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# TP/TA EASY Safe

Mounting instructions

WN 060028 45532/14241  
2020-11

**EN**

## 1 Information about this document

### 1.1 Contents and purpose

This manual describes how to mount the TP/TA EASY Safe door rail and contains information about settings, operation, maintenance, cleaning, troubleshooting, disassembly and disposal. Before commencing any work, personnel must have carefully read through and understood these mounting instructions. Complying with all safety instructions and action steps provided in this manual is the basic prerequisite for safe working. The figures serve to provide a general understanding and may differ from the model that is actually delivered.

### 1.2 Target group

The target group of these mounting instructions is qualified personnel specially trained in glass fitting.

### 1.3 Other applicable documents

- Documentation for accessories and components used

### 1.4 Document storage

This manual and the other applicable documents are part of the product and must be kept accessible at all times during the service life of the product. If they are lost, the latest version of the mounting instructions can be downloaded from [www.dormakaba.com](http://www.dormakaba.com).

### 1.5 Abbreviations

TA	Door rail for single-action door
TP	Door rail for double-action door
DP	Pivot point
PZ	Profile cylinder

### 1.6 Symbols used

#### 1.6.1 Hazard categories



#### WARNING

This signal word indicates a possible hazardous situation which may result in death or serious injury if not averted.



#### CAUTION

This signal word indicates a situation of potential risk, which could lead to minor or slight injury if not averted.



#### ATTENTION

This signal word indicates a possible hazardous situation that could lead to damage to property or the environment if not averted.

#### 1.6.2 More symbols



#### Note

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



Step-by-step graphics



Position numbers of components

### 1.7 Customer service

Address	dormakaba Deutschland GmbH DORMA Platz 1 58256 Ennepetal Germany T: +49 2333 793-0
Website	<a href="http://www.dormakaba.com">www.dormakaba.com</a>

## 2 Safety

### 2.1 Intended use

- The product is only suitable for indoor use.
- The product may only be installed undamaged and in accordance with the requirements of the assembly location.
- The product may only be mounted by qualified personnel who correspond to the defined target group.
- Only toughened safety glass (TSG), heat-strengthened glass (HSG) or laminated safety glass (LSG) made of TSG may be installed with the product.

### 2.2 Reasonably foreseeable misuse

- The product is not suitable for installation in the vicinity of showers, saunas, swimming and salt-water bath or rooms in which chemicals (e.g. chlorine) are used.
- Single-action doors must not be slammed shut with too much force.
- Do not install glass with conchoidal fractures and/or damaged edges.

### 3 Product description

The TP/TA EASY Safe door rail can be mounted at the top and bottom of the glass door panel. Depending on the variant, the door rail can be used for double-action doors, single-action doors and side panels.

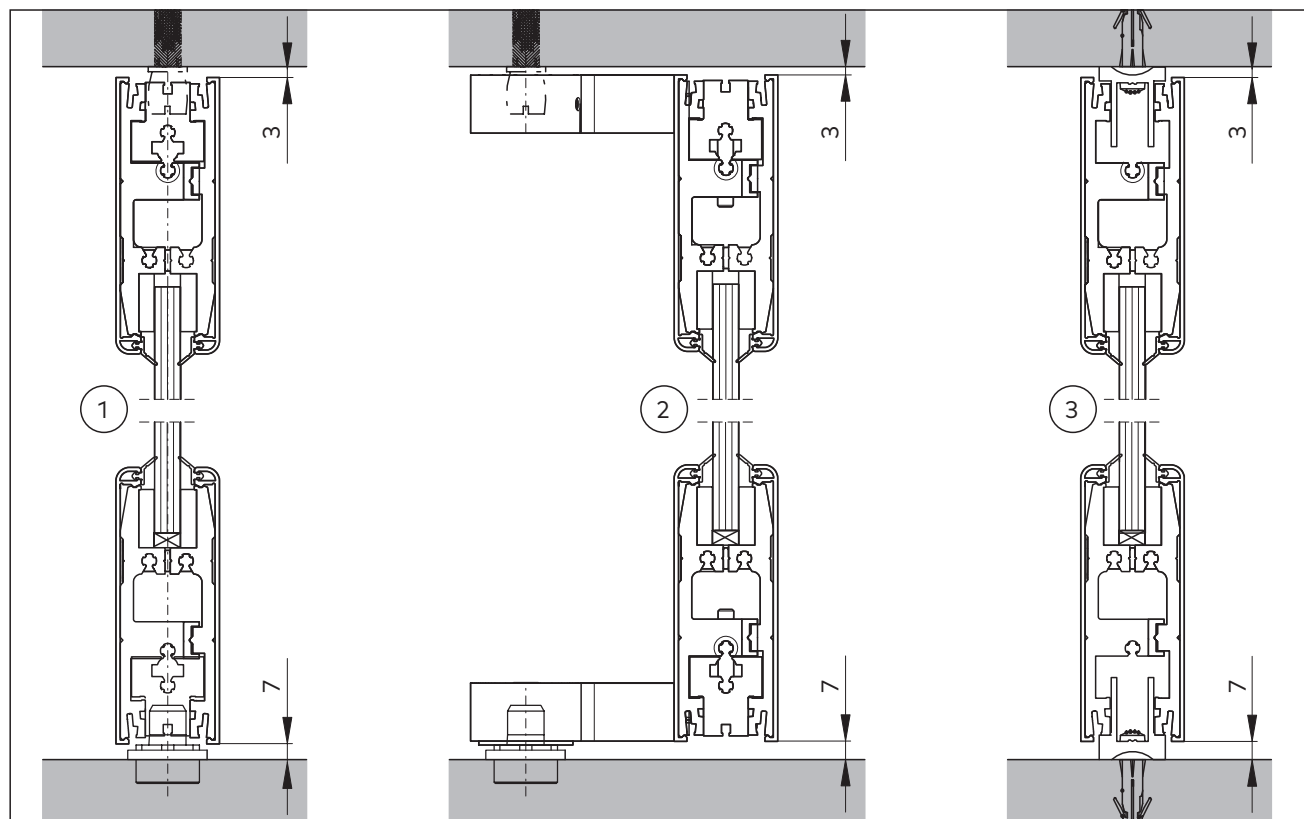


Fig. 1 Variants

- (1) Door rail for double-action doors (TP)
- (2) Door rail with door strap for single-action doors (TA)
- (3) Door rail with bottom rail for side panel

The TP/TA EASY Safe door rail can also be combined with the UNIVERSAL and MUNDUS corner fittings. The new version (MUNDUS) differs from the old version (UNIVERSAL) in terms of the gap to the wall.

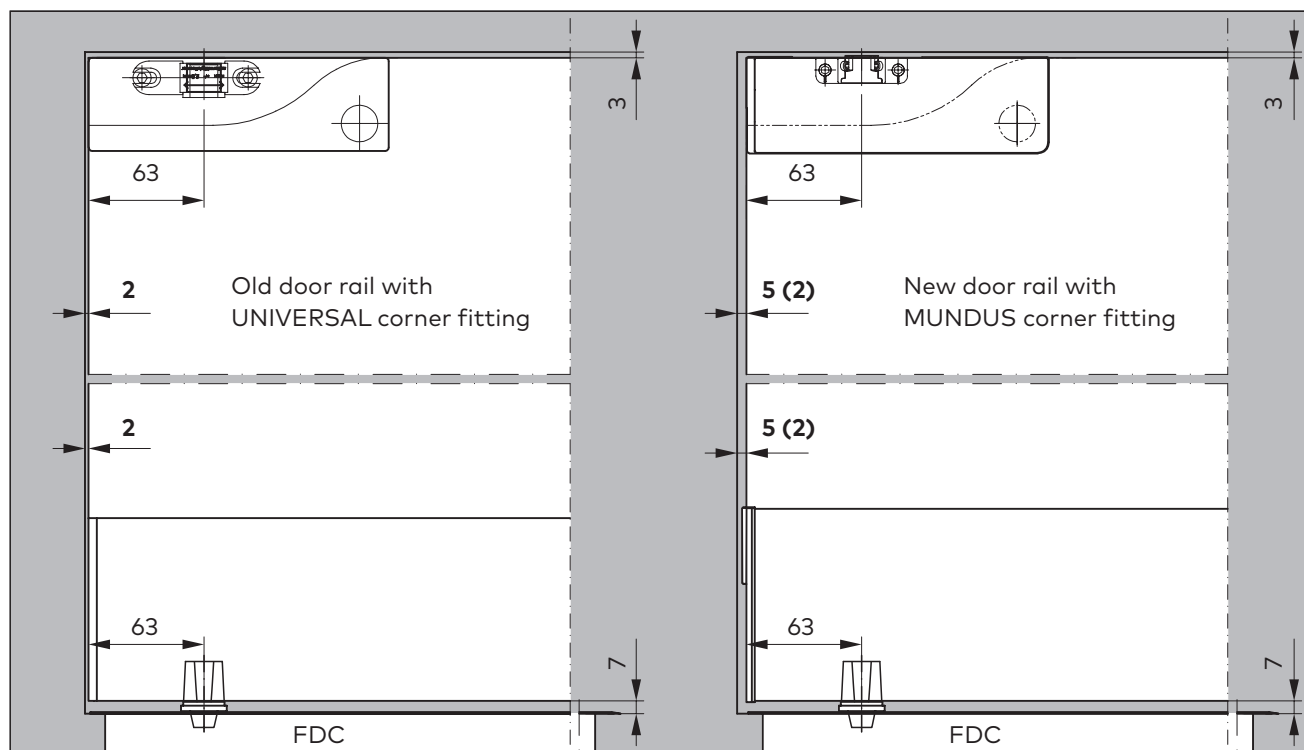


Fig. 2 Door rails combined with corner fittings

### 3.1 Technical data

#### 3.1.1 Double-action doors

	Bottom door rail standard			Bottom door rail in special version with bottom steel door strap		
<b>UNIVERSAL corner fittings</b>	110 kg	1200 mm	3000 mm	120 kg	1200 mm	3500 mm
<b>MUNDUS corner fittings</b>						
<b>MUNDUS Comfort</b>	150 kg	1200 mm	3000 mm	150 kg*	1200 mm*	3000 mm*
<b>MUNDUS Premium</b>	150 kg	1200 mm	3000 mm	200 kg 170 kg*	1300 mm 1200 mm*	3800 mm 3500 mm*
<b>UNIVERSAL corner fittings anti-pinch**</b>	100 kg	1100 mm	3000 mm			
<b>Door rail standard</b>	120 kg	1200 mm	3500 mm	200 kg***	1400 mm***	4000 mm
<b>Door rail anti-pinch</b>	150 kg	1200 mm	3500 mm	150 kg*	1200 mm*	3500 mm*

