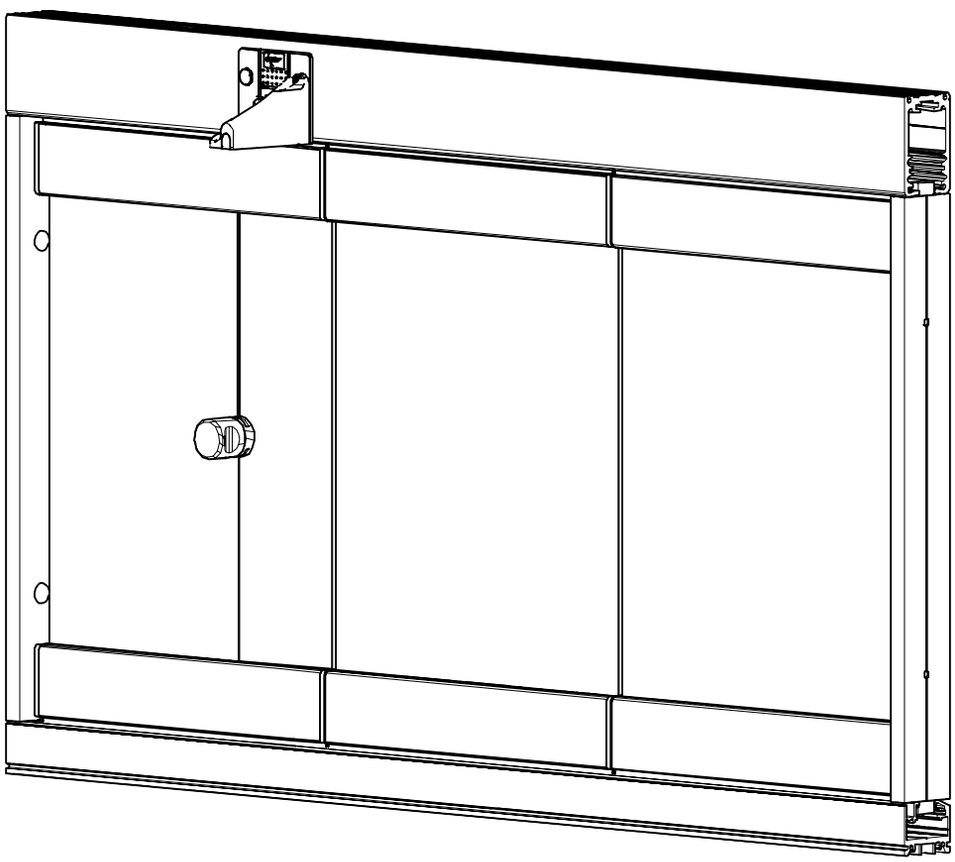
Moving Details.



Mounting instructions

BSW-G

DORMA GLAS®

EN

WN 80052-891-632
2025-03/016992

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1 About this document

1.1 Content and purpose

This document describes the mounting of the balcony sliding wall BSW-G. The system components and configurations shown are exemplary and do not show every possible mounting situation. Personnel must have carefully read and understood this document before starting any work. A prerequisite for safe working is compliance with all safety and handling instructions specified in this document.

1.2 Target group

This document is intended for qualified personnel who have been trained by DORMA-Glas.

1.3 Other applicable documents

The following documents relating to the product must also be observed:

- Order-related system drawing
- Instructions for individual components

1.4 Document retention

This document must be retained for the lifetime of the product and must be passed on to the system operator.

1.5 Abbreviations

SAEP	Single action end panel
SP	Sliding panel
FP	Fixed panel

1.6 Symbols used

1.6.1 Hazard categories

WARNING

This signal word indicates a potentially hazardous situation that can lead to death or serious injury if not avoided.

CAUTION

This signal word indicates a possible hazardous situation that may result in minor or slight injury if not avoided.

ATTENTION

This signal word indicates a potentially hazardous situation that can lead to property damage or environmental damage if not avoided.

Note

This signal word indicates useful information for efficient and trouble-free operation.

1.6.2 Other symbols

1. 2. Action steps in graphics

(1) (2) Position numbers of components in graphics

2 Safety

2.1 Intended use

- The product is designed to connect a balcony sliding wall to the railing, wall and ceiling of terraces or balconies.
- The product may only be mounted with system components that have been approved by DORMA-Glas.
- The product may only be assembled undamaged and in accordance with the requirements for the assembly location.
- The product may only be installed by qualified personnel who correspond to the defined target group.
- Toughened safety glass (TSG) or laminated safety glass (LSG) made of TSG are the only types of glass that may be installed with the product.
- The product may only be attached to a load-bearing substrate with suitable fastening material.
- The maximum travel speed of 0.25 m/s must not be exceeded.

2.2 Reasonably foreseeable misuse

- The product must not be used as fall protection.
- Do not make any modifications. These can affect the safety of the balcony sliding wall.

Note

Modifications to the product are not permitted. The manufacturer is not liable for damage and malfunctions resulting from modifications to the product!

2.3 Basic warnings

WARNING

Danger to life due to falling panes of glass.

Falling panes of glass can lead to life-threatening injuries.

- Mount the panes of glass with at least 2 people.
- Fasten the panes of glass professionally.
- Follow the mounting sequence.

WARNING

Danger to life due to falling.
The failure of the system, e.g. due to glass breakage, may lead to injury as people could fall.
- The system must not be used as fall protection.

3 Product description

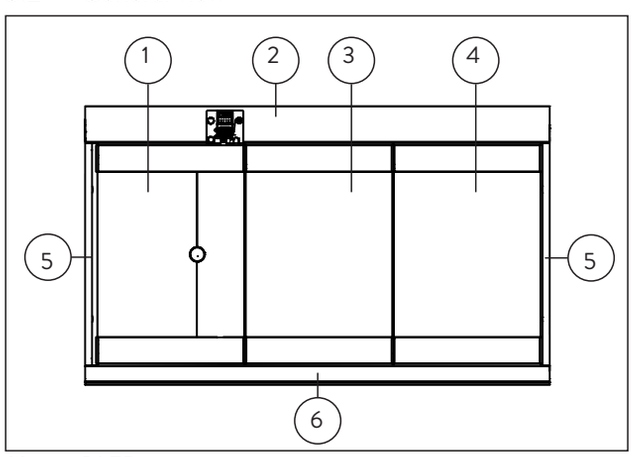
The BSW-G is a partition wall system for terraces, balconies and balconies with railings for conditional protection against the effects of the weather without special requirements for sound, fire, smoke and heat protection.

3.1 Parts included in delivery

The scope of delivery consists of the following components as standard:
- Track rails incl. station with fastening screws
- Guide rail
- Weather protection bracket
- Panel with carriage and doors, complete (without glazing)

The fastening material for the different building materials is not included in the scope of delivery.
The actual scope of delivery is stated in the delivery note.

3.2 General view



(1) SAEP
(2) Track rail
(3) SP1
(4) SP2
(5) Weather protection profile
(6) Guide rail

3.3 Technical data

Max. unit height	2800 mm
Max. panel width	900 mm
Max. panel height	2670 mm
Max. panel weight	80 kg
Angular deflections:	90°, 130° to 178°
Glass thicknesses:	8, 10 and 12 mm
Max. travel speed:	0.25 m/s
Temperature range:	-40° C to +80° C

4 Delivery and transport

CAUTION

Risk of injury due to high weight.
Lifting heavy components can lead to injury.
- Lift the heavy components together with several people or a suitable lifting device.

CAUTION

Risk of crushing and impact due to unsecured components.
Unsecured components can lead to crushing and impact injuries during transport.
- Wear personal protective equipment.
- Secure components adequately during transport.

ATTENTION

Risk of damage to glass components due to contact with hard materials (e.g. glass, metal, concrete).
Contact can lead to chipping, edge injuries and/or breakage of the glass components.
- Protect glass edges with spacers.
- Do not install damaged glass components.

ATTENTION

Risk of damage during transport.
Unsecured components can be damaged during transport.
- Secure components adequately during transport.

5 Mounting

5.1 Safety during mounting

CAUTION

Risk of injury from objects tipping over.
Unsecured components may tip over and lead to injury.
- Wear personal protective equipment.
- Store and mount objects so that they cannot tip over.

CAUTION

Risk of injury from crushing.
During mounting, crushing injuries to the fingers can occur due to heavy shearing components.
- Wear protective gloves.
- If necessary, lift and insert the glass panes using a vacuum lifting tool.

CAUTION

Risk of injury due to high weight.
Lifting heavy components can lead to injury.
- Lift the heavy components together with several people or a suitable lifting device.

CAUTION

Risk of injury due to glass breakage during mounting.
Improper installation may lead to glass breakage and cause injury.
- Secure installation location.
- Carry out mounting with at least 2 people.
- Wear protective clothing.
- If necessary, If necessary, use suction lifters.
- Place glass panes on trestles for storage or place them on blocks and secure them against falling over.

CAUTION

Risk of injury due to inadequate and unstable fastening.
The track rails and lower guide rails must be fastened and screwed in a load-bearing manner.
- Only use components designed and approved by DORMA-Glas.
- Fastening with silicone or glue is not allowed.

ATTENTION

Risk of damage to glass components through contact with hard materials (e.g. glass, metal, concrete).
Contact with hard materials can lead to chipping, edge injuries and/or breakage of the glass components.
- Damaged glass components must not be installed – risk of injury.

5.2 Requirements for mounting

The installation dimensions on site must allow for mounting within the specified tolerances.

5.3 Requirements for the assembly location

The installation situation on site may differ from the planned system. Before mounting, the installation dimensions and tolerances of the components must be checked and observed. If installation dimensions or tolerances differ, there is a risk of glass breakage. Compensate for any unevenness on the wall, ceiling and/or floor if necessary.

5.4 Mounting the frame

Note

DORMA-Glas recommends the use of a telescopic prop.

1. Check the opening for proper installation (overall height and width).

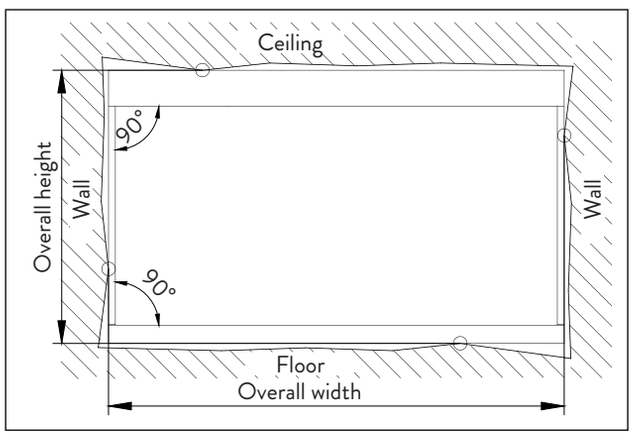


Fig. 1 Opening

2. Set markings on the opening to be able to align the profiles correctly.
3. If necessary, compensate for any unevenness in the opening.
4. Close any remaining gaps with silicone.

