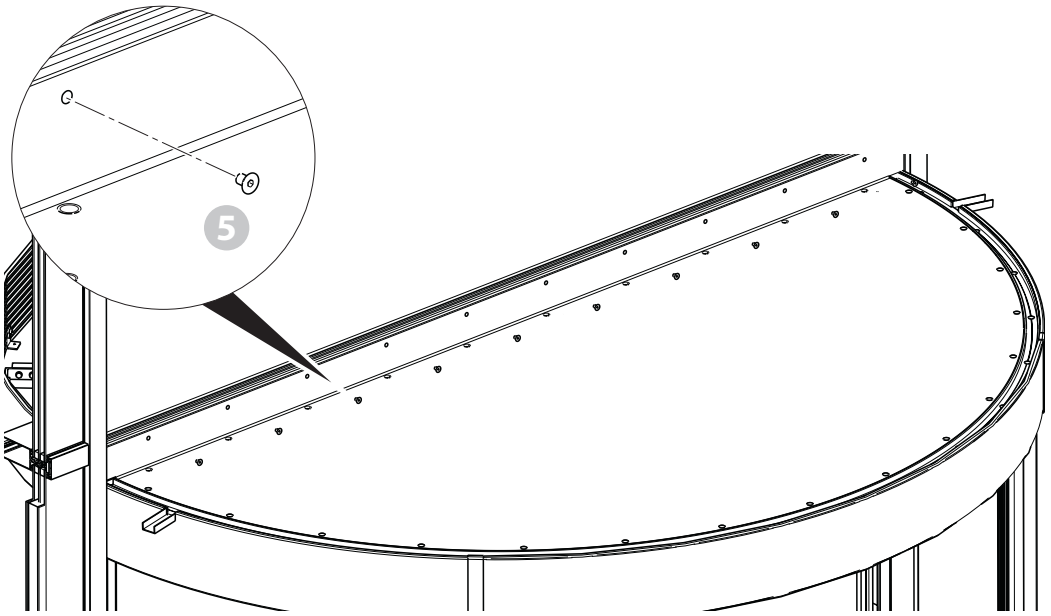
Set the ceiling panel in place and screw in

Variant: Waterproof roof

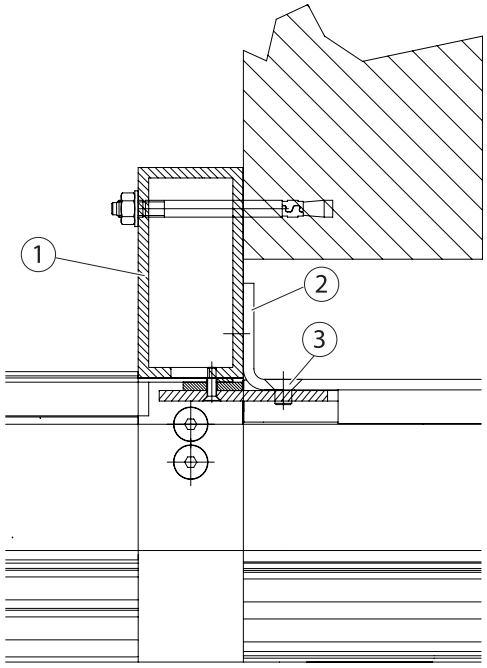




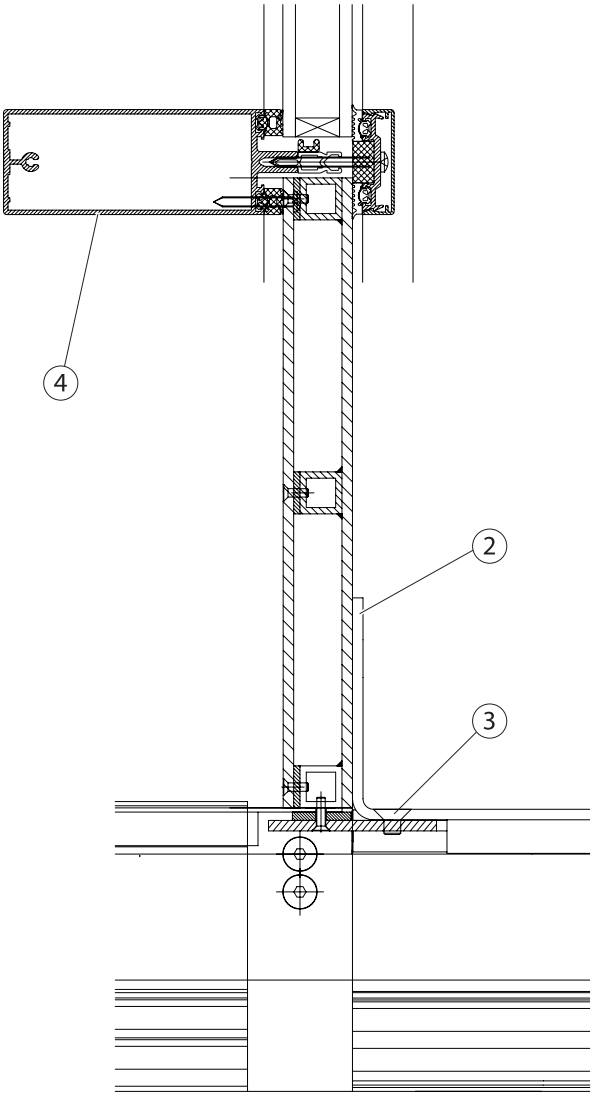
2 Burglar-protection screw
3 High-resistance, sealing thread lock



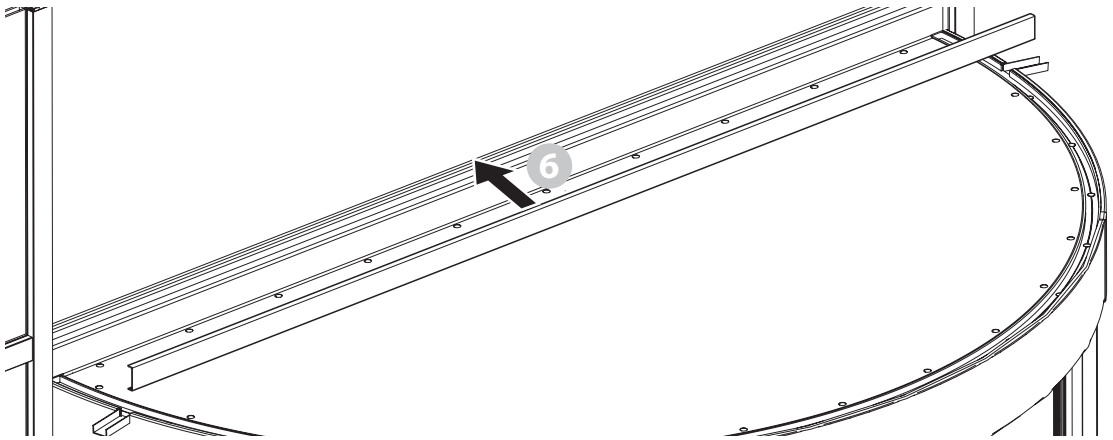
Mounting to the box portal and façade (example)