\* for high-usage doors

\*\* with 20 mm pivot point

\*\*\* only for double-action doors with top and bottom door rail

#### 3.1.2 Single-action doors

##### 3.1.2.1 Single-action door in all-glass system

	EA corner fittings and bottom door rail	Top door rail and bottom door rail
<b>Max. door height</b>	3000 mm	3500 mm
<b>Max. door width</b>	1200 mm	1200 mm
<b>Max. door weight</b>	100 kg	100 kg

##### 3.1.2.2 Single-action door in door frame – 24/26 rebate depth

	EA corner fittings and bottom door rail	Top door rail and bottom door rail
<b>Max. door height</b>	3000 mm	3500 mm
<b>Max. door width</b>	1100 mm	1100 mm
<b>Max. door weight</b>	90 kg	90 kg

##### 3.1.2.3 Single-action door in door frame – 27 mm to 40 mm rebate depth

	EA corner fittings and bottom door rail	Top door rail and bottom door rail
<b>Max. door height</b>	3000 mm	3500 mm
<b>Max. door width</b>	1000 mm	1000 mm
<b>Max. door weight</b>	80 kg	80 kg

## 3.2 Variants

- 1 and 2-panel
- in all-glass system, without rebate
- in door frame with/without rebate
- with free glass edge

### 3.2.1 Variants

- Door rail for double-action doors
- Door rail for single-action doors

#### 3.2.1.1 Door rail for single-action doors

Single-action doors always have a stop:

- in the form of a door frame
- in the form of a suitable end cover

## 3.3 Components

Depending on the order, the top and bottom pivot points are pre-mounted in the door rail.

### 3.3.1 Top pivot points

- Top frame center ES
- Top insert ES
- Top insert ES for RTS frame door closer
- Top insert, two part ES, special version

### 3.3.2 Bottom pivot points

- Floor bearing ES for damp environments without floor inlet with insert for double-action door rail
- Bottom frame center ES for floor bearing
- Bottom steel door strap ES with spindle for FDC
- Bottom steel door strap ES, suitable for flat tapered spindle for FDC and floor bearing
- Bottom insert for round or flat tapered spindle

### 3.3.3 250 mm lock module

- Side-locking deadlock, PZ
- Floor-locking deadlock, PZ and electric strike release
- Latch lock, PZ
- Electric strike release
- Strike box
- Latch lock and floor-locking deadlock, PZ
- Floor-locking deadlock, PZ with micro switch

## 3.4 Accessories

Mount the accessories in accordance with the enclosed manuals

Ceiling connection	Art.:
PT 25 pivot with plug	01.115
PT 24 pivot with fixing plate 6 mm	01.116
PT 21 frame portion top center	01.117
PT 21 with cover	01.118
PT 24 pivot with fixing plate 3 mm	01.123
Top pivot bearing	01.129
Top pivot bearing	01.130
Top pivot bearing steel fixing plate	01.131
Top pivot bearing aluminum fixing plate	01.132
Floor connection	Art.:
Floor bearing	01.106
FDC 84 (80) -75V	
Floor bearing with flat-tapered spindle	04.602 04.603

### 3.4.1 Floor door closer (FDC)

A recess which is covered with a stainless steel cover plate must be provided in the floor for the FDC. The FDC can only be combined with the bottom steel door strap ES.

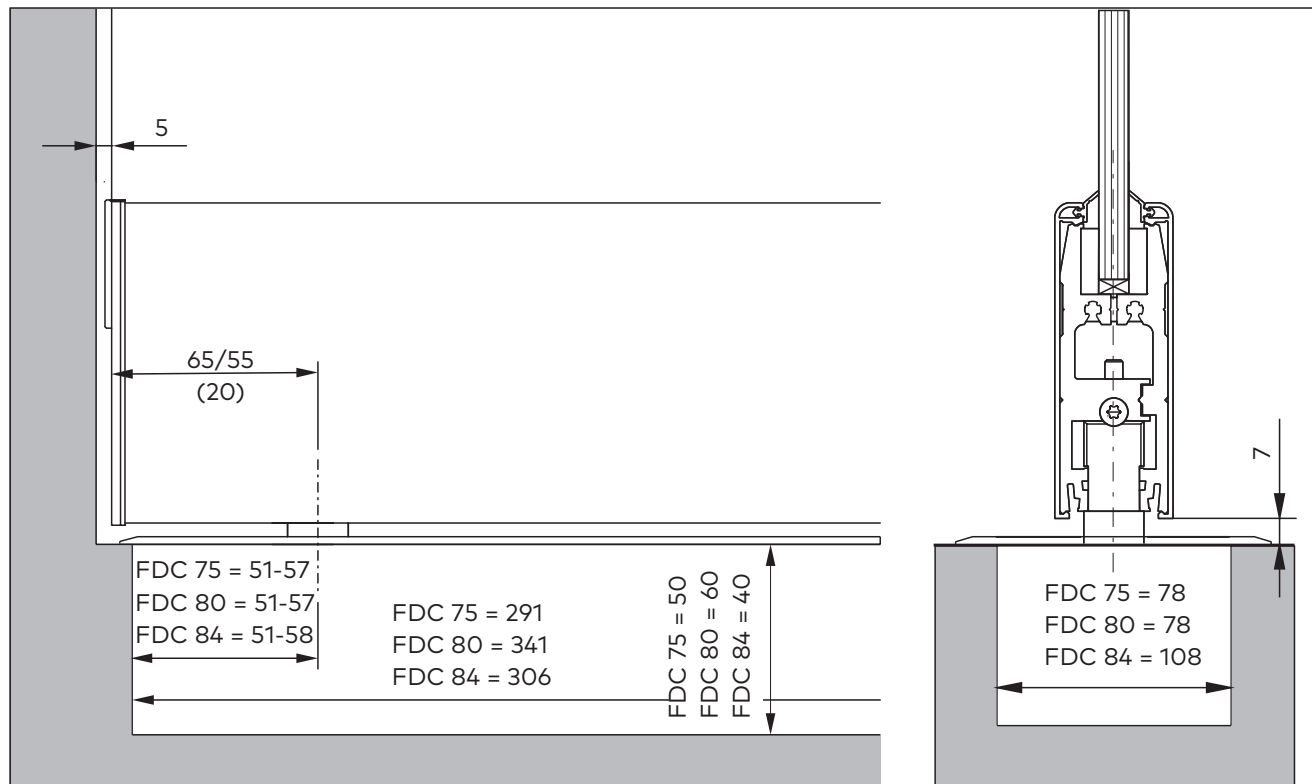


Fig. 3 Dimensions of the FDC recess

1. Remove the spindle from the FDC.

### 3.4.2 Floor bearing (O1.106)

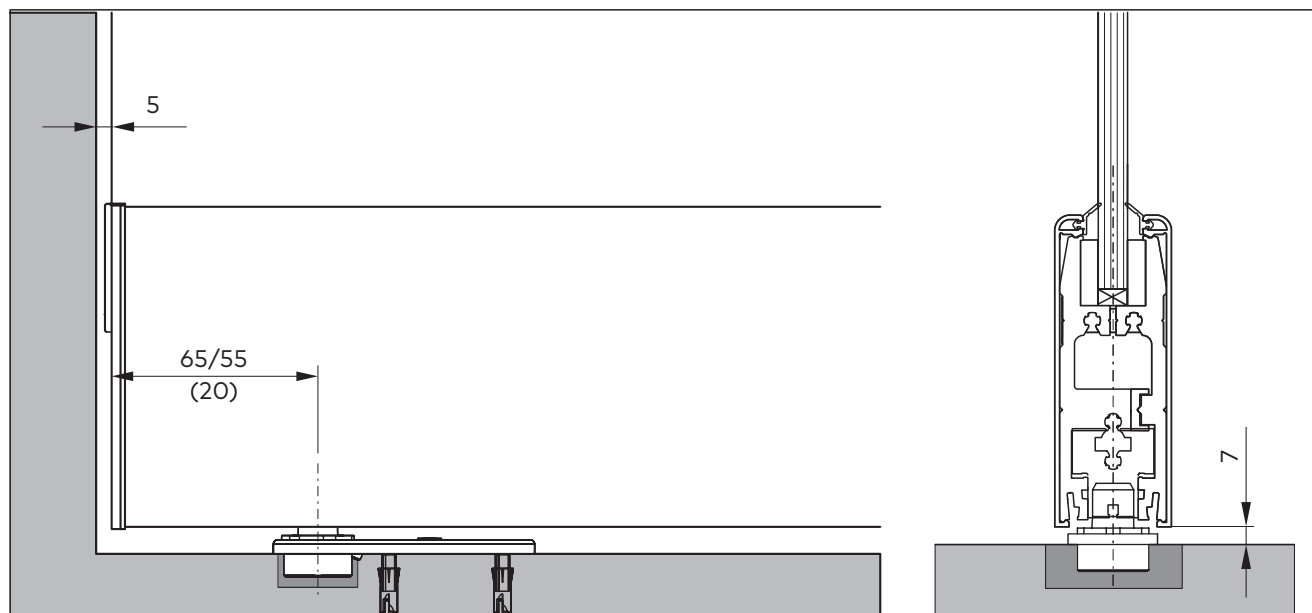


Fig. 4 Dimensions with floor bearing

## 4 Mounting



### CAUTION

#### Risk of injury from sharp edges.

Incorrect handling during mounting can cause the glass to break, resulting in injury.

- Read and follow the safety instructions in this manual carefully.
- Wear personal protective equipment.

### 4.1 Cleaning the glass surfaces



### CAUTION

#### Risk of injury from broken glass

Incorrect cleaning of the glass surfaces can prevent the door hinges from gripping the glass surface, causing the glass to break.

- Clean glass surfaces around the clamping plates carefully.
- Use commercial glass cleaner.
- Do not use thinners.

1. Clean glass surfaces around the clamping plates carefully.
2. Wipe glass surfaces dry.

### 4.2 Mounting the door rail



### CAUTION

#### Risk of injury from broken glass during mounting.

Incorrect handling during mounting can cause the glass to break, resulting in injury.