Note

- Use a permanently elastic and UV-resistant silicone for siliconization purposes.
- Use an LSG-compatible silicone to siliconize LSG glazing.

5. Place the guide rail in the appropriate position (railing or floor).
6. If there are several profile sections, mount the connectors if necessary.

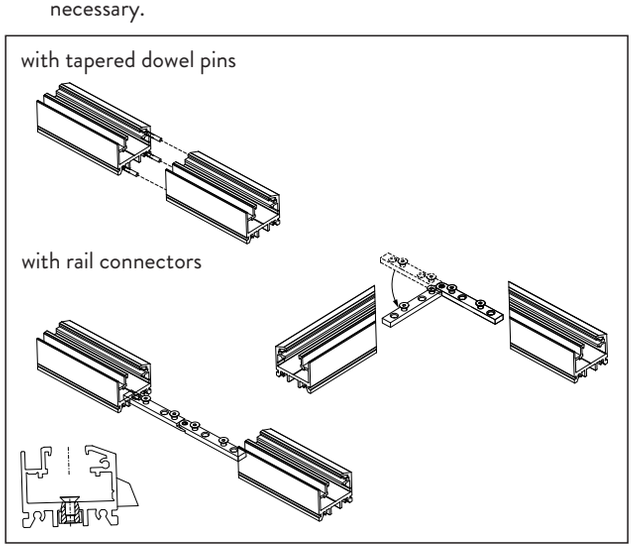


Fig. 2 Connect the guide rail

7. Check that the weather protection bracket can be mounted perpendicular to and flush with the guide rail (see Fig. 1).
8. Mark the mounting holes of the guide rail.

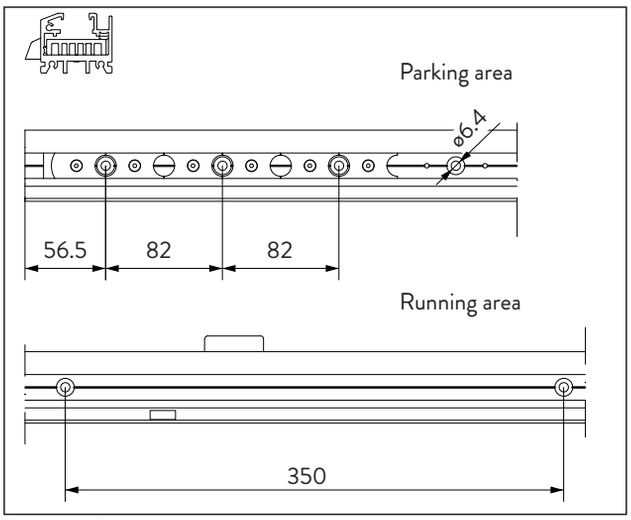


Fig. 3 Bore grid of the guide rail

9. Align and fasten the guide rail.
10. Hammering the centering pieces into the weather protection brackets

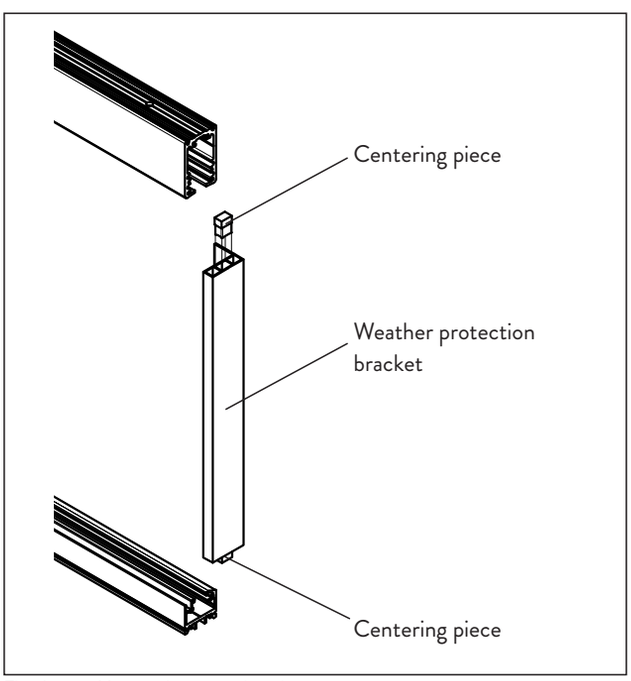


Fig. 4 Hammering centering pieces

11. Align the weather protection bracket on the single action end panel and attach it vertically to the wall.

Note

The weather protection brackets can be used as a distance gauge for the distance between the track rail at the top and the guide rail at the bottom.
Never shorten the weather protection brackets!

12. Insert the pivot point mount from the pivot point into the track rail.

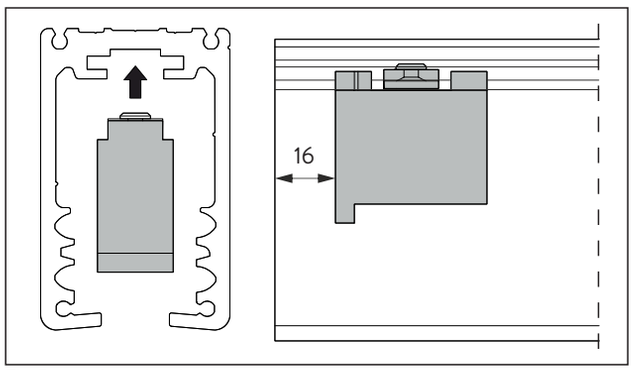


Fig. 5 Inserting the pivot point mount

13. Position the pivot point mount at a distance of 16 mm from the edge of the track rail (see Fig. 5).

14. Fasten the pivot point mount in this position using the screw until the clamping plate is clamped in the track rail.

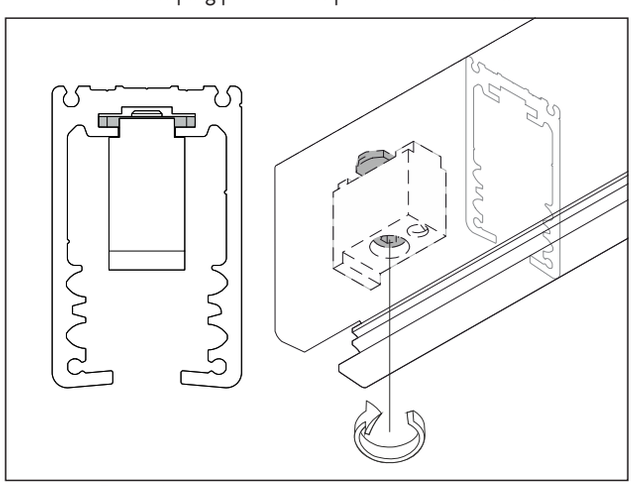


Fig. 6 Fitting the pivot point mount

15. Check that the position of the pivot point mount is tightly fitted.

16. Align the second weather protection bracket vertically and flush with the guide rail and the track rail on the wall.

Note
The second weather protection bracket initially serves as a spacer between the guide rail and the running rail and is not yet attached.

17. Place the running rail on the weather protection brackets.

Note
In order to ensure the roller can run, the track rail marking must point outwards.

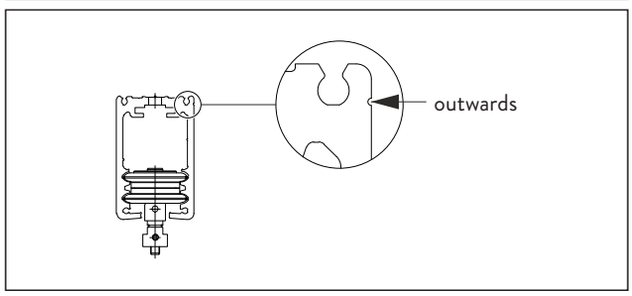


Fig. 7 Track rail marking

18. Mark the mounting holes of the track rail.

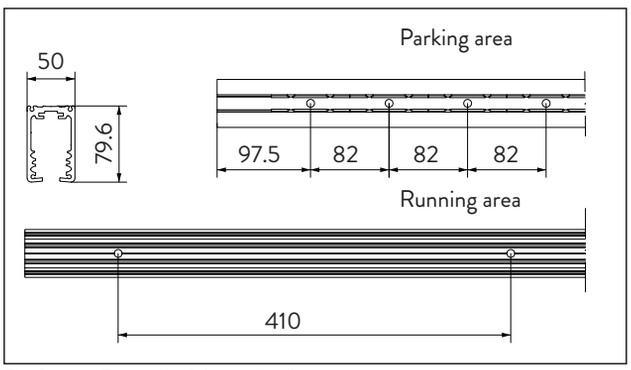


Fig. 8 Bore grid of the track rail

19. If there are several track sections, mount the connectors if necessary.

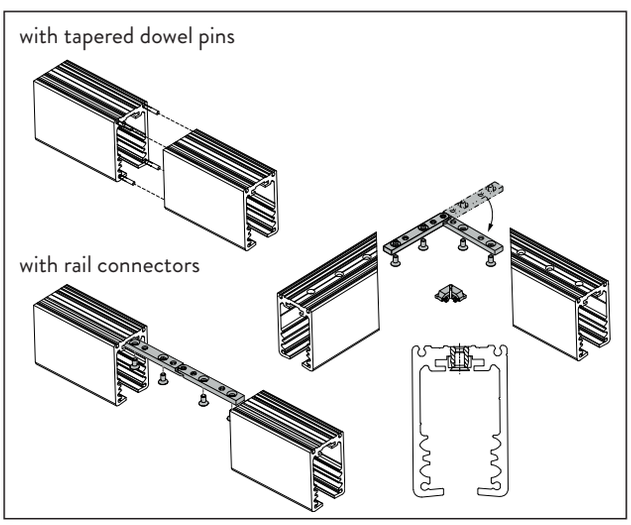


Fig. 9 Connecting the track rail

20. Mark the mounting holes.

21. Mount the track rail on the ceiling.

22. Clean the track rail.

23. Align the second weather protection bracket and mount it on the wall perpendicular to the guide rail and the track rail.