Mounting to the sandwich portal and post-rail façade

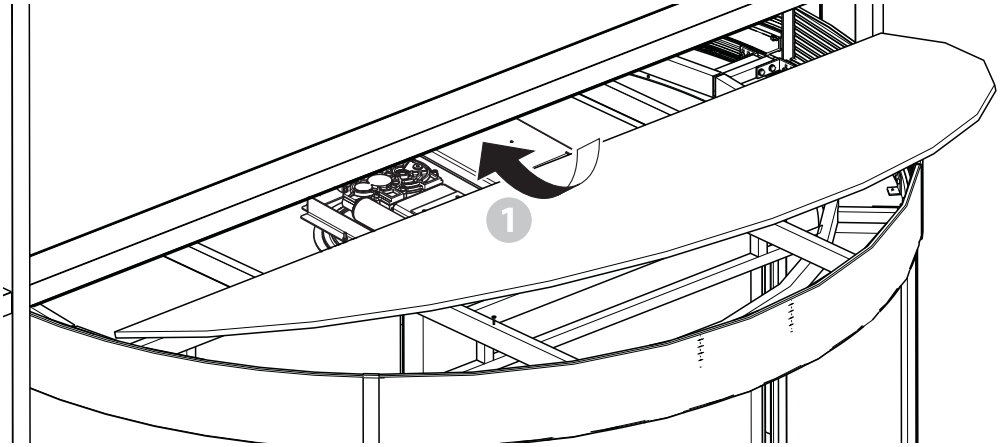


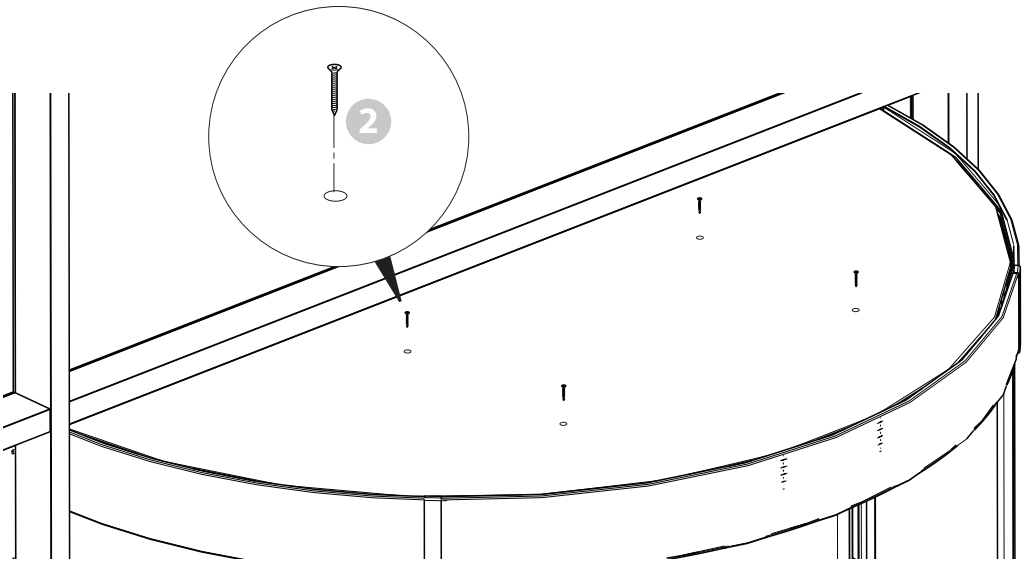
1 Portal profile
2 Ceiling panel
3 Burglar-protection screws
4 Post-rail façade