- Secure the installation site.
- 2 persons required to carry out installation.
- Wear protective clothing.
- Use glass suction cups.
- Place the glass door panel on wooden blocks and ensure that it cannot fall.



### CAUTION

#### Risk of crushing during mounting of the glass door panel.

During mounting, there is a risk of crushing injuries to the fingers by the glass edges.

- Wear protective gloves.
- Use glass suction cups.



### Note

When a lock module is configured, the door rail has a pin, and the door rail and lock module are pinned.

1. Slide the bottom door rail onto the glass with a distance of 5 mm. When a lock module is configured, the pin must point toward the glass door panel.

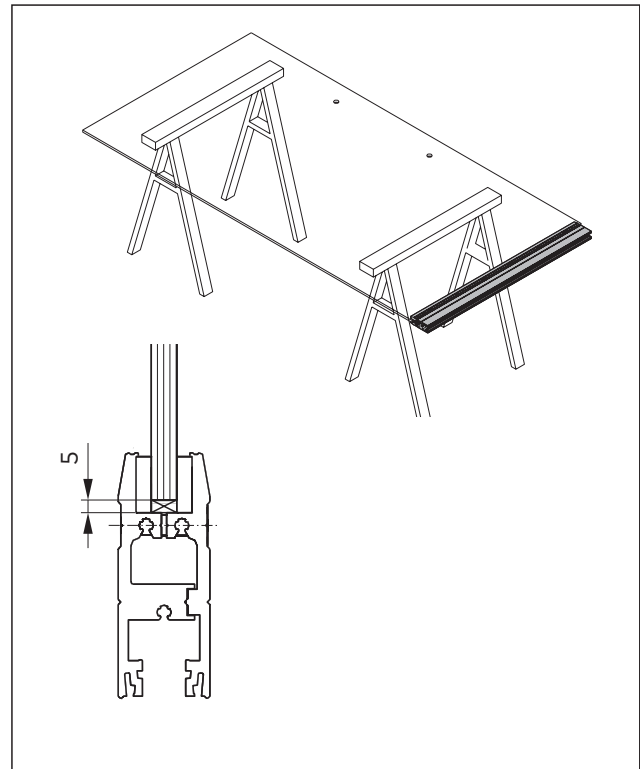


Fig. 5 Sliding the bottom door rail on

2. Align the bottom door rail with a distance of 4.5 mm.

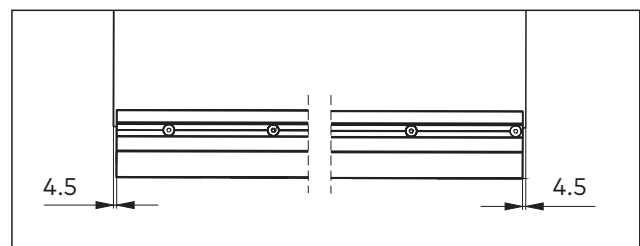


Fig. 6 Aligning the bottom door rail

3. In the case of a free glass edge, align the bottom door rail with a distance of 15 mm.

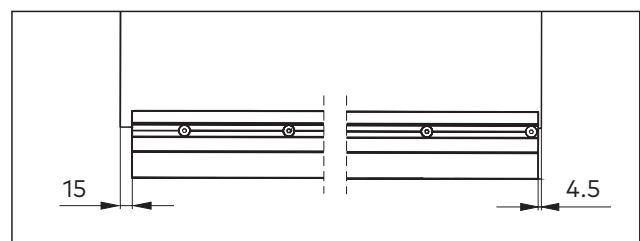


Fig. 7 Aligning the door rail in the case of free glass edge

4. Tighten all screws on the front and back so that the bottom door rail clamps firmly to the glass.

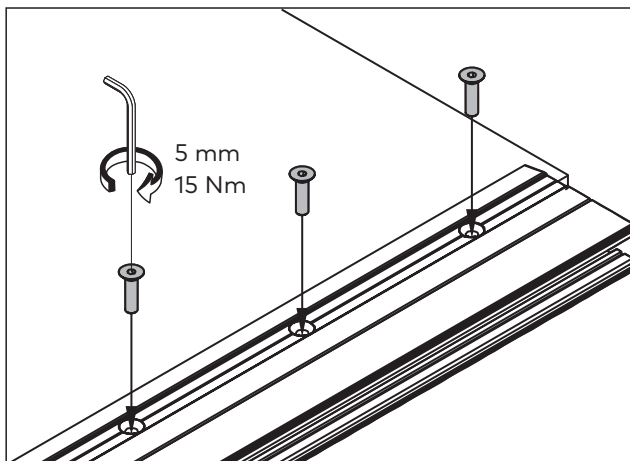


Fig. 8 Tightening the door rail screws

### 4.3 Mounting the lock module



#### Note

Depending on the configuration, the lock module can be mounted on the right or left. The figure shows it mounted on the left.

1. Slide the lock module onto the glass.
2. Pin the lock module to the door rail.

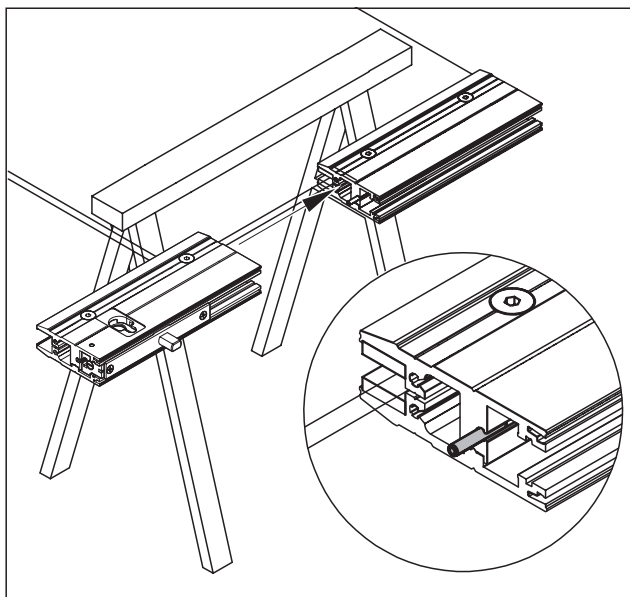


Fig. 9 Pinning the lock module

3. Tighten the screws so that the lock module clamps firmly to the glass, tightening torque of 15 Nm.

4. Attach the lower roses to the lock module (Fig. 10/1) and hook them in downwards (Fig. 10/2).

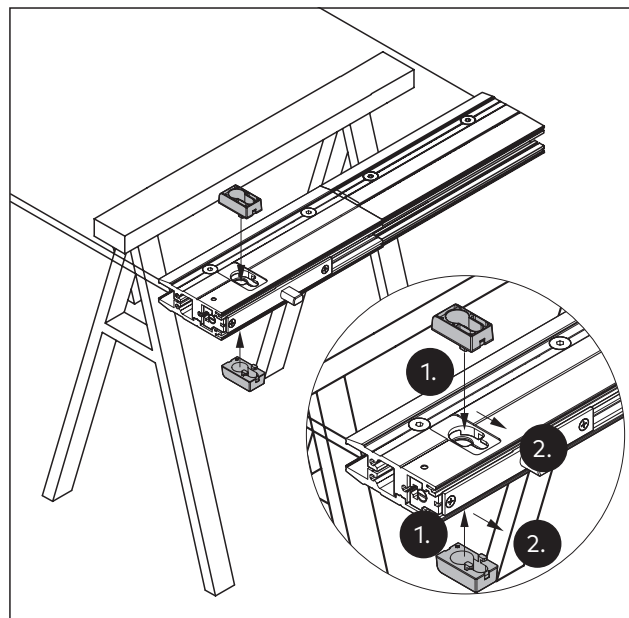


Fig. 10 Attaching and hooking in the lower roses

### 4.3.1 Mounting the latch lock and floor-locking deadlock



#### Note

To mount the locking cylinder for the deadlock, the latch lock must be removed.

1. Loosen the screws and sleeves so the latch lock can be removed.

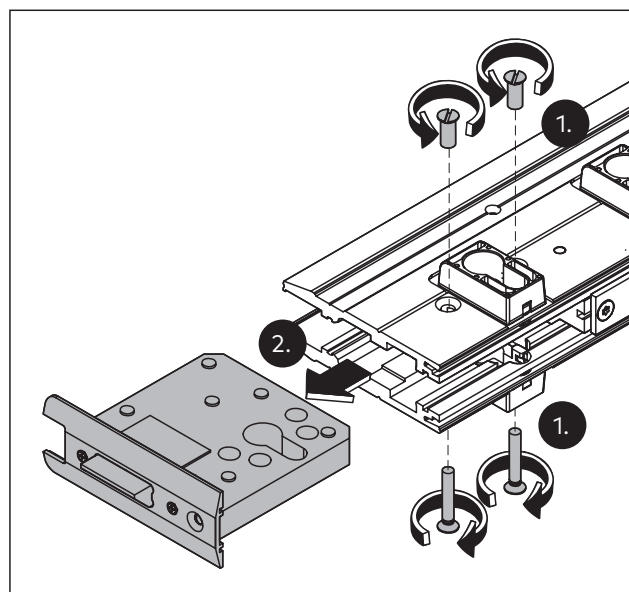


Fig. 11 Loosening the screws and sleeves

2. Insert the locking cylinder. In doing so, ensure that the cylinder driver fits in the opening (Fig. 12/1).



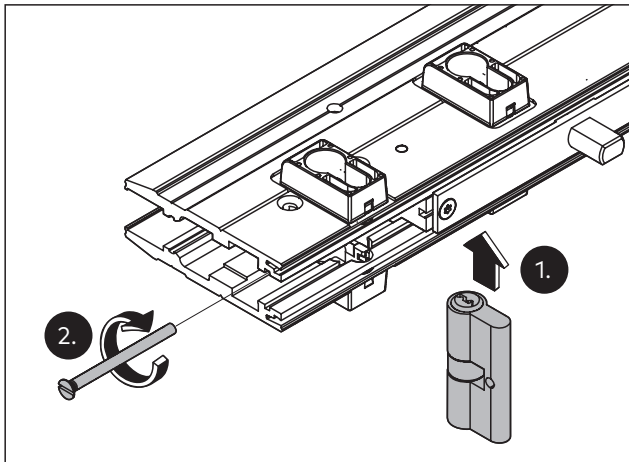


Fig. 12 Inserting the locking cylinder and screwing into place

3. Screw the locking cylinder with the screw from the front end (Fig. 12/2).
4. Insert the latch lock in the door rail (Fig. 13/1) and secure with the screws and sleeves (Fig. 13/2).