5.5 Mounting door rail

1. Clean the glass in the area of the clamping surfaces.

Note
The glass must be clean and free of dust and grease.

2. Glue the edge protection to the top and bottom, right and left of the glass edge.

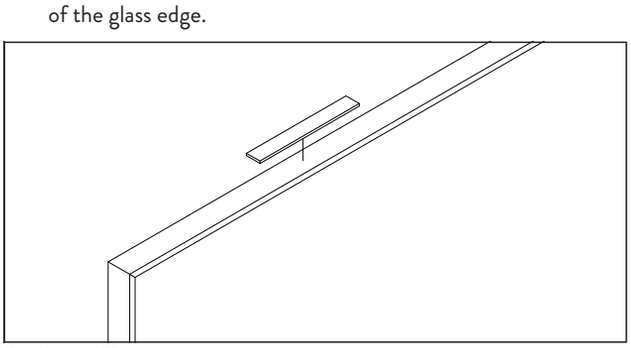


Fig. 10 Glue on edge protection

3. Mount the door rails on the glass.

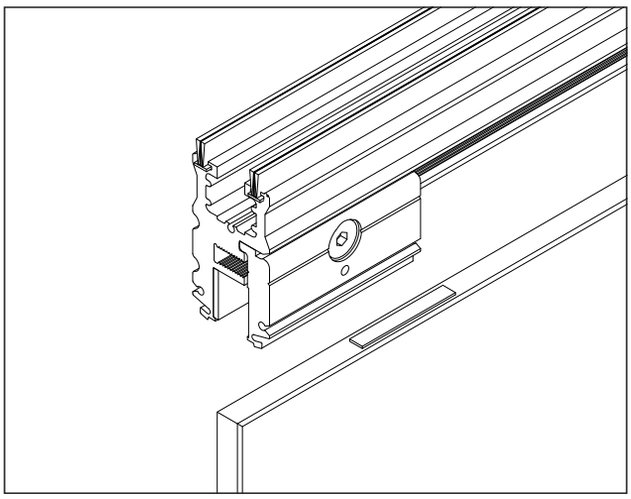


Fig. 11 Mounting door rail

4. Place the two outer clamping pieces flush with the edge of the glass. Distribute all other clamping pieces evenly on the door rail.

5. Tighten the clamping pieces to 8 Nm.

Note
The holes for the pull ropes must be on the inside.

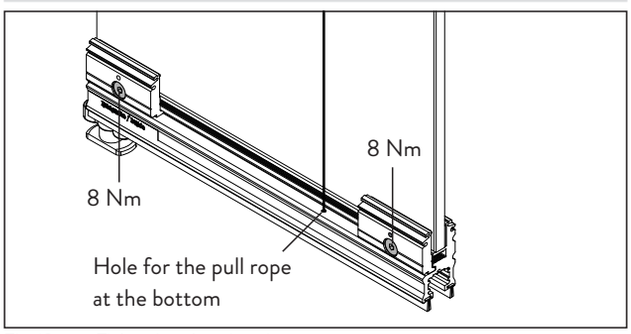


Fig. 12 Tightening clamping pieces

5.6 Single action end panel

5.6.1 Mounting single action end panel

1. Slide the support block of the upper pivot bearing flush into the door rail.

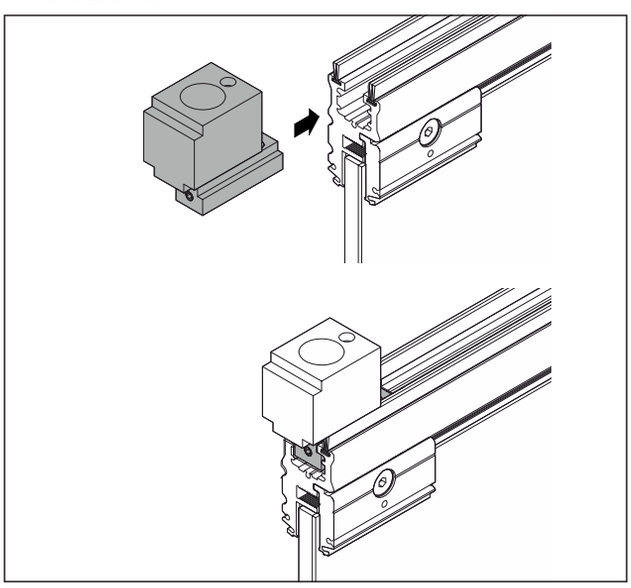


Fig. 13 Inserting the support block flush

2. Fasten the support block in this position using the screw until the support block is clamped in the door rail.

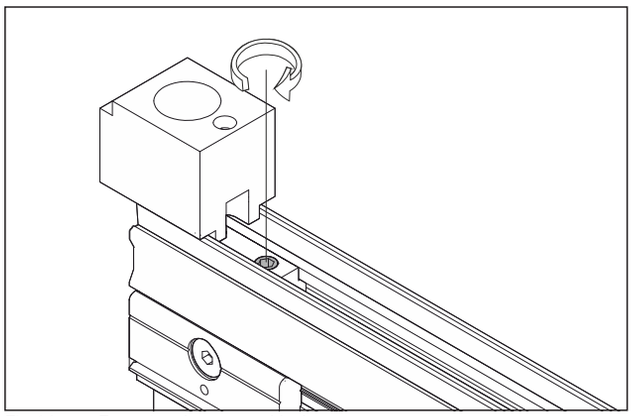


Fig. 14 Fastening the support block

3. Mount the lower guide flush with the door rail.

4. Install the end covers on the pivot point side with the stop facing outwards (see 5.7).

5.6.2 Setting up single action end panel

1. Place the SAEP with the lower guide in the lower guide rail.

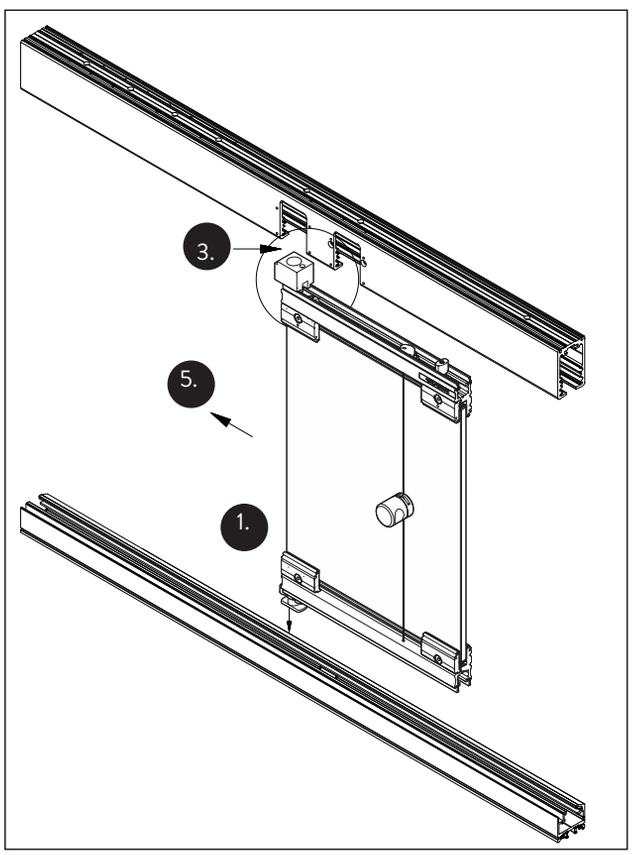


Fig. 15 Setting up the single action end panel

2. Make sure that the plastic guides are in the groove.

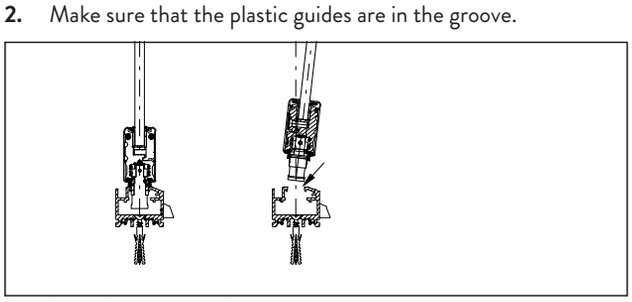


Fig. 16 Plastic guide in the groove

3. Insert the upper pivot bearing into the track rail through the exit.
4. Lift the panel and push it into the parking cassette.

> **Note**
> If there is a collision in the upper area, then the upper pivot bearing is too high in the track rail. The bottom of the pivot bearing must be flush with the bottom of the track rail (see Fig. 17).