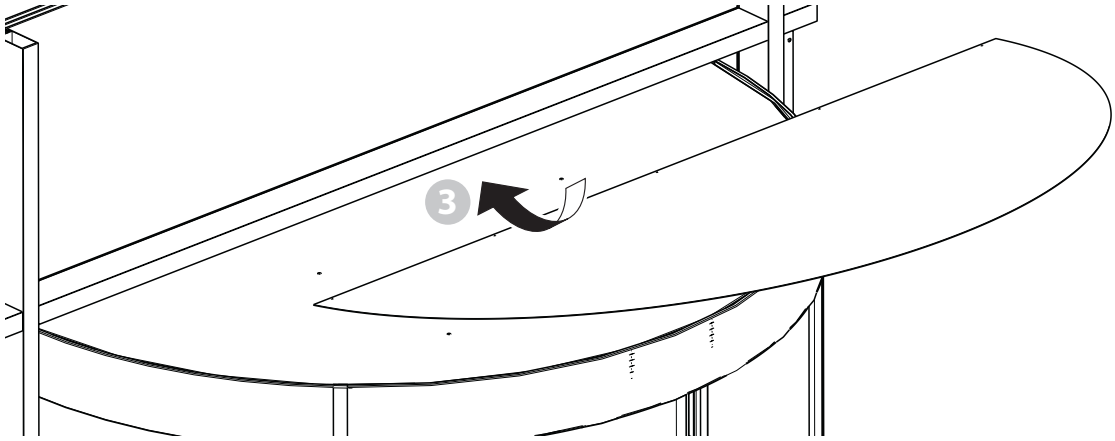
7.7.3 Mounting the inner side

Mount the clamping plate

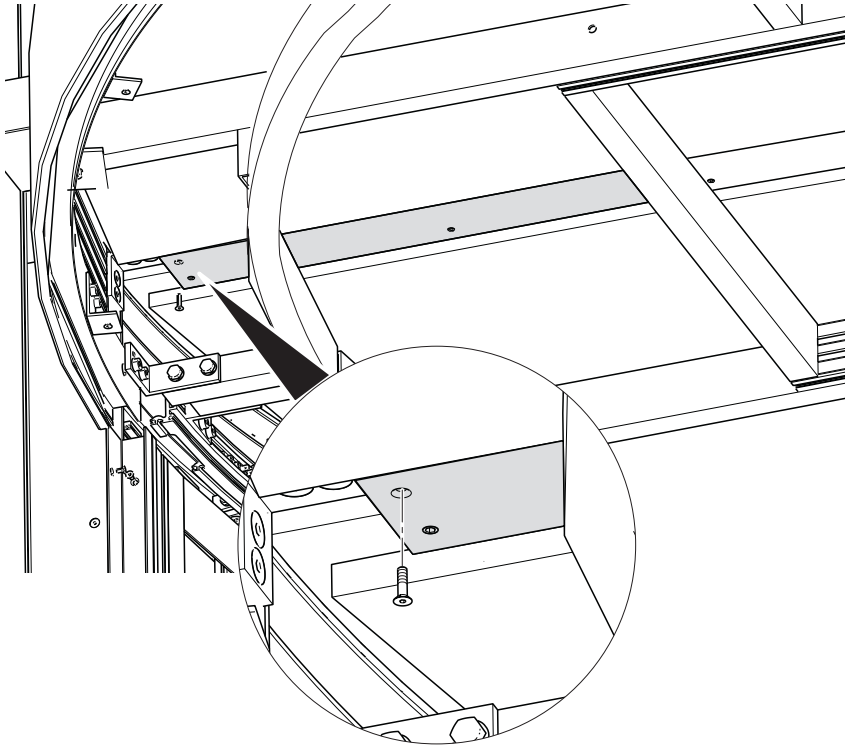




Push in the ceiling panel

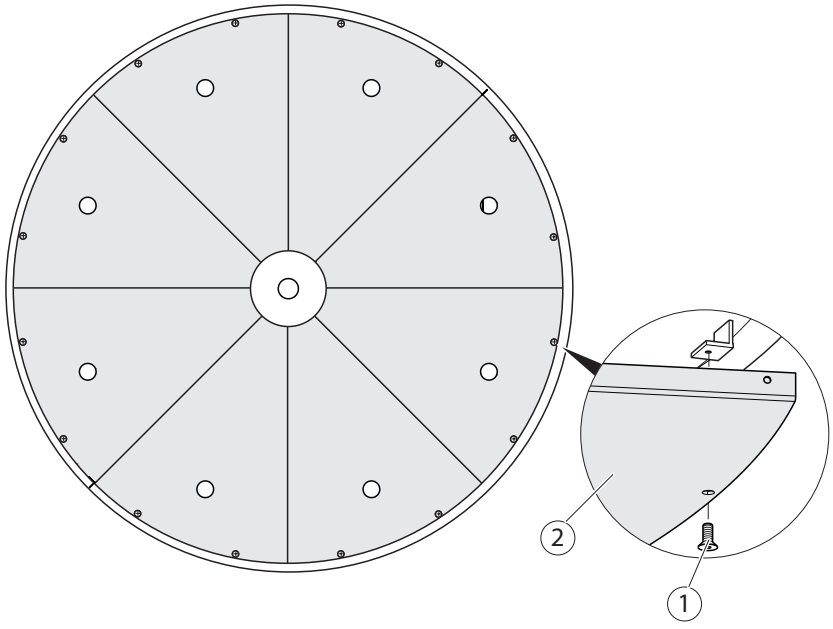


Screw the façade kick plate to the interior ceiling panel



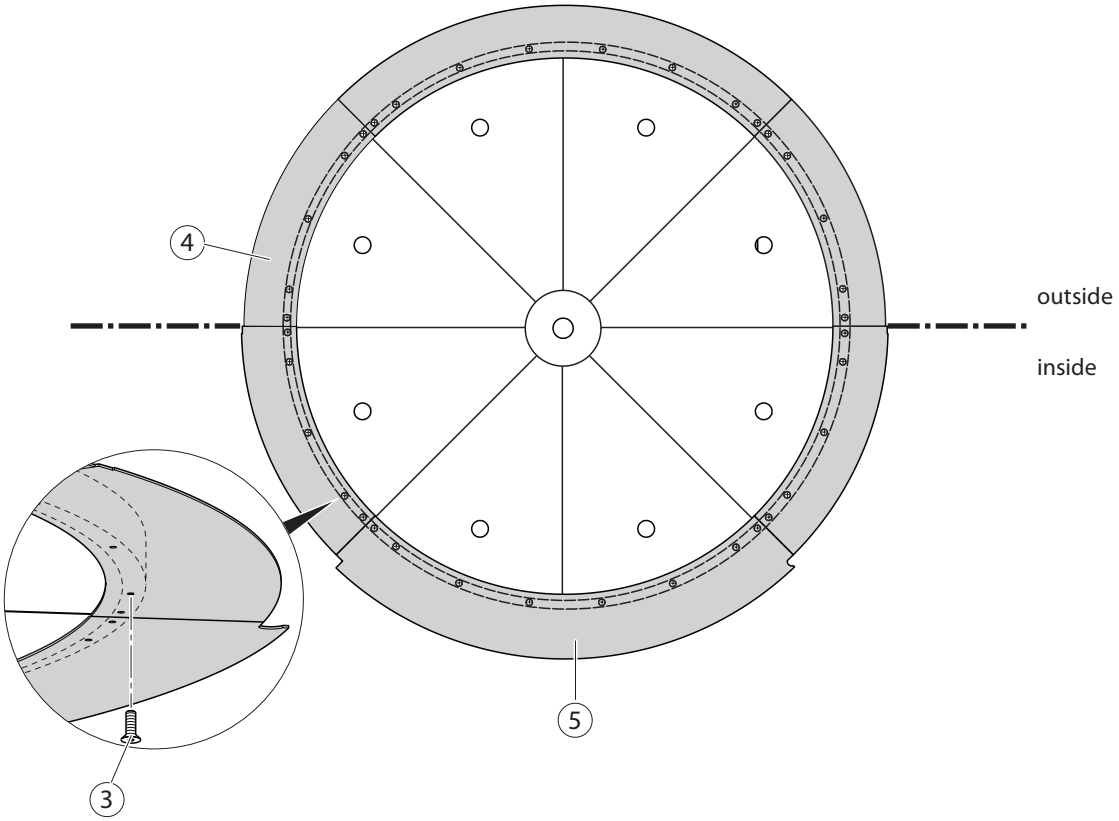
7.7.4 Insert and screw in the segment sheets and sickle plates

Mount the segment sheets



▶ Insert 8 segment sheets (2) and screw each one in with 2 screws (1).