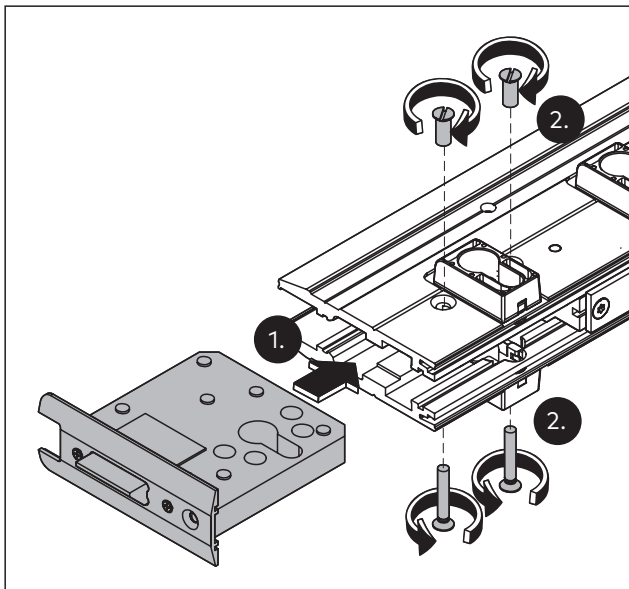


Fig. 13 Re-mounting the latch lock

5. Insert the locking cylinder. In doing so, ensure that the cylinder driver fits in the opening (Fig. 14/1).

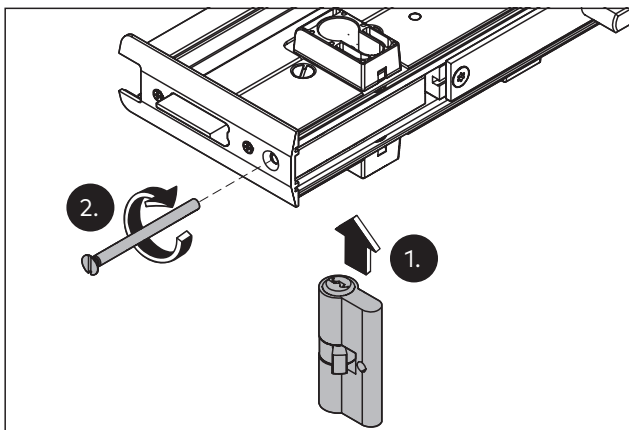


Fig. 14 Inserting the locking cylinder and screwing into place

6. Screw the locking cylinder with the screw from the front end (Fig. 14/2).

#### 4.4 Mounting the door strap for single-action doors (TA)



#### Note

The inserts for securing the door straps are pre-mounted in the door rail.

1. Place the door strap with the pins on the door rail (Fig. 15/1 and Fig. 16/1).

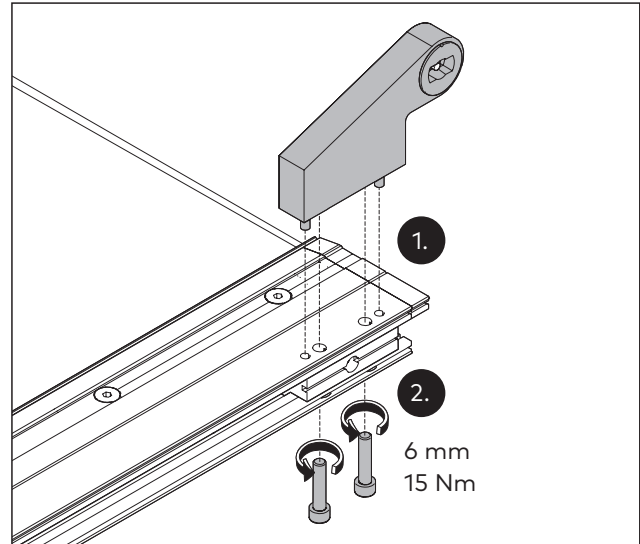


Fig. 15 Mounting the door strap on the bottom door rail

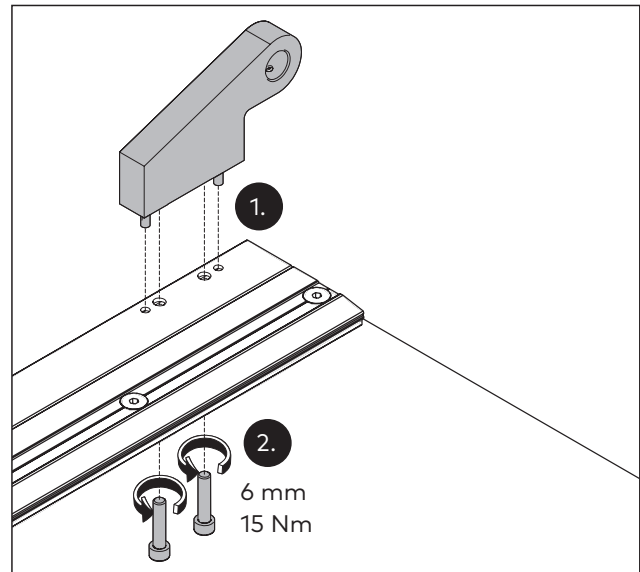


Fig. 16 Mounting the door strap on the top door rail

2. Secure the door strap from the other side with the 2 screws through the insert in the door rail (Fig. 15/2 and Fig. 16/2). Note the tightening torque.

### 4.5 Mounting the panel



**Note**

If a PT 21, PT 24 or PT 25 is mounted on the ceiling, an insert with bushing or a two-part insert is pre-mounted in the top door rail.

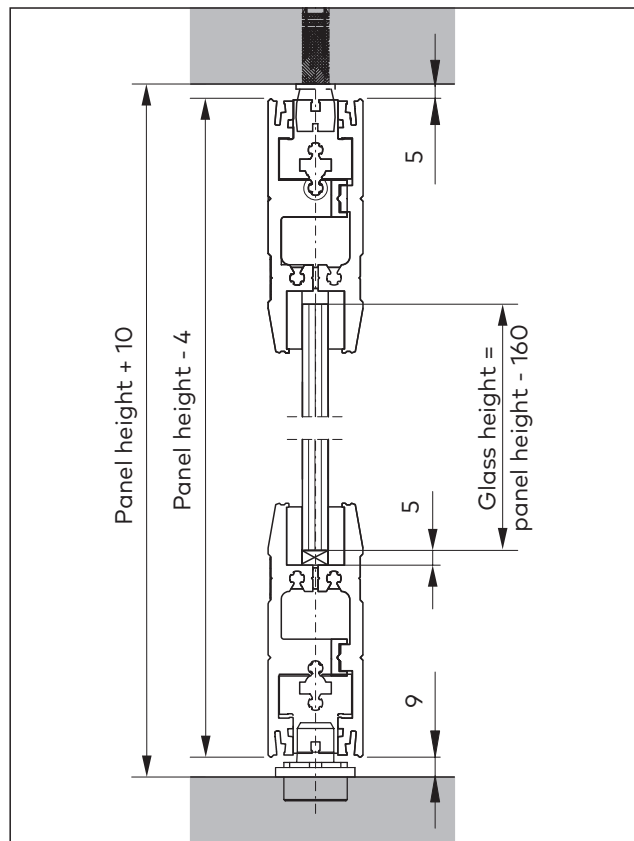


Fig. 17 Panel clearance without cover profile

#### 4.5.1 Mounting the panel with a top door rail with bushing in insert and PT 21 on the ceiling

1. Slide the top door rail onto the glass.

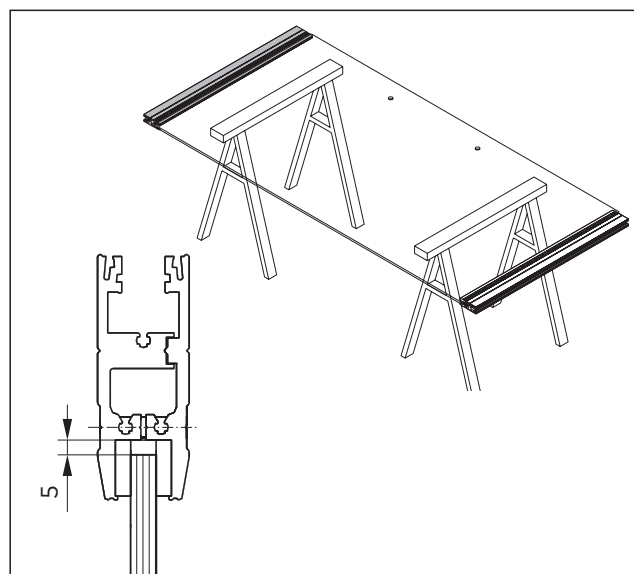


Fig. 18 Sliding the top door rail on

2. Align the top door rail with a distance of 4.5 mm.

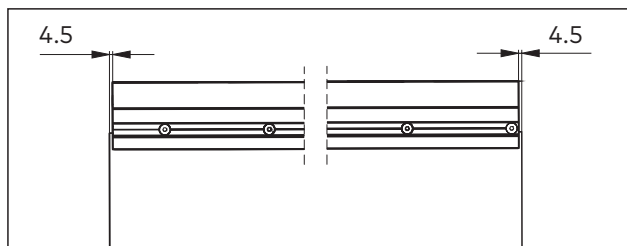


Fig. 19 Aligning the top door rail

3. Tighten all screws on the front and back so that the top door rail clamps firmly to the glass.

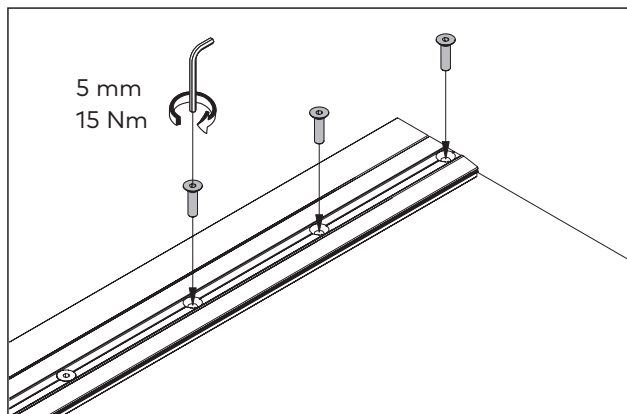


Fig. 20 Tightening the door rail screws

4. 2 people are needed to place the panel turned 90° down on the floor bearing/the FDC.
5. Swing the panel in and position below the PT 21.
6. Turn the PT 21 pivot in the insert of the top door rail.