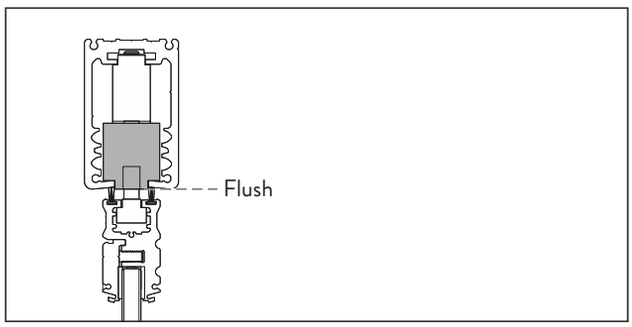


Fig. 17 The pivot bearing is flush with the track rail

5. When the panel is in the correct parking position, pivot the panel up.

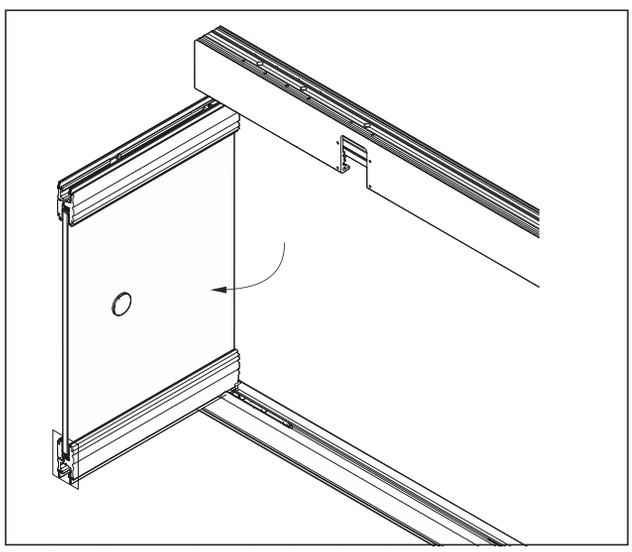


Fig. 18 Untwisting the single action end panel

6. Connect the upper pivot bearing and the support block of the upper pivot bearing with the grub screw.

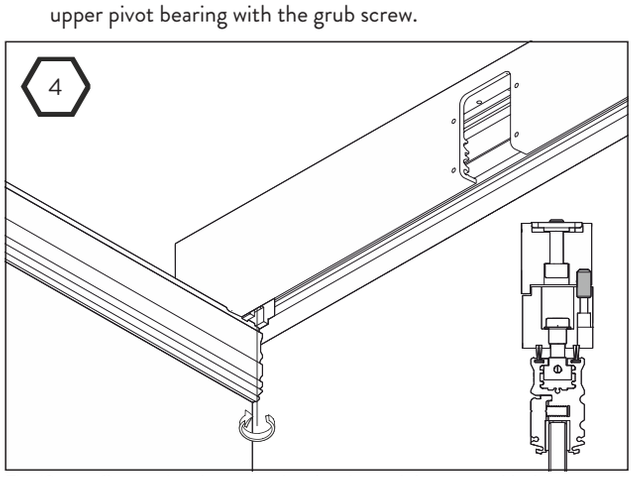


Fig. 19 Connecting the upper pivot bearing and the support block

5.6.3 Mounting locking pin

1. Insert the locking pin with the spring into the recess.

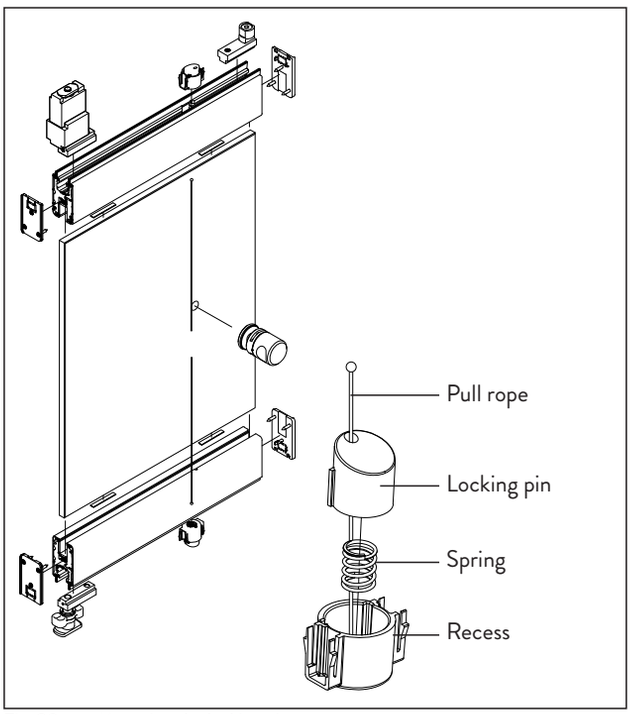
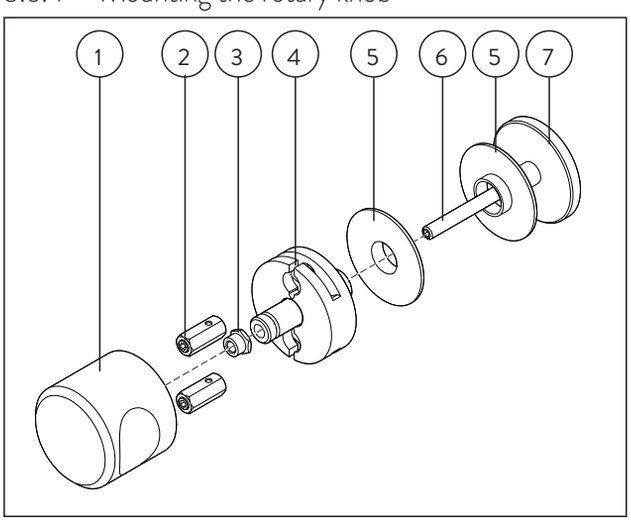


Fig. 20 Mounting the locking pin

2. Guide the rope through the mounting hole.
3. Adjust and fix the rope in accordance with "Mounting the rotary knob".

5.6.4 Mounting the rotary knob



(1) Rotary knob
(2) Cable end bottom
(3) Nut (ISO 10511)
(4) Rope shaft
(5) Sliding disc (2x)
(6) Grub screw (DIN 913)
(7) Washer

1. Insert the washer with the grub screw and the sliding disc through the outside of the glass hole.
2. Screw the rope shaft with the sliding disc inside tightly with the nut so that backlash-free rotation is possible.
3. Insert the rope through the hole into the cable end bottom.

4. Tighten the rope.

Note
The latches must have a slight tension.

5. Fix the rope in this position with the grub screw.

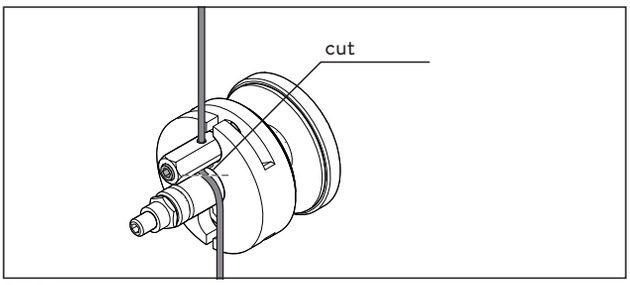


Fig. 21 Mounting rope

6. Then remove the cable end bottom and cut the rope flush.

7. Insert the cable end bottom completely into the sheave.

8. Finally, fasten the rotary knob using the grub screw

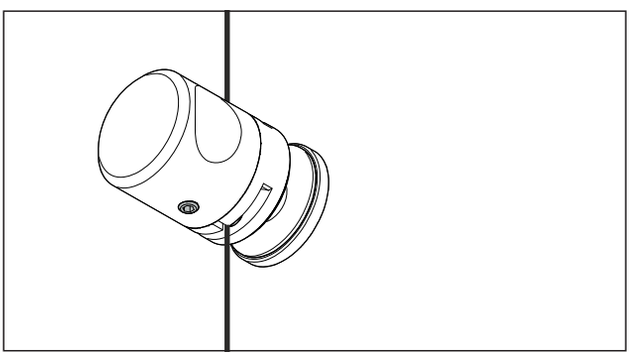


Fig. 22 Fastening the rotary knob

9. Insert the sash stop and position it.

10. Screw on the end covers.

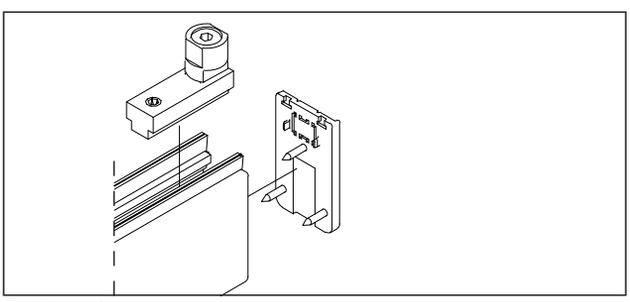


Fig. 23 Screwing on end covers

5.7 Mounting end covers

Note
Pay attention to the panel combination.

1. Attach the end cover to the door rail.

2. Attach the end cover to the door rail with the 3 screws.
The end covers must be prepared depending on the panel combination to ensure they can be combined. For this purpose, part of the end cover may have to be removed, e.g. with a cutter knife.

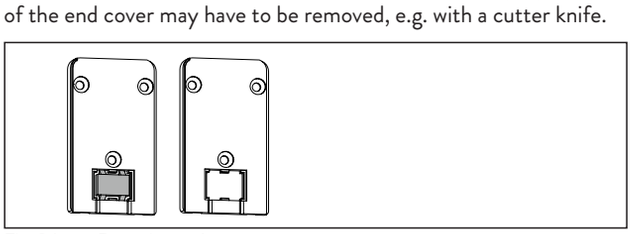


Fig. 24 Preparing end covers

5.7.1 Single action end panel and first sliding panel

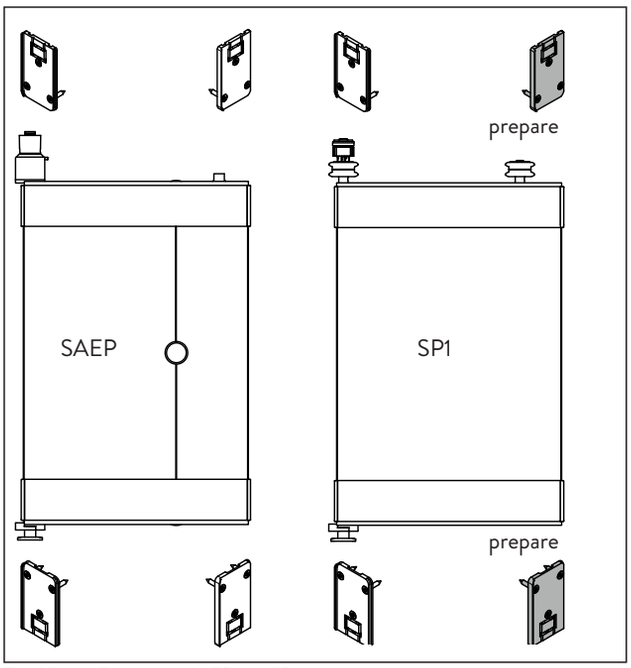


Fig. 25 End covers SAEP and SP1

With high roller on the pivot point side, with stop on the outside. The other side with stop inside.

Fig. 26 End covers top

Fig. 27 End covers bottom

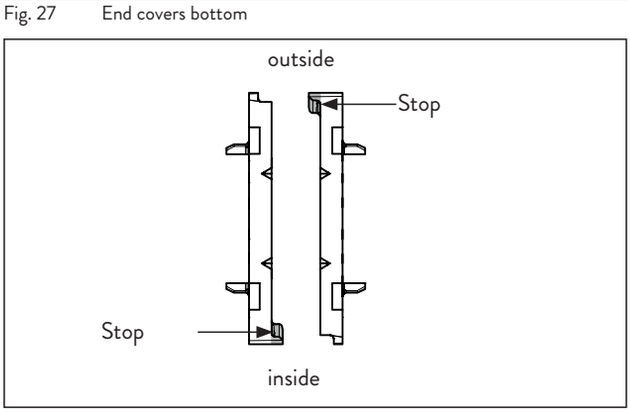


Fig. 28 End covers stop

5.7.2 Second sliding panel

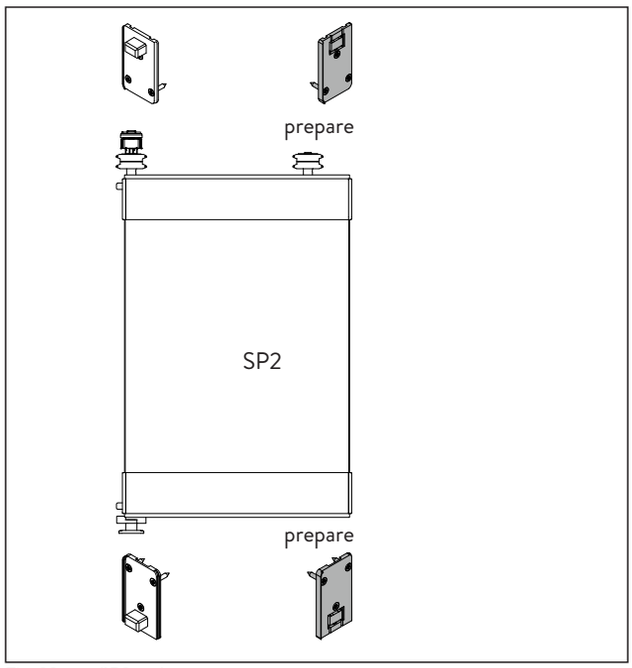


Fig. 29 SP2 end covers

With high roller and stop on the outside.
The other side with stop inside.