Mount the sickle plates



- ▶ Screw the sickle plates (4) with screws (3) and align them to one another.
- ▶ Mount the sickle plate (5) in the inside entry area.

7.7.5 Installing the entrance mat

see chapter 5.5.3 Installing the entrance mat on page 25

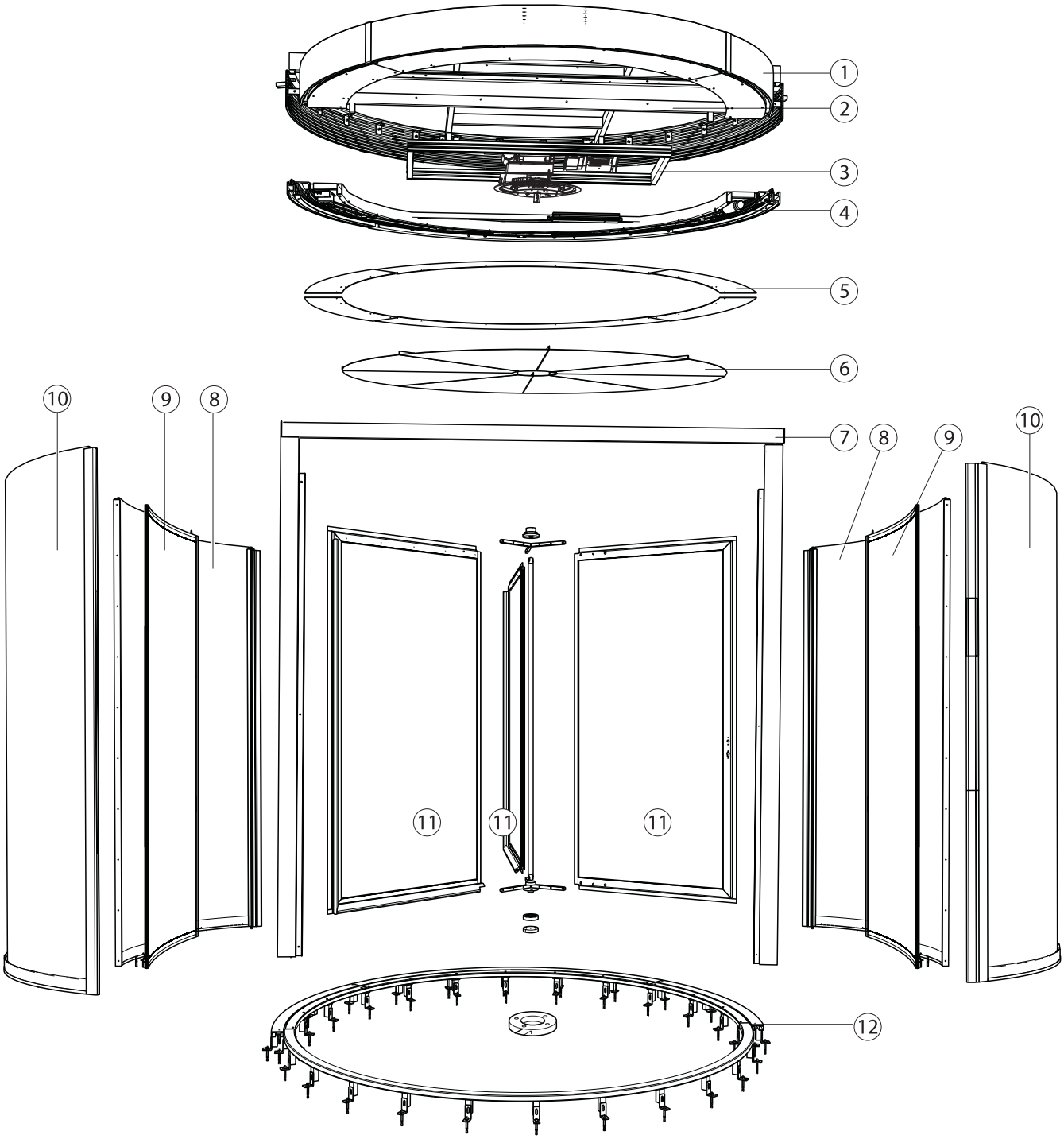
7.8 Check list for commissioning and service

- ▶ Complete the check points according to the check list in “Commissioning and service”.

8 Revo.PRIME 3-leaf revolving door

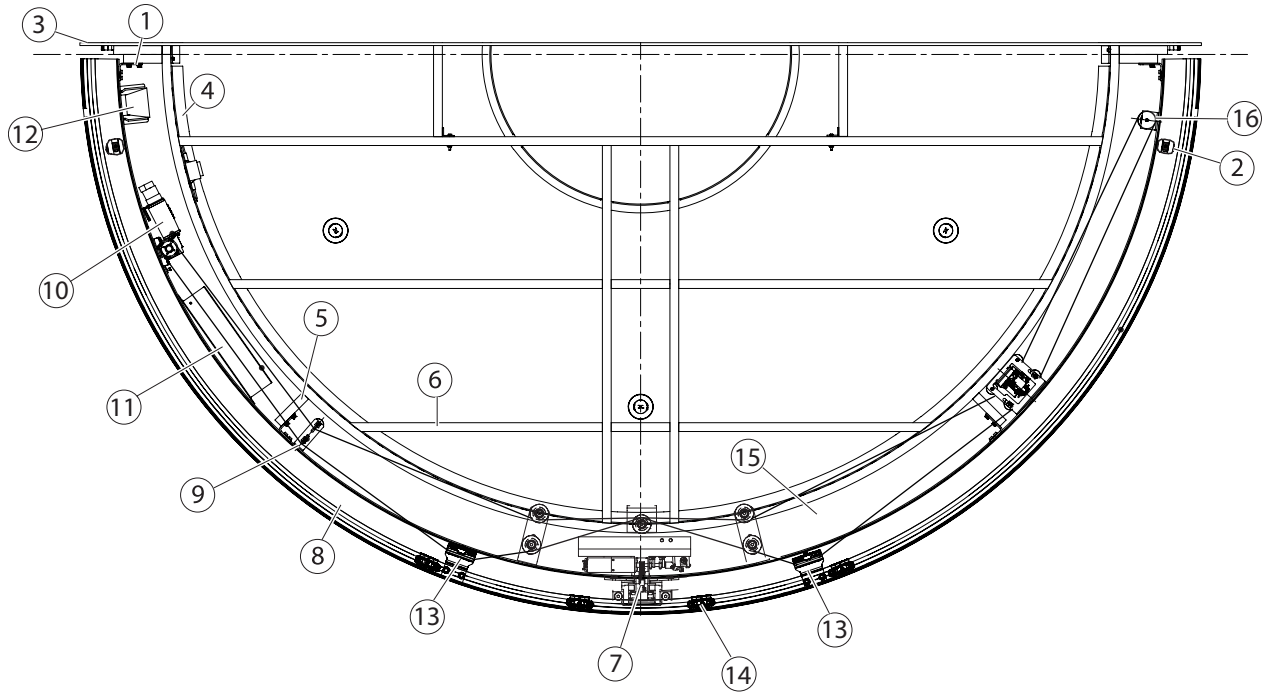
Burglar-resistant doors are complete elements and require careful installation. The connecting walls/façades must have a structure that conforms to at least DIN EN 1627.