#### 4.5.2 Mounting the panel with a top door rail with bushing in insert and PT 24 or PT 25 on the ceiling



**Note**

Mounting must only be carried out by 2 people.

1. Unscrew the top door rail. The insert clamps in the half with the bar.
2. Place and mount the panel at the bottom on the floor bearing/the FDC.
3. In doing so, hold the glass pane in a slightly inclined position and secure.
4. Place the 1st half of the top door rail with the insert on the pivot on the ceiling.
5. Swivel the glass pane on the half of the door rail and hold in position.
6. Screw the 2nd half of the door rail on so that the door rail can still be moved slightly.
7. Align the top door rail with a distance of 4.5 mm (Fig. 19).
8. Tighten the screws so that the top door rail clamps firmly on the glass (Fig. 20).

### 4.5.3 Mounting the panel with a top door rail with two-part insert for RTS

1. Slide the top door rail onto the glass. The screw heads must be on the inside.
2. Align the top door rail with a distance of 4.5 mm (Fig. 19).
3. Tighten the screws so that the top door rail clamps firmly on the glass (Fig. 20).
4. Place the panel at the bottom on the floor bearing and swing in.
5. In doing so, insert the pin in the top insert in the RTS spindle.

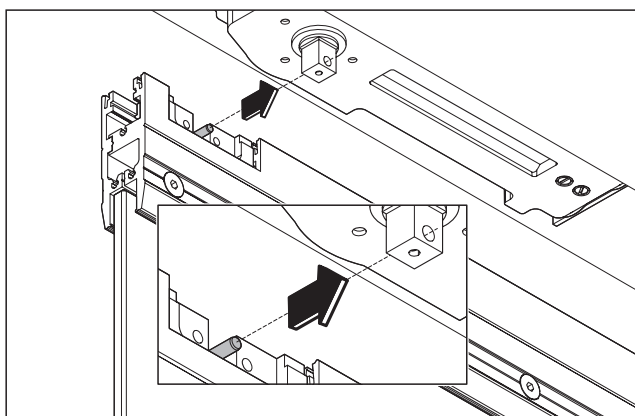


Fig. 21 Inserting the pin

6. Secure the panel in the position with the screw-on plate on the RTS. Tighten the screws first from one side, then from the other.

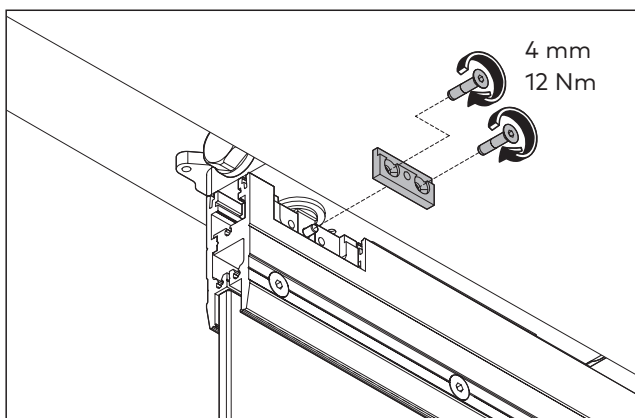


Fig. 22 Securing the screw-on plate

### 4.5.4 Mounting the panel with a top door rail with two-part insert for PT 21, PT 24 or PT 25

1. Slide the top door rail onto the glass. The screw heads must be on the inside.
2. Align the top door rail with a distance of 4.5 mm (Fig. 19).
3. Tighten the screws so that the top door rail clamps firmly on the glass (Fig. 20).
4. Place the panel at the bottom on the floor bearing and swing in.
5. Attach the insert to the pivot (PT 21, PT 24 or PT 25).

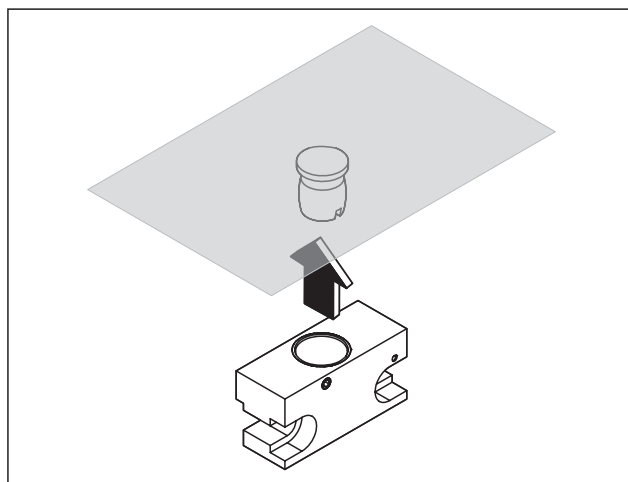


Fig. 23 Attaching the insert

6. Place the panel at the bottom on the floor bearing and swing in.

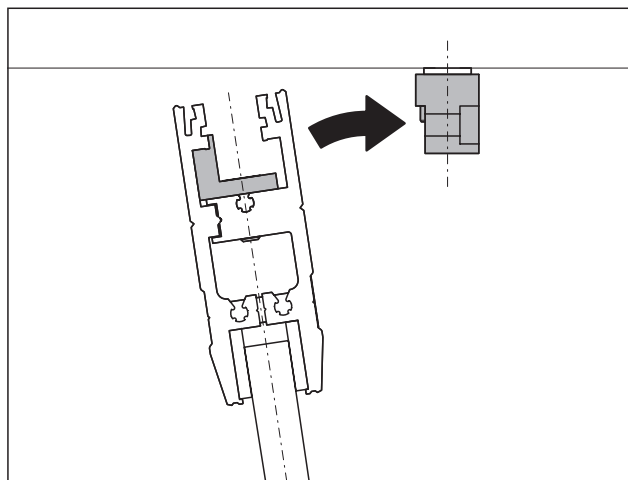


Fig. 24 Swinging the panel in



**Note**

The insert's screw points depend on the pivot point (Fig. 25 or Fig. 26).

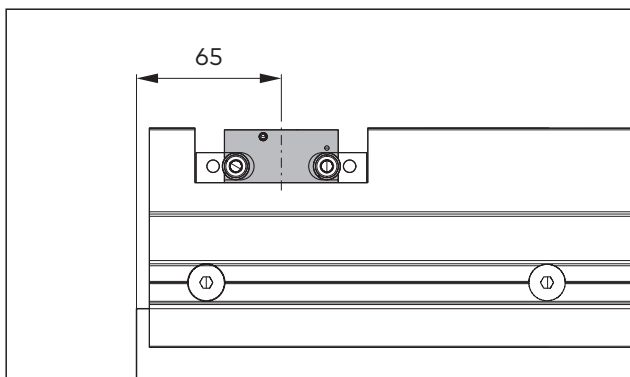


Fig. 25 65 mm pivot point

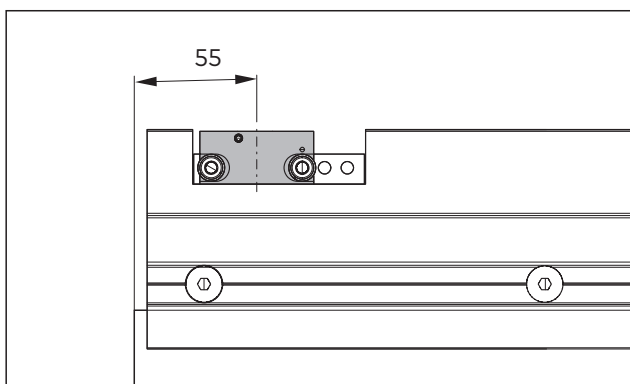


Fig. 26 55 mm pivot point

7. Secure the insert in the door rail according to the pivot point.

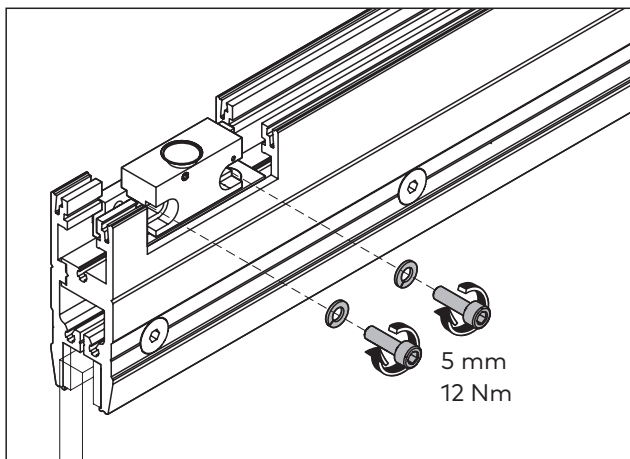


Fig. 27 Securing the insert

8. Screw in the grub screw for fall protection all the way.

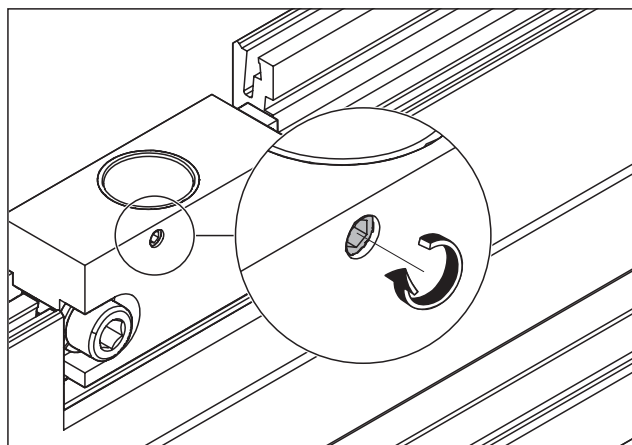


Fig. 28 Screwing the grub screw in

#### 4.5.5 Mounting the panel with a top door rail with top pivot bearing



**Note**

Mounting must only be carried out by 2 people.