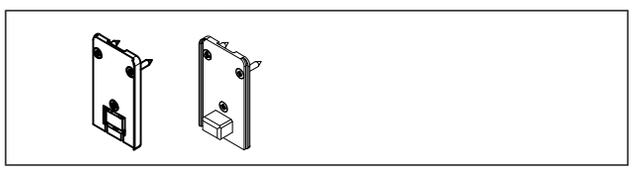


Fig. 30 SF2 end covers top

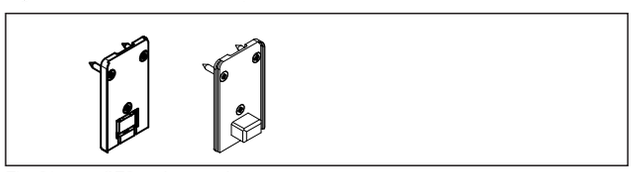


Fig. 31 SF2 end covers bottom

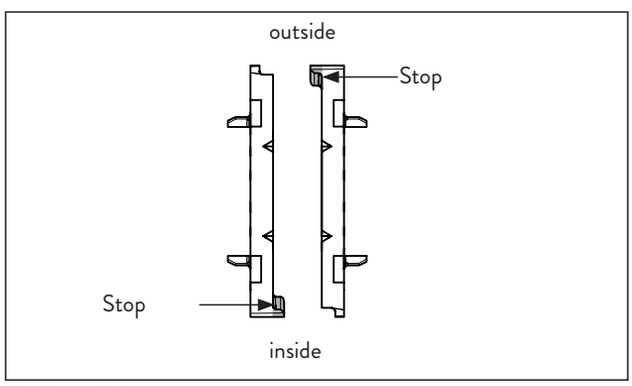


Fig. 32 End covers stop

5.7.3 Fixed panel

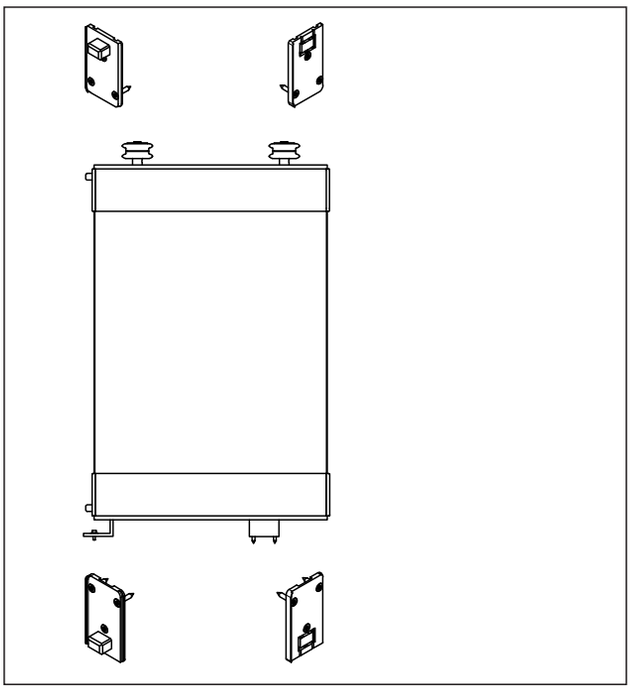


Fig. 33 FP end covers

With stop on the outside.
The other side with stop inside.

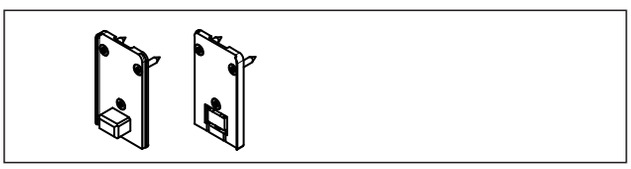


Fig. 34 FP end covers top

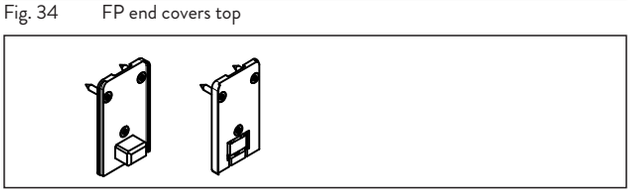


Fig. 35 FP end covers bottom

5.8 Sliding panel

5.8.1 Mounting sliding panels

1. Mount the door rail on the glass (see 5.5).
2. Tighten the clamping pieces to 8 Nm (see 5.5).
3. Install the support block of the pivot point roller carriage and the lower guide flush with the door rail profile.

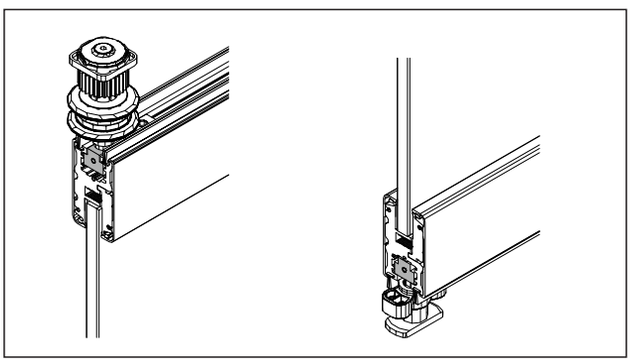


Fig. 36 Mounting support block and lower guide

4. Check the gear runs freely before mounting.
5. If the gear is locked, rotate the headstock 90° to unlock the gear.

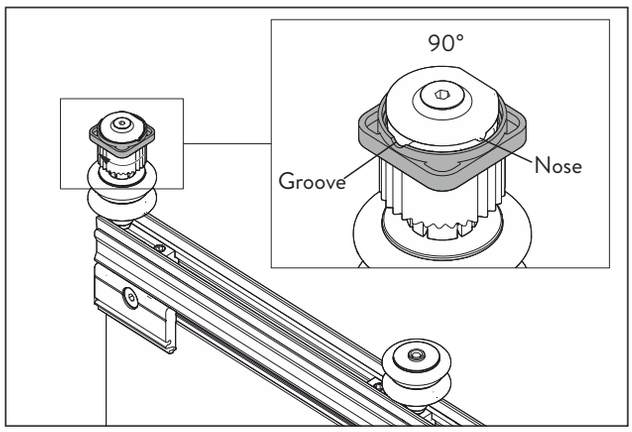


Fig. 37 Rotating the head plate by 90°

6. Mount the end covers (see 5.7).

5.8.2 Hooking in sliding panel

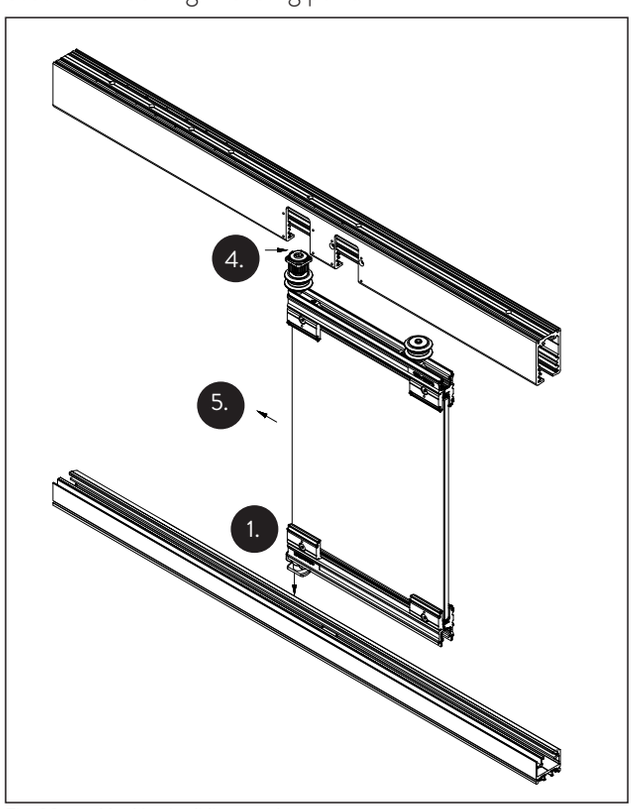


Fig. 38 Hooking in sliding panel

1. Place the SP with the lower guide in the lower guide rail.
2. Make sure that the plastic guides are in the groove.

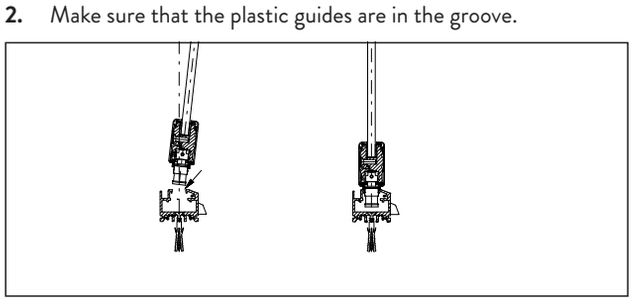


Fig. 39 Plastic guide in the groove

3. Raise the panel.
4. Insert the pivot point roller carriage through the exit into the track rail.
5. Push the panel into the parking cassette.
6. When the panel is in the correct parking position, the panel can be pivoted up.
7. Slide the swing-out roller carriage into the door rail and position it (see 5.8.3).
8. Mount the end cover (see 5.7).

5.8.3 Mounting swing-out roller carriage

1. After the panels are mounted and unfolded in the parking area, insert the sash stop in the single action end panel and the second load-bearing roller in the sliding panel.
2. In the case of 2 panel packages, the rollers with the guide are used in the first package.
3. Mount the end cover (see 5.7).