8.1 Assemblies and parts



1	Ceiling	7	Portal
2	Ceiling base construction	8	Interior side panel
3	Motor drive unit	9	Protective leaf
4	LV drive unit	10	Exterior side panel
5	Sickle plate	11	Side-hung leaf
6	Ceiling panels	12	Floor ring

8.2 Night-time closer drive (IANV)



1	Connecting bracket	10	DCU 1 motor gear unit
2	Stop buffer	11	Control unit
3	Façade bracket	12	Rechargeable battery
4	Frame tube, inside	13	Driver
5	Fastening tube	14	Roller carriage
6	Reinforcing brace ceiling	15	Tooth belt
7	Rod locking device	16	Deflection pulley
8	Cover profile		
9	Pulley holder		

8.2.1 Safety sensor activation device – LV drive

see chapter 7.2.2 Safety sensor activation device – LV drive on page 62

8.2.2 Portals

see chapter 7.2.3 Portals on page 63

8.3 Installation of Revo.PRIME revolving door, 3-leaf

Many of the steps for installation of the Revo.PRIME 3-leaf revolving door are the same as those for installing the Revo.PRIME revolving door and the Revo.PRIME RC 2 revolving door. This chapter describes the installation steps that differ from installation of the Revo.PRIME or Revo.PRIME RC 2 revolving doors.

8.3.1 Mounting the floor ring

see chapter 5.2.1 Mounting the floor ring on page 8

8.3.2 Aligning the floor ring

see chapter 5.2.2 Aligning the floor ring on page 9

8.3.3 Fastening the floor ring to the subsurface

see chapter 5.2.3 Fastening the floor ring to the subsurface on page 10

8.3.4 Filling the floor ring space with screed

see chapter 7.3.4 Filling the floor ring space with screed on page 64

8.3.5 Removing the sickle plates

see chapter 7.3.5 Removing the sickle plates on page 64

8.3.6 Mounting the ceiling canopy

see chapter 5.2.5 Installation without floor ring on page 11

8.3.7 Mounting the drive unit

see chapter 5.2.7 Mounting the drive unit on page 14

8.3.8 Placing blocks for side panel profiles

see chapter 5.2.8 Lifting the ceiling canopy on page 15

8.3.9 Loosen the floor strips from the outside side panel

see chapter 7.3.9 Loosen the floor strips from the RC 2 outside side panel on page 65

8.3.10 Attach the floor strips from the outside side panels to the outside of the floor ring

see chapter 7.3.10 Attach the floor strips from the RC 2 outside side panels to the outside of the floor ring on page 66

8.3.11 Loosen the floor strips and blocks from the inside side panel

see chapter 7.3.11 Loosen the floor strips and blocks from the inside RC 2 side panel on page 67

8.3.12 Attach the floor strips from the inside side panels to the floor ring

see chapter 7.3.12 Attach the floor strips from the RC 2 inside side panels to the floor ring on page 67

8.3.13 Lifting the ceiling canopy

see chapter 7.3.13 Lifting the ceiling canopy on page 68

8.3.14 Insert the portal side panels into the floor ring

see chapter 7.3.14 Insert the portal side panels in the floor ring (with bolts, mounted at the factory) on page 70

8.3.15 Insert the portal side panels into the post-rail façade

see chapter 7.3.15 Insert the portal side panels into the post-rail façade on page 71

8.3.16 Insert the portal side panels into the floor ring

see chapter 7.3.16 Insert the portal side panels into the floor ring on page 71

8.3.17 Insert the side panel

For further information, see see chapter 5.2.9 Insert the side panel on page 15 and section 7.3.17 on page 72

8.3.18 Insert the ceiling construction into the post-rail façade

see chapter 7.3.18 Insert the ceiling construction into the post-rail façade on page 74

8.3.19 Screw the ceiling construction to the portal side panels

see chapter 7.3.19 Screw the ceiling construction with portal side panels and side panels to the ceiling on page 74

8.3.20 Insert the portal head element into the post-rail façade

see chapter 7.3.20 Insert the portal head element into the post-rail façade on page 75

8.3.21 Screw the portal side panel into the post-rail façade

see chapter 7.3.21 Screw the portal side panel into the post-rail façade on page 77