1. Unscrew the top door rail. The insert clamps in the half with the bar.
2. Place and mount the panel at the bottom on the floor bearing/the FDC.
3. In doing so, hold the glass pane in a slightly inclined position and secure.
4. Insert the 1st half of the top door rail with the pivot in the bushing in the ceiling.
5. Swivel the glass pane on the half of the door rail and hold in position.
6. Screw the 2nd half of the door rail on so that the door rail can still be moved slightly.
7. Align the top door rail with a distance of 4.5 mm (Fig. 19).
8. Tighten the screws so that the top door rail clamps firmly on the glass (Fig. 20).

#### 4.6 Aligning the panel

1. Note the panel clearance (Fig. 17).
2. Unscrew the screws for the top door rail.
3. Align the top door rail so that the clearances match and the door rail has an even gap to the ceiling.
4. Tighten all screws on the front and back with 15 Nm so that the top door rail clamps firmly to the glass again.

### 4.7 Gluing the top door rail to an LSG glass panel (optional)

The clamping of the top door rail is particularly important because of the supporting function. If vibrations are expected on the item, the glass panel should also be glued in the top door rail area in addition to the clamping.

The chambers in the gasket and the drill holes in the door rail are already present. They are on the right and left-hand on the face on the inside of the panel.

#### Requirements

- The top door rail is mounted on the glass panel.
- The glass panel is mounted.

1. Inject the adhesive through the fill hole.

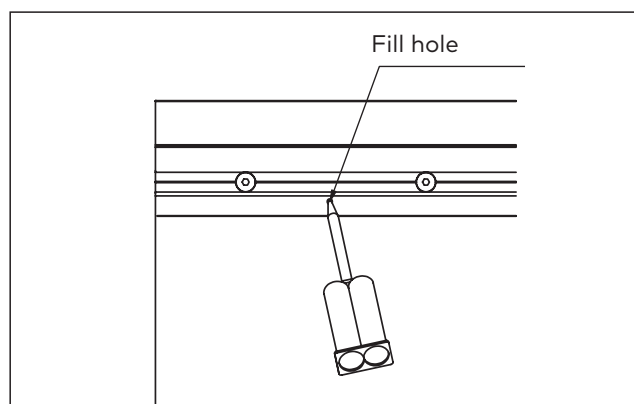


Fig. 29 Injecting the adhesive

2. Stop the injection as soon as the adhesive emerges from the outlet channel. The adhesive chamber is completely full.

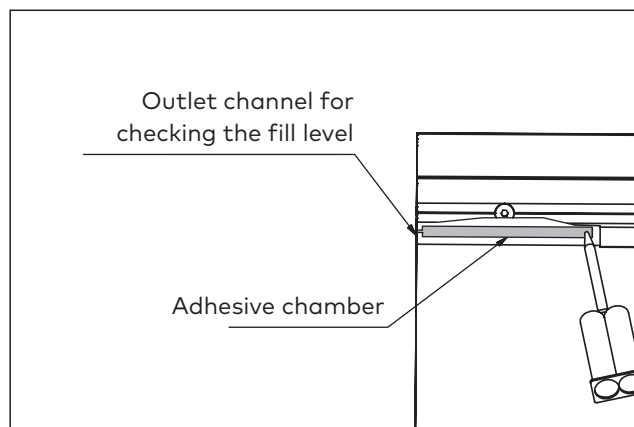


Fig. 30 Completely fill the adhesive chamber

3. Leave the adhesive to cure. The curing time is 15 minutes at a room temperature of approx. 23°C.
4. After 15 minutes, carefully remove excess adhesive that has leaked out from the side.

5. After a further 45 minutes, the door can be carefully used.



#### Note

- The adhesive fully cures after 24 hours and the unit can then be used normally.
- The 24-hour period starts 1 hour after injecting the adhesive.
- Do not expose the door to any sudden loads until the 24-hour period has expired.

### 4.8 Mounting the side panel



#### Note

The fixing materials are not included in delivery. The fixing materials must be suitable for the fabric of the building.

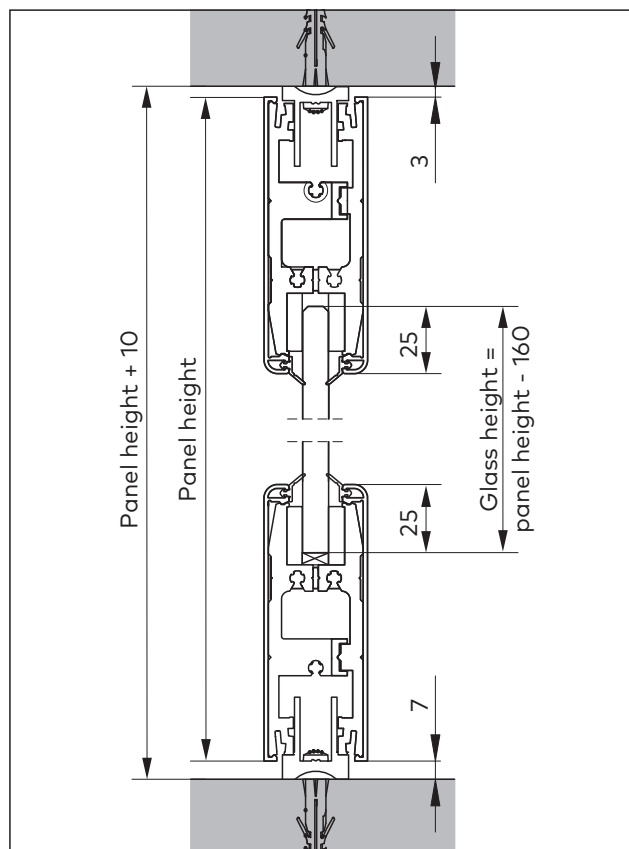


Fig. 31 Clearances for the side panel

1. If necessary, shorten the bottom rail to the required length.



**Note**

65/55 mm DP = panel width - 4.5 mm

20 mm DP = panel width - 18 mm

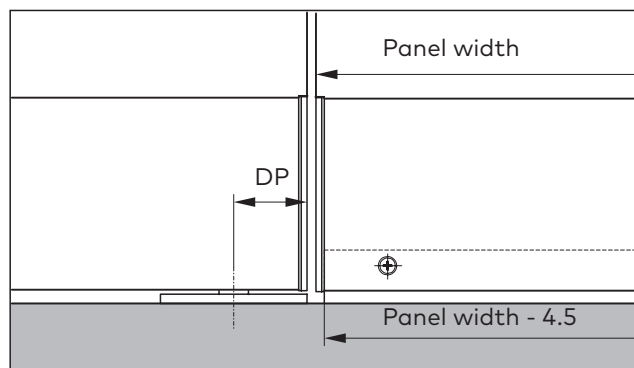


Fig. 32 65/55 mm DP

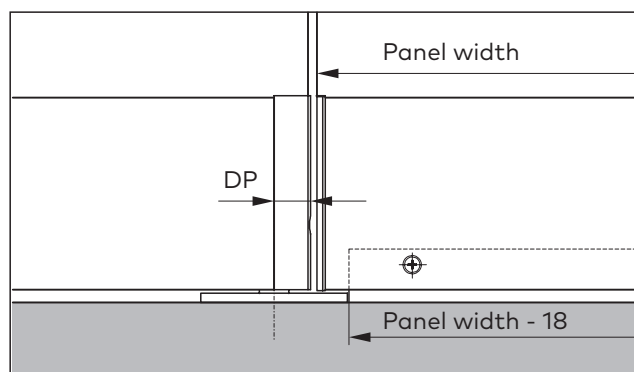


Fig. 33 20 mm DP

2. Align the bottom rail according to the unit drawing on the floor and on the ceiling.
3. Mark the drill holes and drill the holes.
4. Use suitable screws and dowels to secure the bottom rail.

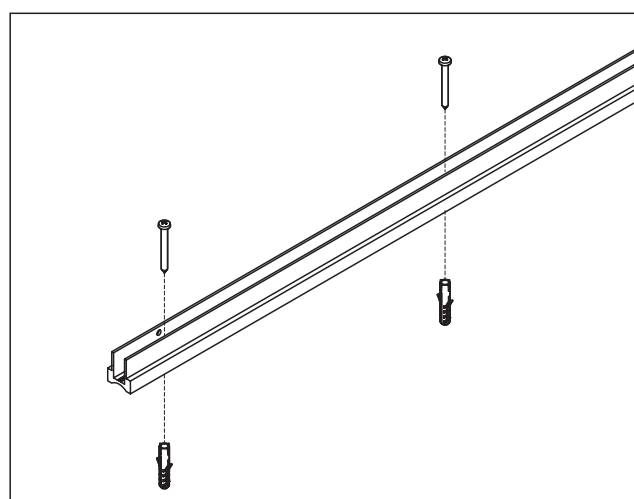


Fig. 34 Mounting the bottom rail

5. Laterally slide the side panel onto the bottom rail at the top and bottom.
6. Align the side panel with a distance of 5 mm to the wall.



**Note**

The screws for securing the side panel are not included.

The screw heads must end flush with the door rail.

7. Drill and screw the door rail and the bottom rail at the bottom on the left and right.

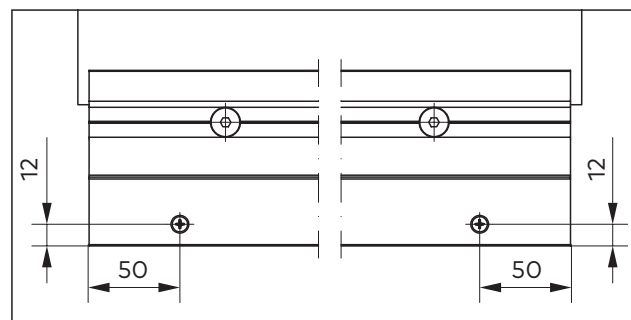


Fig. 35 Screwing the door rail

4.9 Aligning the side panel

See Chapter 4.6

4.10 Mounting the cover profiles



**Note**

The recesses for the door strap or the lock module, for example, are already provided in the cover profiles.

1. To ensure the cover profile fits firmly, bend the clip cam at 3-4 points along the cover profile's length if necessary.