5.9 Mounting the stopper

1. Insert the stopper block into the door rail of the last sliding panel at a distance of 30 mm.

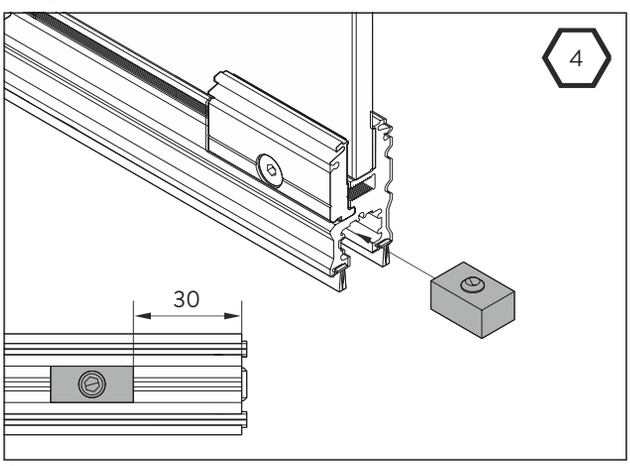


Fig. 40

2. Clamp the stopper block in the door rail with the grub screw.
3. Insert the stopper into the lower guide rail.

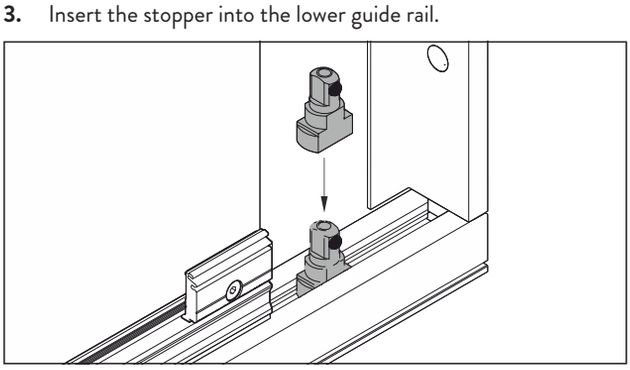


Fig. 41 Inserting the stopper

4. Turn the stopper by 90° so that the rubber buffer is facing the sliding panel.

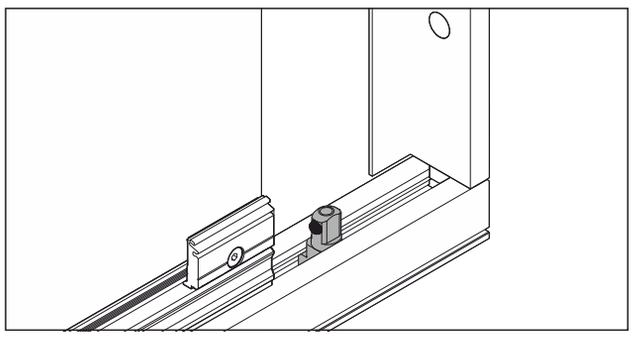


Fig. 42 Rotating the stopper by 90°

5. Slide the sliding panel into its end position at a distance of 6 mm from the weather protection profile.

> **Note**
> We recommend using wooden blocks to maintain the precise distance.

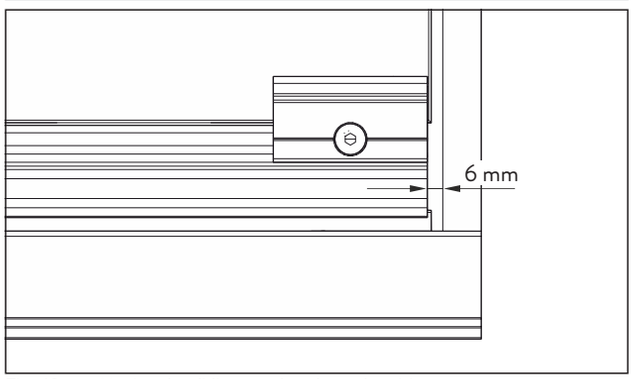


Fig. 43 Moving the sliding panel to the end position

6. Open the sliding panel again.

7. Secure the stopper in this position with the grub screw.

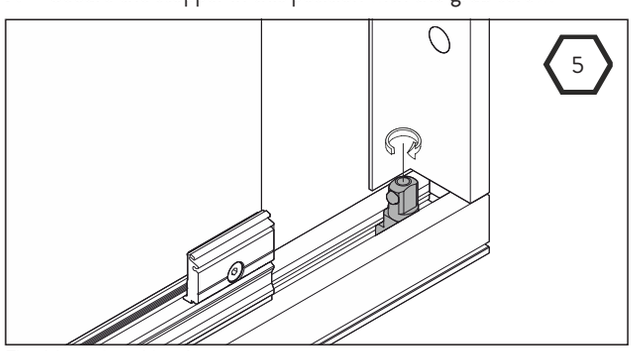


Fig. 44 Attaching the stopper

8. Mount the end cover (see 5.7).

› The stopper is mounted.

5.10 Fixed panel

5.10.1 Mounting fixed panel

1. Mount the door rail on the glass (see 5.5).

2. Tighten the clamping pieces to 8 Nm (see 5.5).

3. Mount the rollers with the support blocks flush in the door rail.

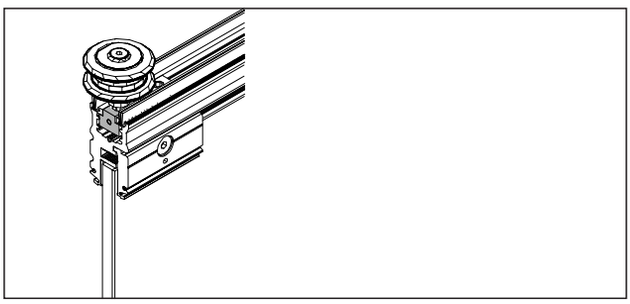


Fig. 45 Mounting the roller

4. Install the screw block for the stopper with a distance of 45 mm and the fixed panel holder with a distance of 30 mm from the front side in the lower door rail.

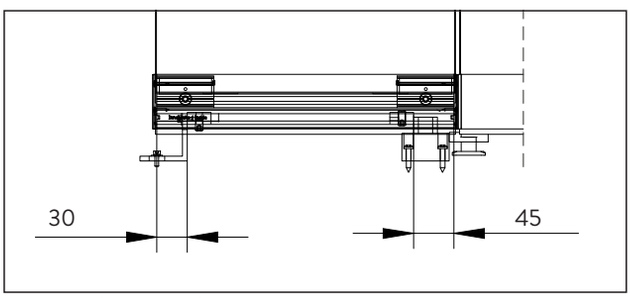


Fig. 46 Stopper and fixed panel holder

5. Position the stopper unit with the fixed panel in the lower guide rail and screw it together.

6. Screw the angle of the fixed panel holder to the support block and fix it in the guide rail.

7. Mount the end covers (see 5.7).

› The fixed panel is mounted.

5.10.2 Setting up fixed panel

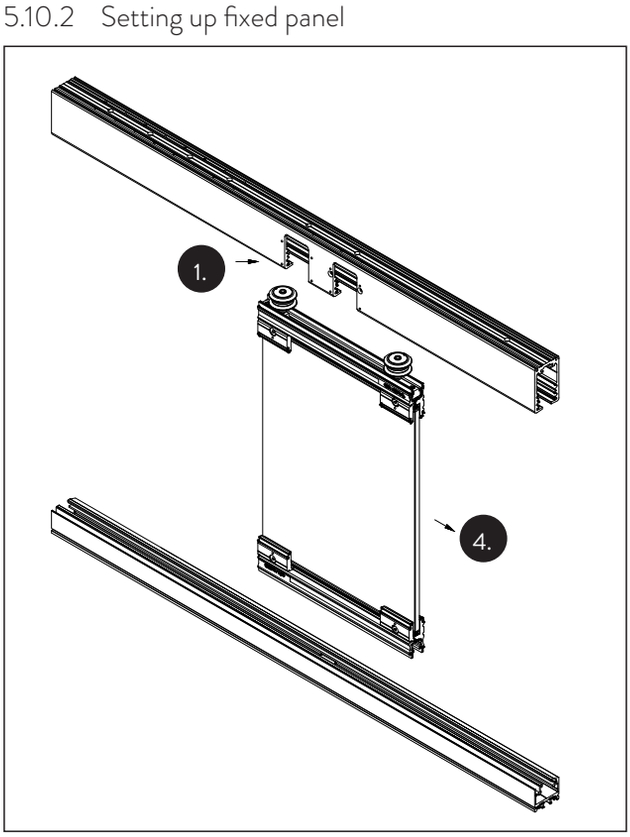


Fig. 47 Setting up fixed panel

1. Thread the fixed panel into the track rail with the rollers and move it to the intended location.

2. Align the stopper and the fixed panel holder.
3. When the panel is in position, the panel can be fixed in place.
4. Slide the sash stop in and fix it in place (see point 4 item 4).
5. Mount the end cover (see 5.7).

› The fixed panel is set up.

5.11 Mounting exits

Note
There are 1 or 2 exits depending on the system design.
For 1 exit, the guide is screwed into the track rail and the exit is screwed outside in front of the track rail.
For 2 exits, the guides are screwed into the track rail and, in the second exit, an additional guide rail is screwed in.