8.3.22 Mount the LV door leaf

see chapter 7.3.22 Mounting the LV door leaf on page 78

8.3.23 Mount the sickle plates

see chapter 7.3.23 Mounting the sickle plates on page 79

8.3.24 Mount the stop buffers

see chapter 7.3.24 Installing stop buffers on page 81

8.3.25 Adjust the LV door leaf

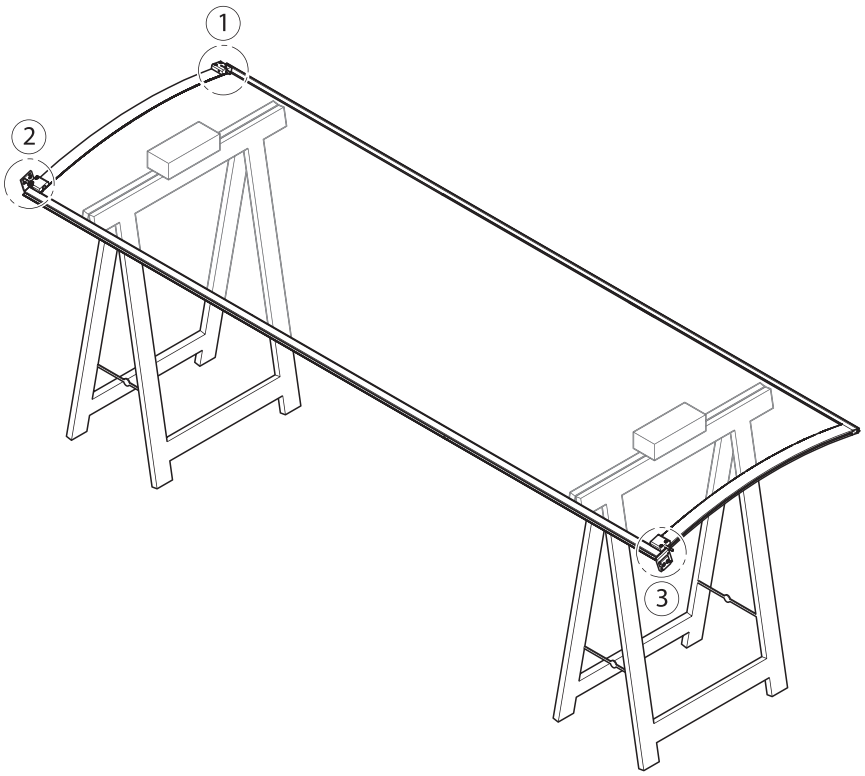
see chapter 7.3.25 Adjusting the LV door leaves on page 81

8.3.26 Install closed position monitoring

See chapter 6.7

8.3.27 Mount the protective leaf

Preparing the protective leaf

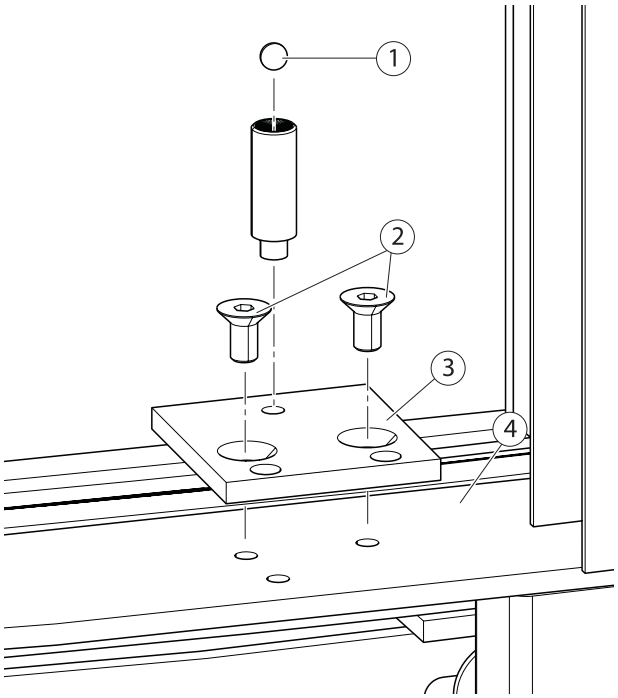


1 Position for locking mechanism (X)
2 Position for lower floor-mounted pivot bearing (Y)
3 Position for upper floor-mounted pivot bearing (Z)

Mounting the floor bearing

- ▶ Screw the floor bearing (3) onto the sickle plate (4) with 2 screws (2).
- ▶ Insert the sphere (1) and grease heavily.

The sphere (1) must be heavily greased to
- ensure it moves freely in the floor bearing and
- to prevent it from falling easily out of the spherical cap when attaching the protective leaf.

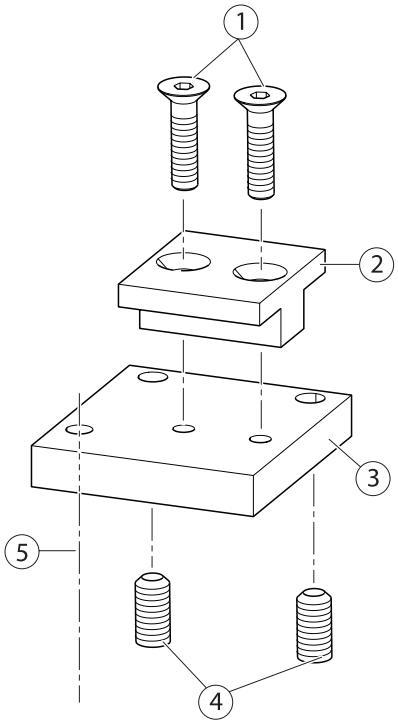


Mounting the upper pivot bearing on the track side

Mount the upper pivot bearing according to the drawing:

- ▶ Screw the counterplate (2) onto the bearing plate (3) with 2 screws (1).
- ▶ Screw in the 2 set screws (4).

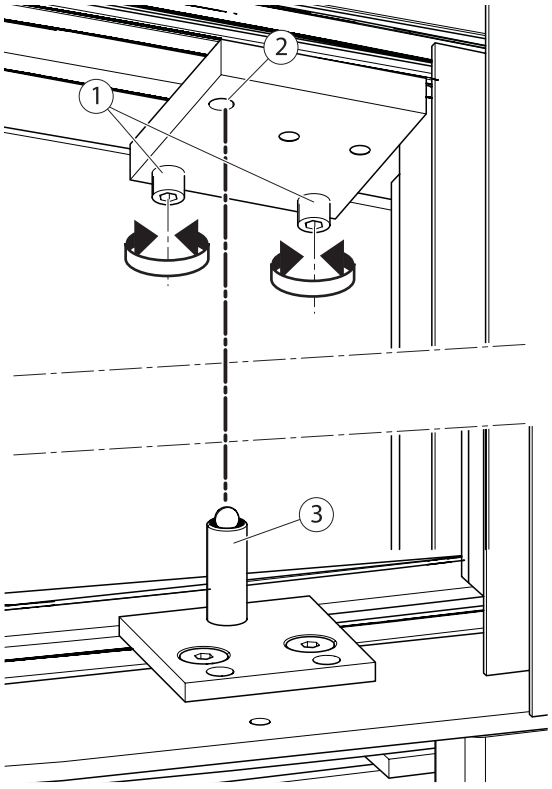
The bearing plate (3) must be installed on opposite sides for the right and left leaves.