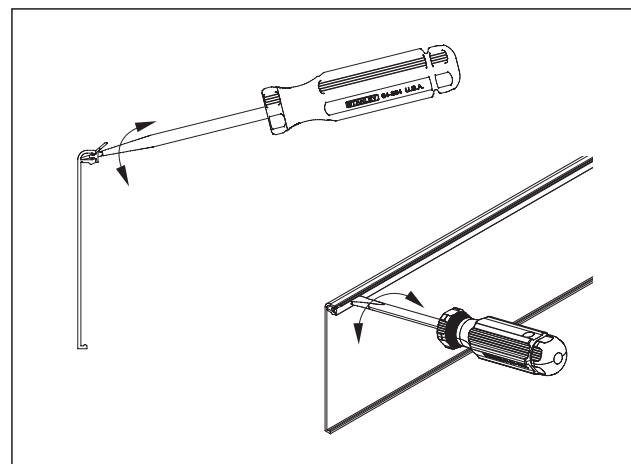


Fig. 36 Bending the clips cam

2. Insert a slotted screwdriver between the rubber seal and the cover profile and turn it.
  - ▶ The clip cam is bent upwards.
3. Insert the rubber seal in the cover profile across the entire length.

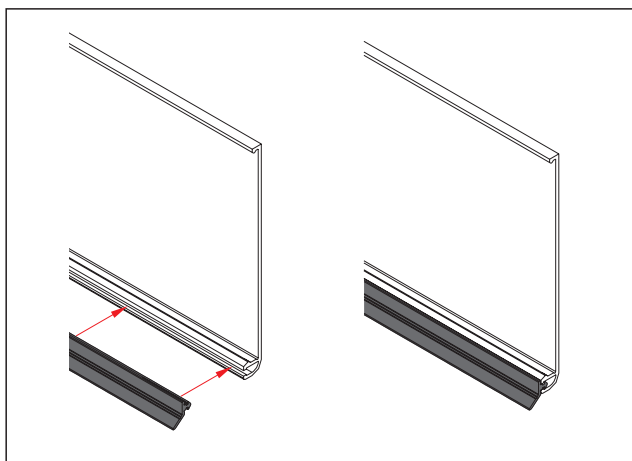


Fig. 37 Inserting the rubber seal

4. Place the cover profile at the top on the door rail and carefully clip it onto the door rail with a gasket and a hammer.

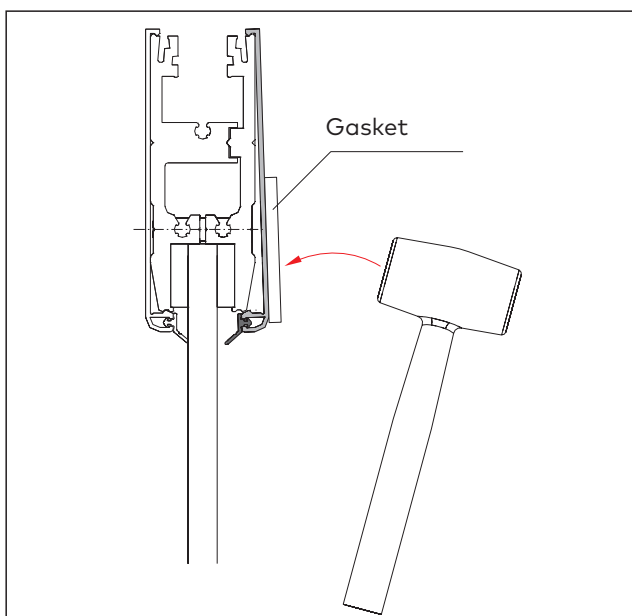


Fig. 38 Clipping on the cover profile

#### 4.11 Finalizing the lock module

1. Insert the locking cylinder. In doing so, ensure that the cylinder driver fits in the opening (Fig. 39/1).

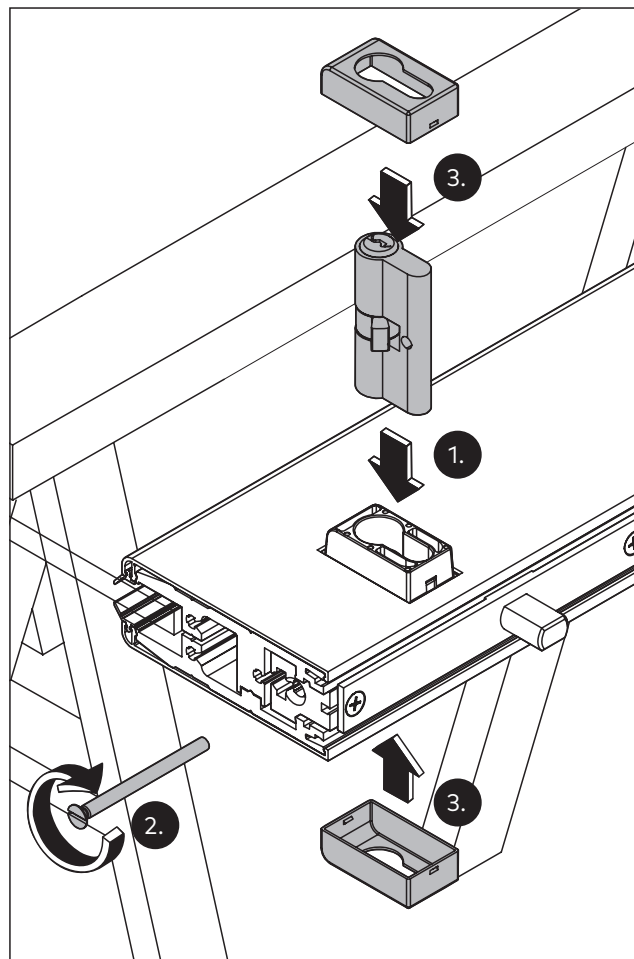


Fig. 39 Finalizing the lock module

2. Screw the locking cylinder with the screw from the front end (Fig. 39/2).
3. Press the end caps onto the roses (Fig. 39/3).

## 4.12 Mounting the end covers

### 4.12.1 65 mm and 55 mm pivot point



**Note**

If the new door rail is combined with UNIVERSAL corner fittings, the black plastic cap of the end cover must be left out, so that the gap of 2 mm can be achieved.

1. Attach the black plastic cap to the end cover (Fig. 40/1).

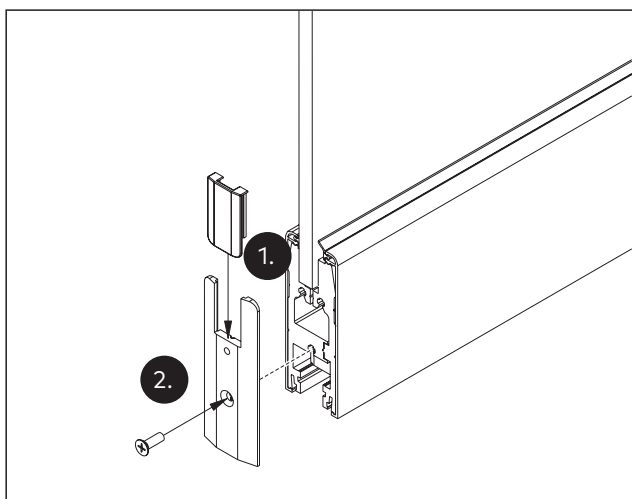


Fig. 40 Mounting the end cover

2. Use the screw to secure the entire end cover to the door rail (Fig. 40/2).

### 4.12.2 20 mm pivot point



**Note**

In the case of a 20 mm pivot point, the large glass bite is covered by the semi-circular end cover. The end cover is resting on the glass.

1. Use the screw to secure the end cover to the door rail. The end cover is resting on the glass.

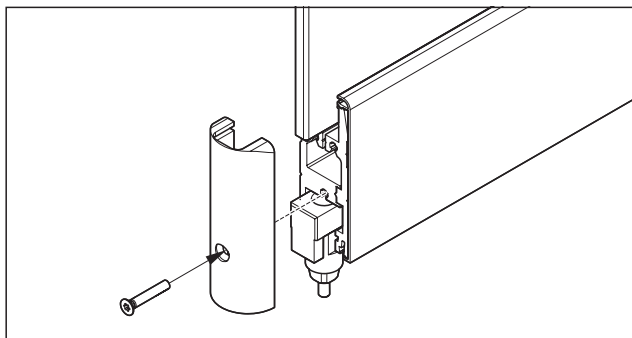


Fig. 41 Mounting the semi-circular end cover

2. If the end cover is not resting on the glass, then if necessary align the door rail with the end cover.

### 4.12.3 Free glass edge



**Note**

In the case of a free glass edge, the large glass bite of 15 mm is covered with an adapter piece and an angled end cover. The end cover is resting on the glass.