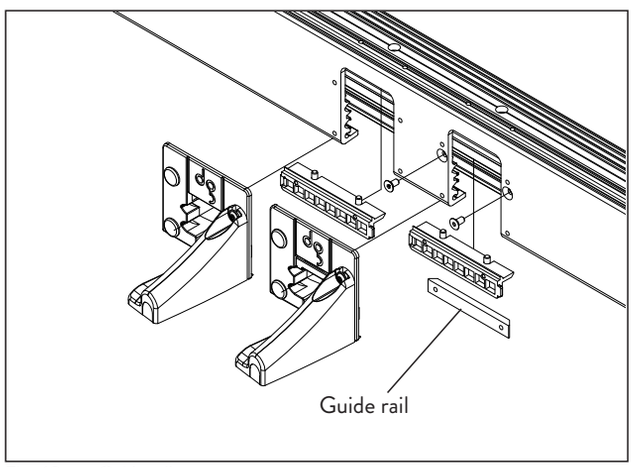


Fig. 48 Guide rail

1. At exit 1, preparations are made accordingly for the rollers with the guide in package 1.

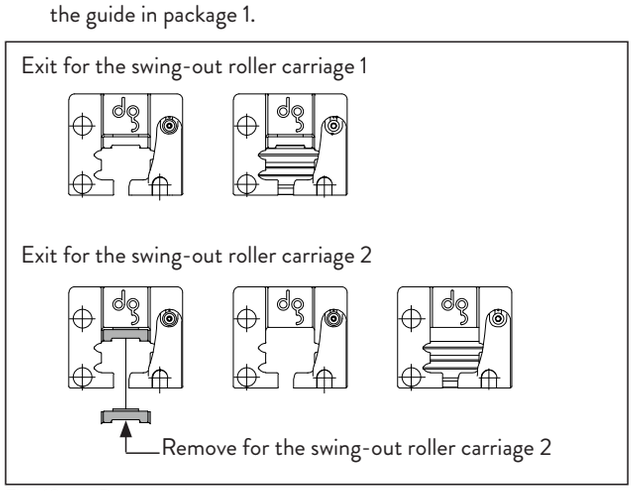


Fig. 49 Preparing the exit

2. Screw the exits to the track rail.
3. Loosen the clamping screw in the support block.

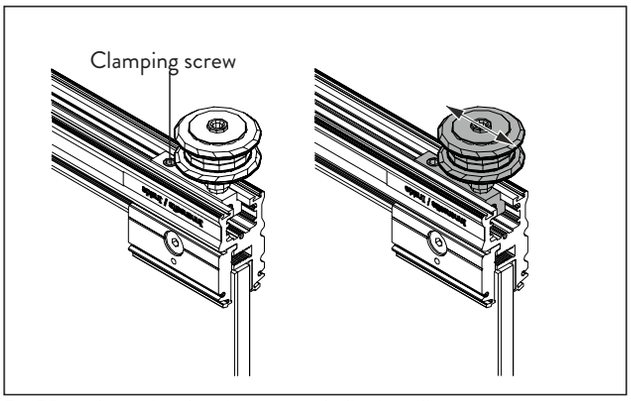


Fig. 50 Loosening clamping screw and adjusting roller

4. Adjust the rollers according to the exits.
5. Swing the panel into the exit.
6. Swing in the roller carriage and tighten the clamping screw.
7. Check the panels when closed.

5.12 Gluing clamping pieces

In the following cases, the upper clamping pieces need to be glued:
- Laminated safety glass (LSG according to EN ISO 12543-1)
- Door leaf from 60 kg

INNOTEC ® Repaplast
Safety data sheet, technical information and processing instructions from the adhesive manufacturer
Please note!

Note limited processing time of 3 minutes at a room temperature of approx. 23°C.

1. Check the clamping pieces for a torque of 8 Nm.
2. Discard one mixing tube before use to avoid incorrect mixing and to ensure optimum adhesive curing (dispose of in accordance with the safety data sheet).

3. Inject the adhesive into the clamping pieces through the injection holes.

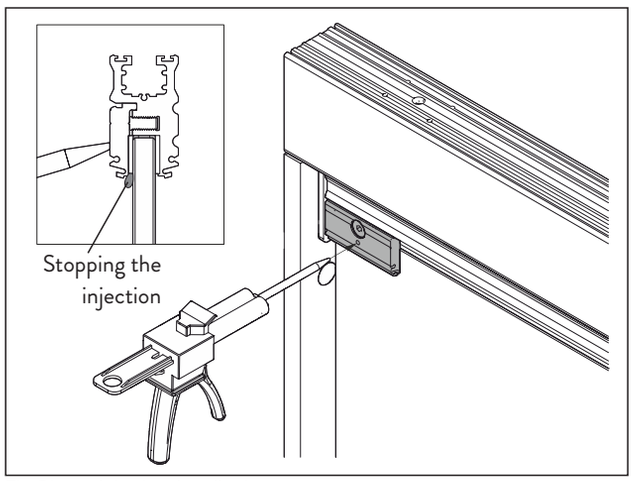


Fig. 51 Injecting the adhesive

4. Stop the injection as soon as the adhesive emerges from the bottom (see Fig. 51).
5. Carefully remove the leaked adhesive only after the curing time has elapsed.

> The curing time is 15 minutes
> at a room temperature of approx. 23°C.

6. Do not use the system during the curing time !
7. After a further 45 minutes, the door may be used with due care.

CAUTION

Risk of injury due to inadequate and unstable fastening.

The adhesive must cure properly

- The system may only be moved with utmost care during the next 24 hours.
- The 24 hours start 1 hour after the adhesive is injected. Do not expose the system to any sudden loads until 24 hours have elapsed.

5.13 Mounting cover plates

1. Check the clamping pieces for a torque of 8 Nm.
2. Loosen the end covers slightly on one side.
3. Hook the cover plates onto the corresponding panels on the brush side.
4. Clip the cover plates onto the profile.

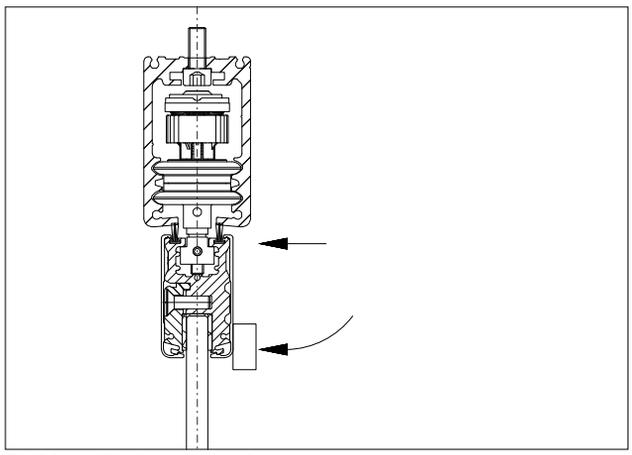


Fig. 52 Clipping on cover plates

5. Hold a clean allowance on the edge of the cover plate (see Fig. 52).
6. Hit the allowance with a hammer until the cover plate clips onto the base profile.

› The system is installed.

5.14 Fix door leaves in park position

Wind safety device for fixing the door leaves in the park position

1. Untwist the single-action end panel.
2. Position Slowly push the sliding panel into the parking cassette by hand as far as it will go.
3. Position Pivot the sliding panel up to the final position.
4. Proceed in the same way with all other sliding panels.
5. Insert the door leaf safety guard into the guide rail (see Fig. 53/1).

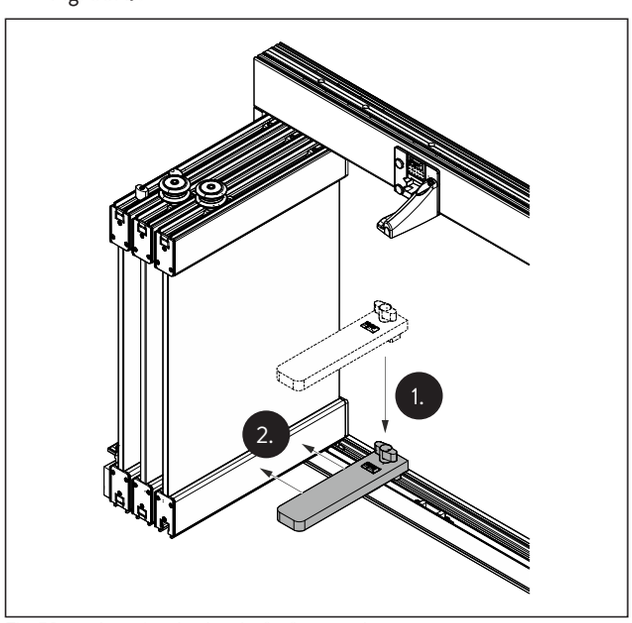


Fig. 53 Inserting the door leaf safety guard

6. Slide the door leaf safety guard to the door leaves (see Fig. 53/2).

7. Attach the door leaf safety guard (see Fig. 54).

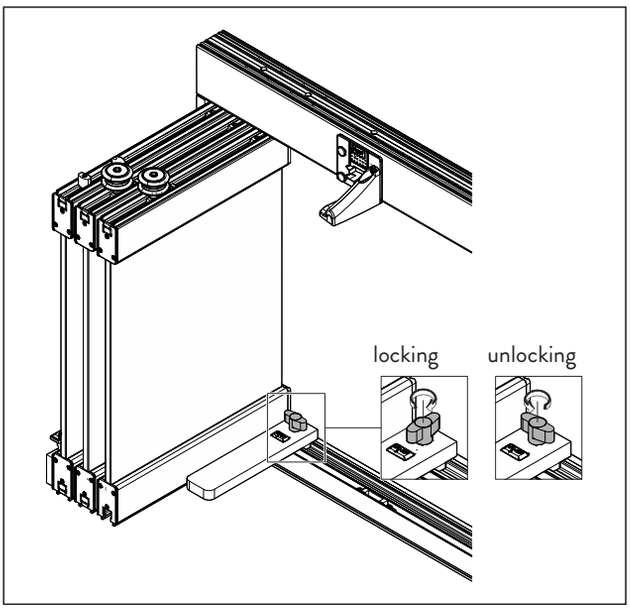


Fig. 54 Attaching the door leaf safety guard

» **The door leaves are fixed in the parking position**

5.15 Fitting locking bolts (optional)

The locking bolt is optionally fitted to the single action end panel and also secures the single action end panel in the lower guide rail.