1 Screws
2 Counterplate
3 Bearing plate
4 Set screws
5 Stop pins
6 Swivelling axis for glass leaf

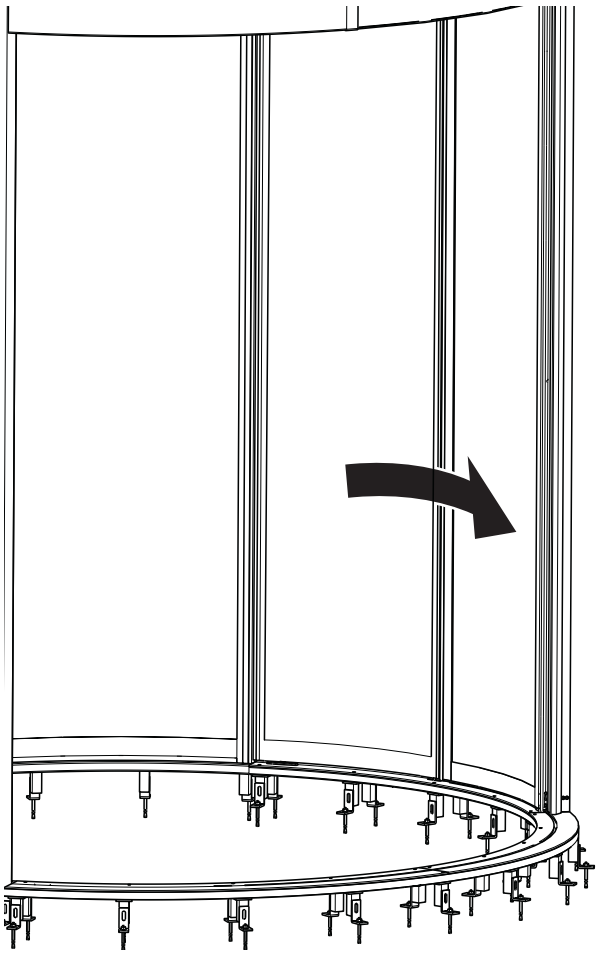
Adjusting the upper pivot bearing

- ▶ Adjust the upper pivot bearing using the set screws (1) such that the floor bearing (3) and interior thread (2) for the threaded rod are flush with one another.

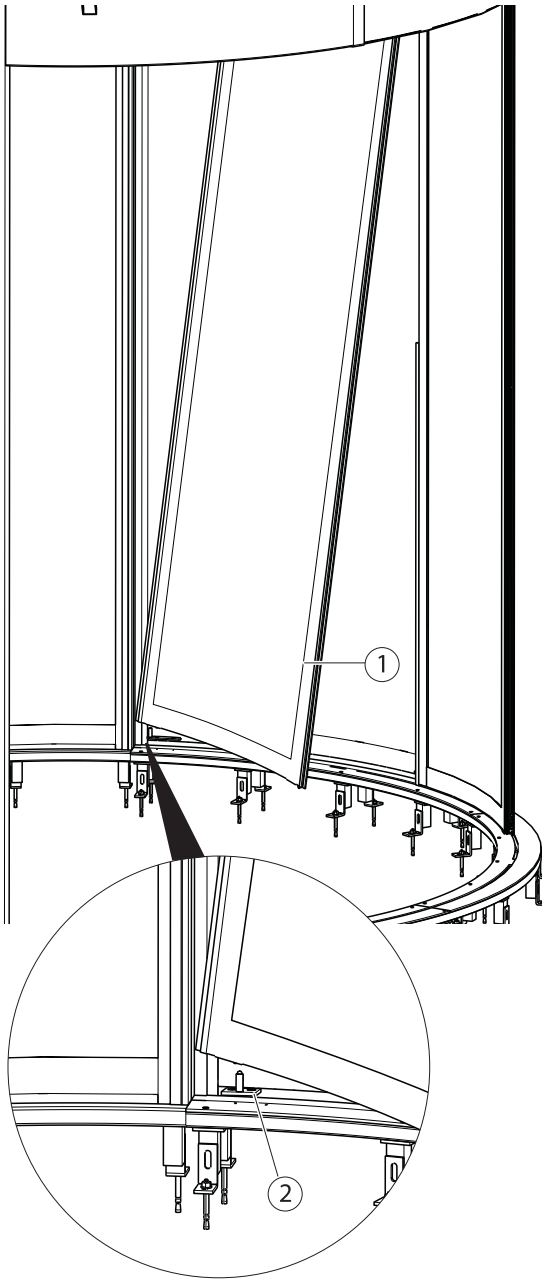


8.3.28 Install the protective leaf

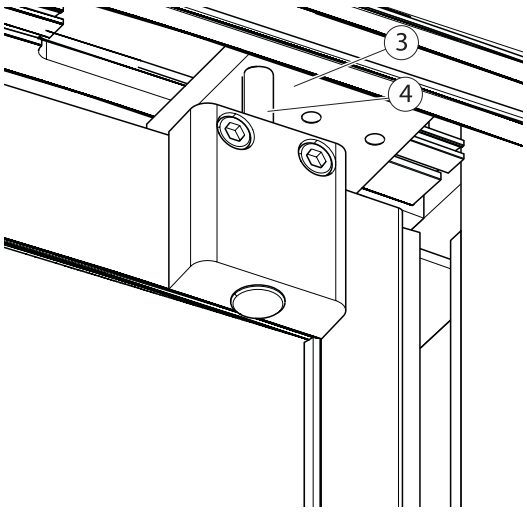
- Push the LV leaf towards the closed position.



- Tilt the protective leaf (1) and install it in the Revo.PRIME revolving door.
- Tilt the protective leaf (1) and insert it into the floor bearing (2).