1. Check the glass bite (Fig. 42/1) and re-adjust if necessary.

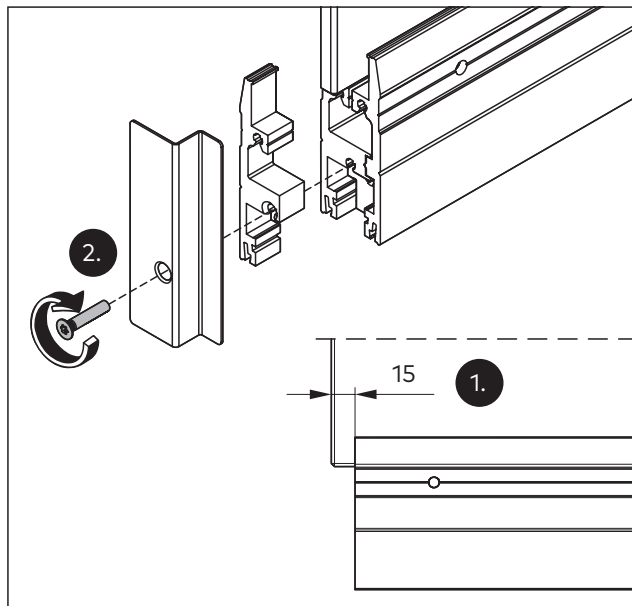


Fig. 42 Mounting the adapter piece and end cover

2. Use the screw to screw the adapter piece and the angled end cover on the door rail (Fig. 42/2).



### 4.13 Mounting accessories

#### 4.13.1 Mounting the strike plate bushing

1. Drill the hole of diameter 25 mm to at least 15 mm deep.

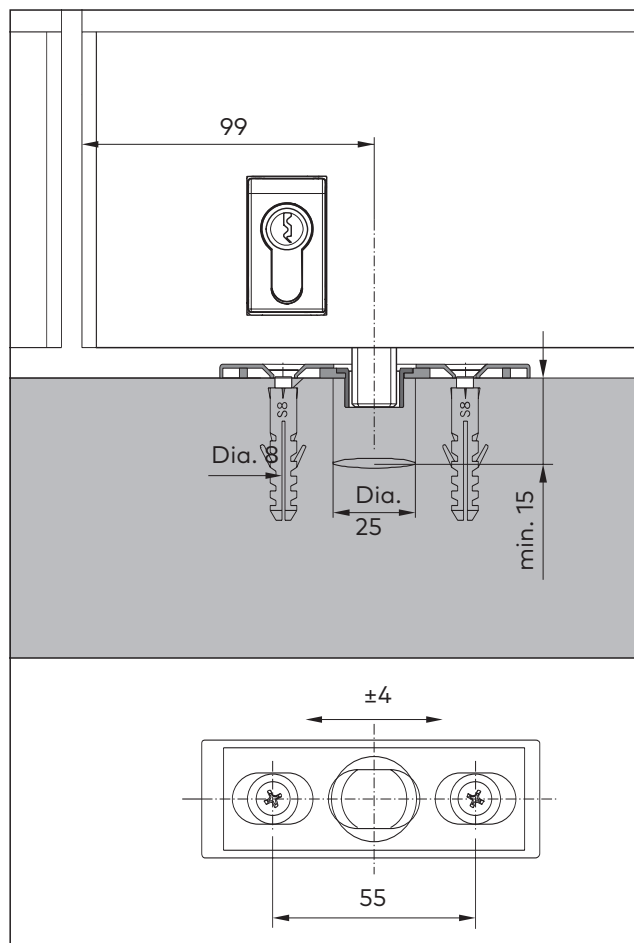


Fig. 43 Mounting the strike plate bushing

2. Drill holes of dia. 8 mm in diameter for the dowels.
3. Secure the strike plate bushing with suitable screws and dowels.

#### 4.13.2 Mounting the eccentric bushing

Adjustable eccentric bushings are used as the standard version with a plastic inner sleeve. Optionally, an adjustable eccentric bushing is available where the plastic insert is glued into the floor (Art.: 84027700099).

1. Drill drill holes of dia. 8 mm for the dowels.

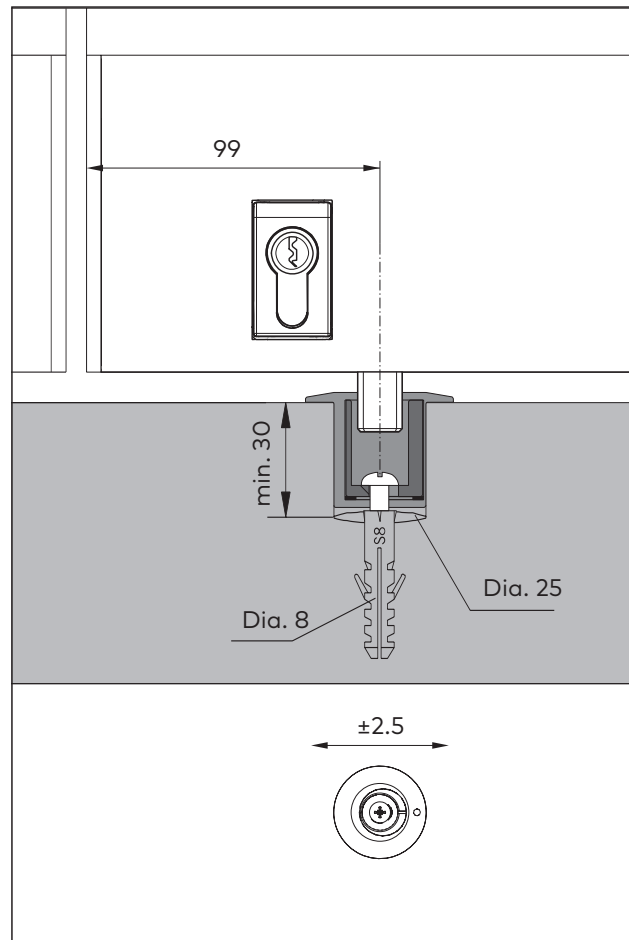


Fig. 44 Mounting the eccentric bushing

2. Centrally to that, drill the hole of diameter 25 mm to at least 30 mm deep.
3. Secure the eccentric bushing with a suitable screw and suitable dowel.

## 5 Maintenance

We recommend that the fittings' function be checked by specialists every 500 000 movements.

- Check the unit regularly for proper positioning, smooth running and correct adjustment.
- High-usage door units in particular require inspection by specialized companies or installation firms.
- Replace damaged glass elements immediately.

## 6 Cleaning

Clean the surfaces of the fittings according to their type.

- Only use suitable non-abrasive cleaning substances for metallic surfaces (anodized finishes, stainless steel).
- Only use suitable, solvent-free cleaning substances for coated surfaces (powdered, painted, etc).

Keep all strike plate bushings and eccentric bushings in the floor for the lock module clean and free of dirt.

## 7 Troubleshooting

If damage or impaired function occurs to the unit, e.g. door catching on the floor, conchoidal fractures of glass, the unit should be checked by qualified personnel and any faulty components replaced.

## 8 Disassembly and disposal



### ATTENTION

#### **Danger to the environment through improper disposal!**

Improper disposal can present a hazard to the environment.

- When in doubt, gather information about environmentally friendly disposal from the local community authorities or special disposal companies.

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



The product must be disposed of in an environmentally friendly manner.

Electrotechnical parts and batteries must not be disposed of as domestic waste. Dispose of electrotechnical parts and batteries in the designated acceptance and collection points. Refer to the corresponding statutory regulations for your country.

## 8.1 Removing the cover profiles



### ATTENTION

**Risk of property damage due to incorrect removal.**

Incorrect removal can result in property damage.

- Do not use screwdrivers or similar!

1. Remove the cover profile from the door rail with a glazing shovel (item no.: 81640200099)

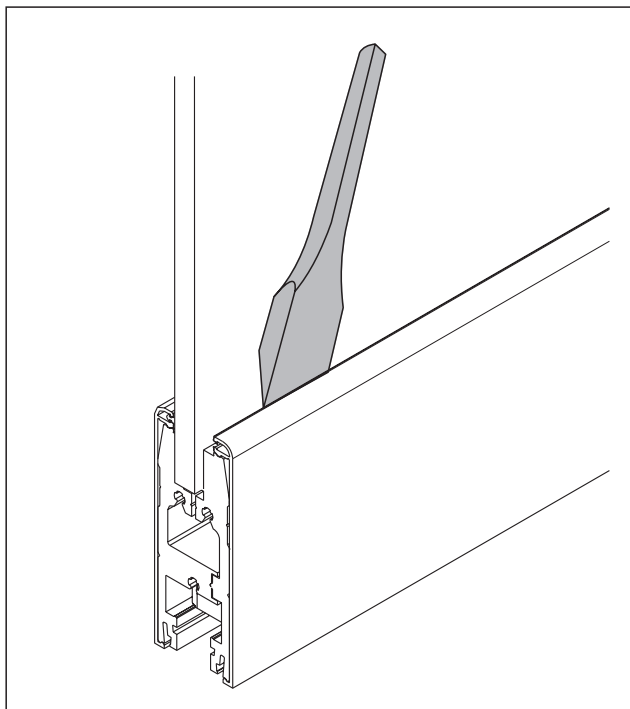


Fig. 45 Removing the cover profile

## 8.2 Removing a faulty electric strike release



### WARNING

**Danger to life through electric current.**

Work on electrical systems must only be carried out by qualified electricians.

- Before starting work on electrical systems and equipment, establish a voltage-free state and maintain this state while carrying out the work.

1. Unscrew the screws and pull the electric strike release out of the lock module (Fig. 46).

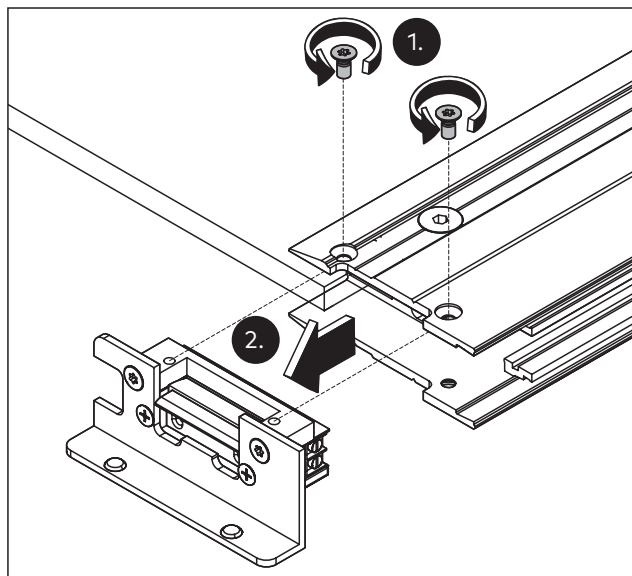


Fig. 46 Pulling the electric strike release out of the lock module

2. Disconnect the cable from the electric strike release.
3. Unscrew the screws and disassemble the electric strike release (Fig. 47).

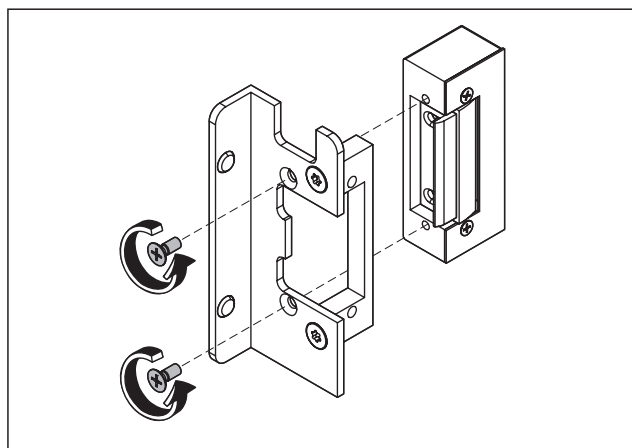


Fig. 47 Disassembling the electric strike release

## 8.3 Replacing the electric strike release

1. Follow the enclosed manual for the new electric strike release.
2. Mount the new electric strike release in reverse order ("8.2 Removing a faulty electric strike release").

Translation of the original document, subject to change without notice

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