1. Place the locking bolt flush with the cover plate on the door rail.

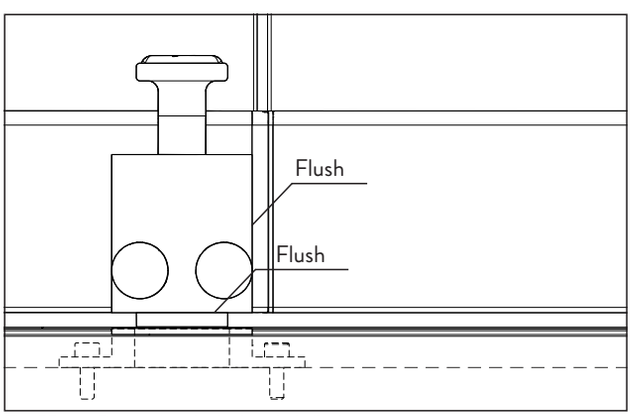


Fig. 55 Positioning the locking bolt flush

2. Mark the required drill holes.

3. Drill the M6 threaded holes.

4. Attach the locking bolt to the door rail using the screws.

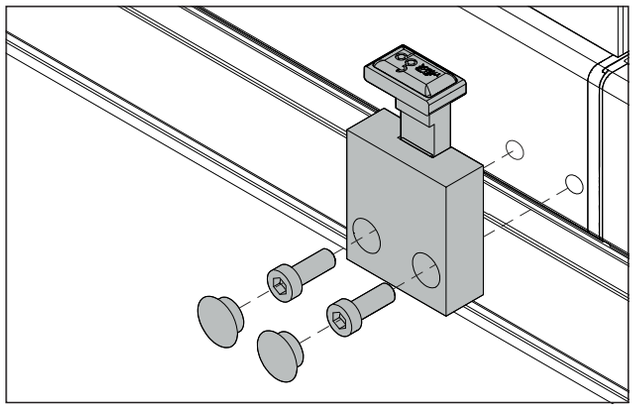


Fig. 56 Attaching the locking bolt

5. Close the holes in the locking bolt with the cover caps (see Fig. 56).

6. Insert the strike plate into the lower guide rail.

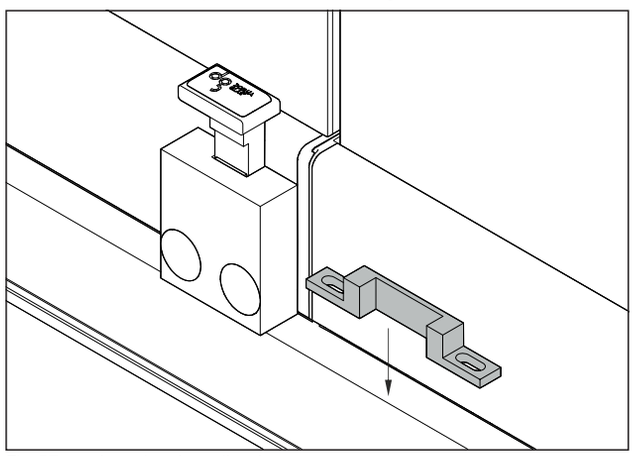


Fig. 57 Inserting the strike plate

7. Slide the strike plate under the locking bolt.

8. Actuate the locking bolt to determine the exact position of the strike plate.

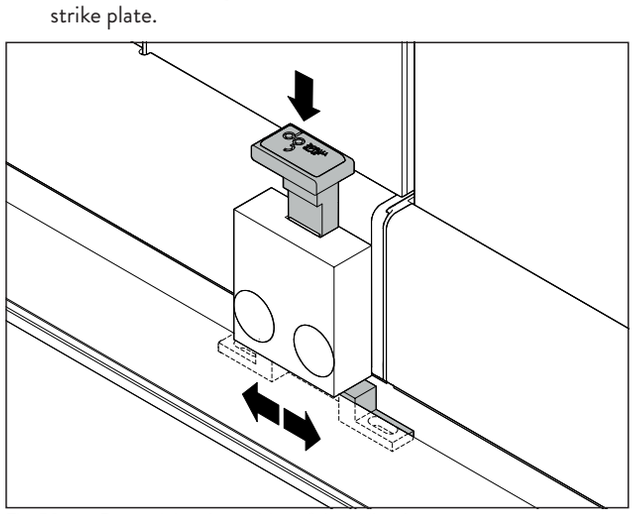


Fig. 58 Determining the position of the strike plate

9. Release the locking bolt again and open the single action end panel.

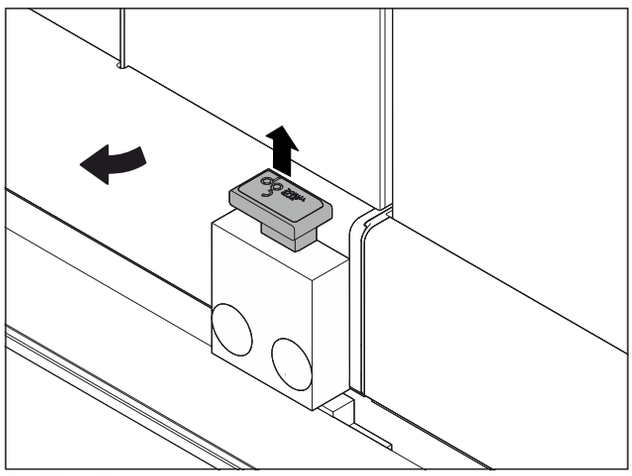


Fig. 59 Opening the single action end panel

10. Fix the strike plate in place and mark the required holes.

11. Drill the 3.3 mm diameter holes.

12. Fasten the strike plate with the enclosed screws.

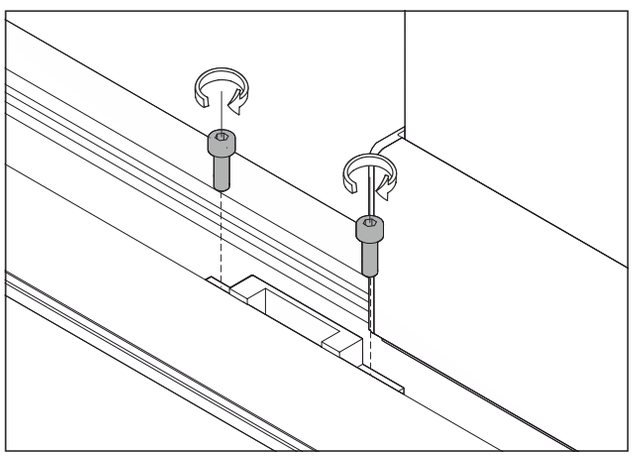


Fig. 60 Attaching the strike plate

13. If necessary, adjust the strike plate using the elongated holes so that the locking bolt engages and locks correctly.

› The locking bolt is mounted.

6 Maintenance

Maintenance and inspection work must be carried out at regular intervals:

Release function of the rollers	annually
Control closing the parking cassette	annually
Inspection of the flawless parking function of the upper and lower roller carriages	annually
Smoothness of the rollers	every 2 years
Clamping of the door rails	every 3 years

6.1 Replacing the parking cassette

6.1.1 Sliding panel

1. Slide the sliding panel into the front. The single action end panel remains open.

2. Disassemble the inspection piece.

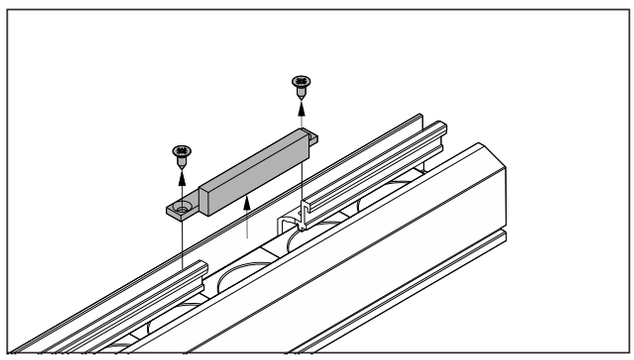


Fig. 61 Disassemble the inspection piece

3. Unscrew the parking cassette(s).

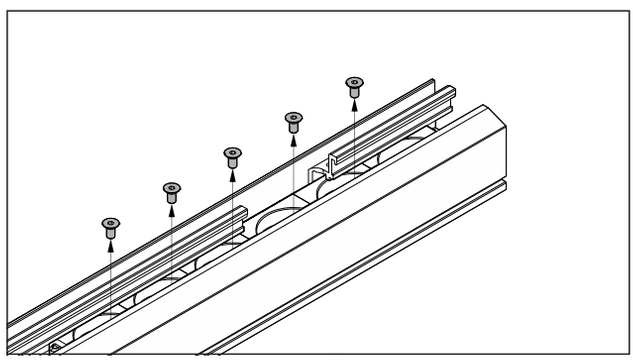


Fig. 62 Unscrew the parking cassette(s)

4. Separate the parking cassettes.

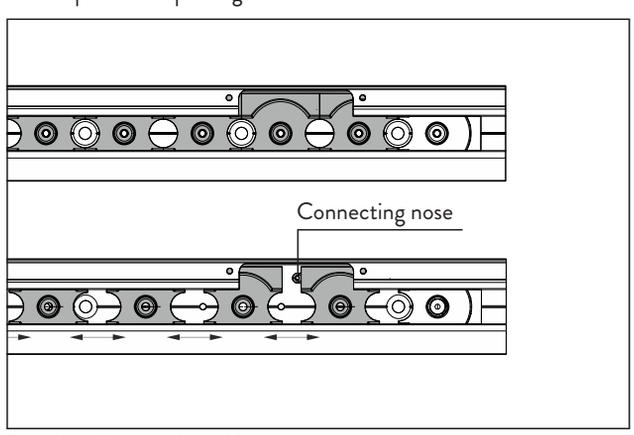


Fig. 63 Separate the parking cassettes.

5. Remove the defective cassette(s).

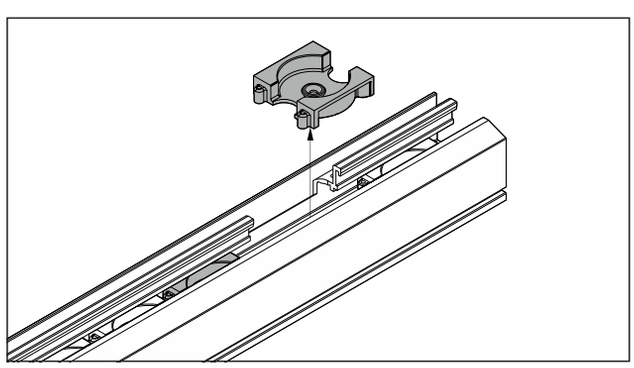


Fig. 64 Remove the defective cassette(s)

In reverse order to steps 2-5:

6. Insert the new cassette(s). In doing so watch out for the connecting nose (see Fig. 63).
7. Connect the parking cassette(s) with each other again.
8. Screw the parking cassette(s) in tight

6.1.2 Single action end panel

1. Slide the sliding panel into the front.
2. Remove the single action end panel in the reverse order to mounting (see 5.6).
3. Disassemble the inspection piece.
4. Unscrew the parking cassette(s).
5. Separate the parking cassettes.
6. Remove the defective cassette(s).

In reverse order to steps 3-6:

7. Insert the new cassette(s). In doing so watch out for the connecting nose.
8. Connect the parking cassette(s) with each other again.
9. Screw the parking cassette(s) in tight.

7 Disassembly and disposal

Disassembly is carried out in the reverse order of the mounting and must be carried out by competent personnel.

The product must be disposed of in an environmentally friendly manner. Observe the national legal regulations that apply to you.

Moving Details.

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DORMA-Glas GmbH
DORMA-Glas GmbH

Translation of the original manual