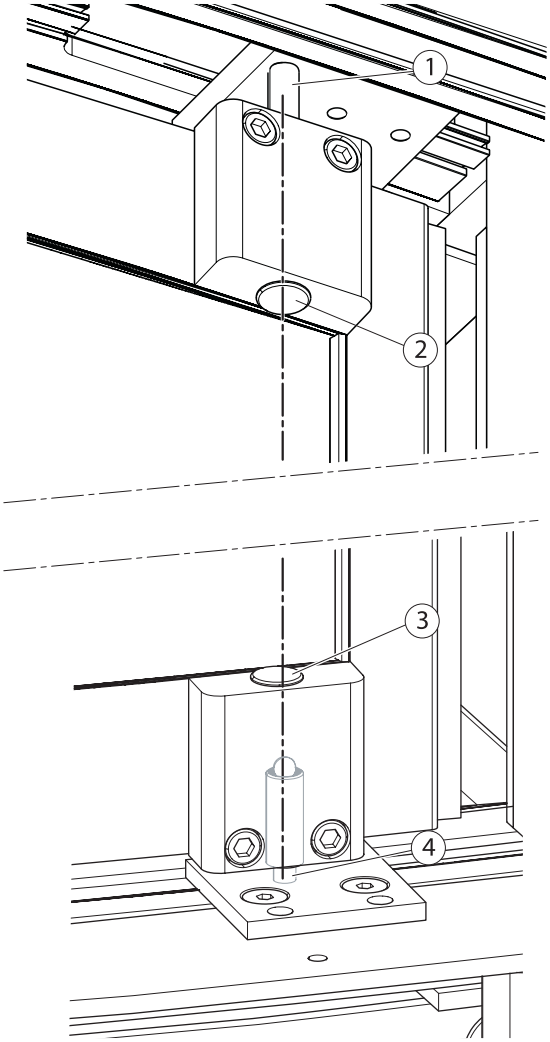
- Loosen the nut (5).
- Unscrew the threaded rod (4) and screw it into the bearing plate (3) (upper pivot bearing).



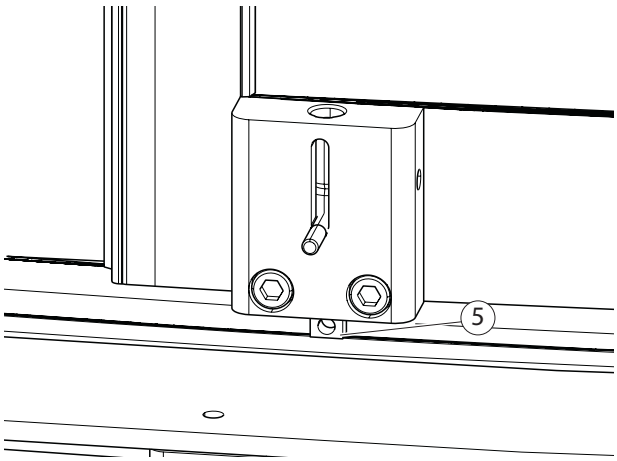
8.3.29 Adjust the protective leaf

Adjusting the height position

- Adjust the height position of the threaded rod (1) on the upper pivot bearing and set screw (4) on the lower pivot bearing.
- After adjustment, tighten the upper nuts (2).
- After adjusting the height position, clip in the caps (3).

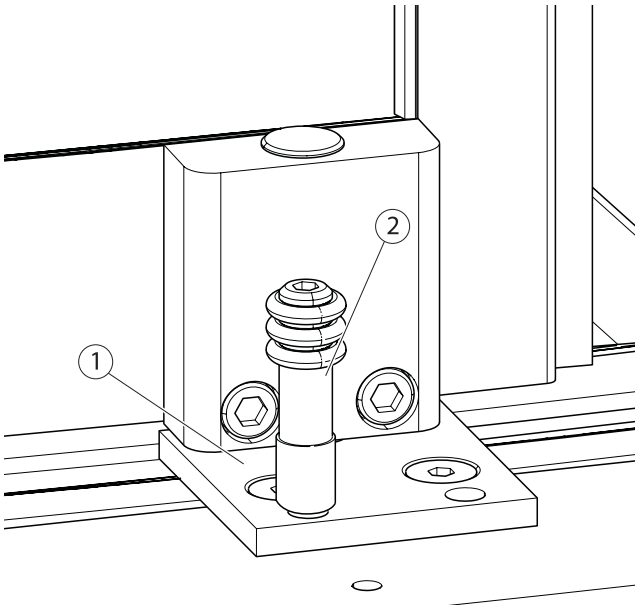


- Check to ensure the locking bolts (5) plunge cleanly into the floor area.



Mounting stop bolts

- Screw the stop bolts (2) into the lower pivot bearing (1).



8.3.30 Shortening the tooth belt cut protection

If the toothed belt collides with the cut protection:

- Shorten the cut protection so that the toothed belt passes the cut protection without contact.

8.3.31 Adjusting the rod locking

See the supplementary installation instructions for Slimdrive SL WK2 (mat. no. 136308).

8.4 Installation information for NV tooth belt guidance

see chapter 6.5 Installing closed position monitoring NV on page 43

8.5 Mounting the turnstile

see chapter 5.2.5 Installation without floor ring on page 11

8.5.1 Inserting the floor bearing

see chapter 5.2.5 Installation without floor ring on page 11

8.5.2 Mounting the collector ring

see chapter 5.2.11 Mounting the collector ring on page 17

8.5.3 Mounting the centre rod retainer

see chapter 5.2.12 Mounting the centre rod retainer on page 17

8.5.4 Mounting the centre rod below

see chapter 5.2.13 Mounting the centre rod below on page 18

8.5.5 Drilling a cable guide for post safety

see chapter 5.2.16 Drilling a cable guide for post safety on page 20

8.5.6 Mounting the side-hung leaves

see chapter 5.2.14 Mounting the side-hung leaves on page 18

8.5.7 Fastening the side-hung leaves

see chapter 5.2.15 Fastening the side-hung leaves on page 19

8.6 Mounting contact strips on the leaves

see chapter 5.3 Mounting switch contact strips on the leaves on page 20

8.7 Mounting RC 2 ceiling panels

To provide a better overview, the following illustrations are shown without side-hung leaf.

8.7.1 Placing on the cover

see chapter 5.5.1 Setting the cover plate in place on page 23

8.7.2 Mounting the outer side

see chapter 7.7.1 Placing on the cover on page 83

8.7.3 Mounting the inner side

see chapter 7.7.3 Mounting the inner side on page 88

8.7.4 Inserting and screwing in the segment sheets

see chapter 5.5.2 Inserting and screwing in the segment sheets on page 24

8.7.5 Installing the entrance mat

see chapter 5.5.3 Installing the entrance mat on page 25

8.8 Check list for commissioning and service

see chapter 5.6 Check list for commissioning and service on page 26

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