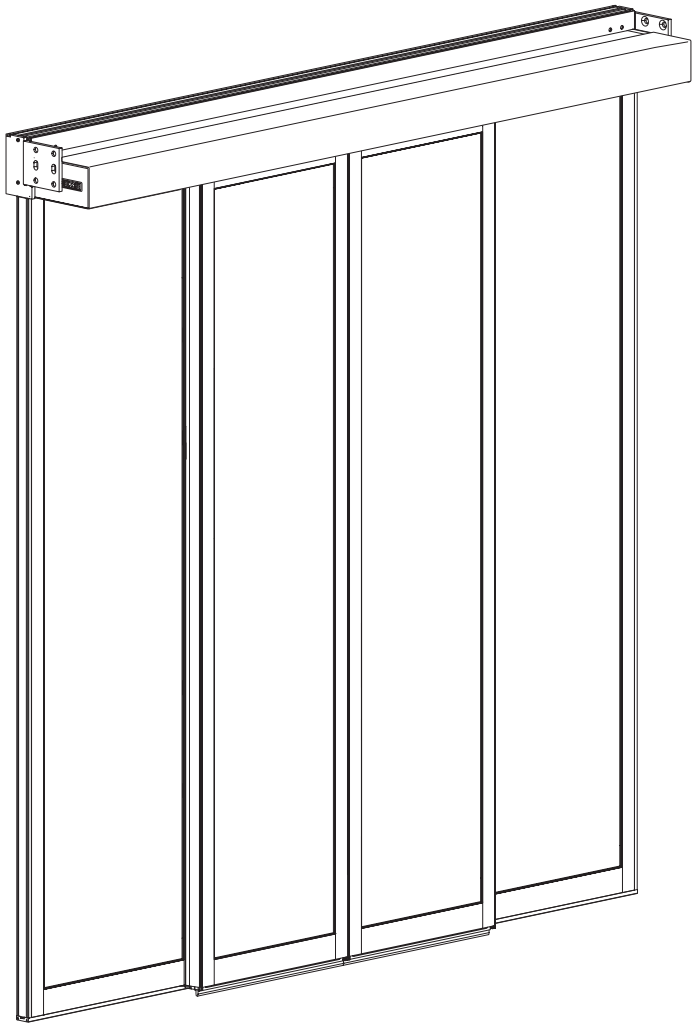


GCprofile Therm

EN Installation instructions

181269-00

GEZE

Contents

1 Introduction

1.1 Symbols and illustrations

Warning notices
Warning notices are used in these instructions to warn you of property damage and personal injury.
- ▶ 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.

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

Symbol	Meaning
	means "important note". Information to prevent property damage, to understand or optimise 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 Revisions and validity

Version 00: Valid for GCprofiles Therm with drive ECdrive T2 and ECdrive T2-FR from model year 2019

1.3 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.

1.4 Reference documents

Type	Name
Processing documents	Profile overview
Manufacturing documents	
Installation instructions	Fanlight
Installation instructions	Profile system leaves and side panel
Installation instructions	Sliding door system

The diagrams are subject to change without notice. Use only the most recent version.

1.5 Abbreviations

HSK	Main closing edge
NSK	Secondary closing edge
OKFF	Finished floor level
DH	Passage height

2 Fundamental safety precautions

2.1 Intended use

The sliding door system is used for the automatic opening and closing of a building passage.
The sliding door system may only be used in a vertical installation position and in dry rooms within the permitted application area (see installation and service instructions).

The sliding door system is designed for pedestrian traffic in buildings.
The sliding door system is not designed for the following uses:
- for industrial use
- for areas of application which do not serve pedestrian traffic (such as garage doors)
- on mobile objects such as ships

The sliding door system may only be used:
- in the modes of operation provided for by GEZE
- with the components approved / released by GEZE
- with the software delivered by GEZE
- in the installation variants / types of installation documented by GEZE
- within the tested/approved area of application (climate / temperature / IP rating)

Any other use is considered non-intended and will lead to the exclusion of all liability and warranty claims to GEZE.

2.2 Safety notices

- 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.
- If unauthorised changes are made to the system, GEZE cannot be held liable in any way whatsoever for any resulting damage, and the approval for use in escape and rescue routes ceases.
- 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.
- 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.
- Observe the current status of directives, standards and country-specific regulations, especially:
  - DIN 18650: 2010-06 “Building hardware– Powered pedestrian doors”
  - VDE 0100, Part 610: 2004-04 "Installing Electrical Power Systems with Nominal Voltages up to 1000 V"
  - DIN EN 16005: 2013-01 "Power operated pedestrian doorsets; safety in use; Requirements and test methods"
  - DIN EN 60335-1: 2012-10 “Safety of electrical devices for home use and similar purposes - Part 1: General requirements (IEC 60335-1: 2010, modified), German version EN 60335-1: 2012
  - DIN EN 60335-2-103: 2016-05 “Safety of electrical devices for home use and similar purposes - Part 2-103: Special requirements for drives for gates, doors and windows. (IEC 60335-2-103: 2006, modified + A1: 2010, modified), German version EN 60335-2-103: 2015

The product should be installed or incorporated in such a way that effortless access to the product is guaranteed during any repairs and/or maintenance, and that any removal costs do not stand out of proportion to the value of the product.

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.
- Attach safety stickers to glass door leaves.
- Danger of injury caused by unsecured crushing, impact, drawing-in or shearing spots!
- Danger of injury due to broken glass!
- Danger of injury due to sharp edges in the drive!
- Danger of injury during installation through freely moving parts!

2.4 Environmentally conscious working

When disposing of the profile system, separate the different materials and have them recycled.

2.5 Connection to the structure

Connection to the structure is to be carried out in accordance with the current version of the "Guide for planning and carrying out installation of windows and front doors in new and refurbished buildings".

2.6 Safety instructions related to transportation and storage

- ▶ Do not throw, do not drop.
- ▶ Avoid strong blows.
- Storage temperatures under -30 °C and above +60 °C can result in damage to the device.
- Protect against humidity.
- ▶ Use special glass transport devices (e.g. A-frames) for transporting glass.
- ▶ Separate several panels on a frame or during storage using intermediate layers (e.g. cork pads, paper or plastic cords).
- ▶ Always store glass in a vertical position on level and load-bearing ground. Use suitable material as a support (e.g. wooden slats).
- ▶ In the case of insulated glass, make sure that it is placed flush across the entire element thickness on at least 2 supports.
- During storage and support, safety devices must not cause any damage to the glass or edge seal of insulated glass and must be attached flat on the pane surface.
- Dry, well ventilated, closed, weather-proof and UV-protected rooms are suitable as storage areas.

2.7 Qualification

Installation of the GEZE sliding door drive may only be carried out by experts authorised by GEZE.

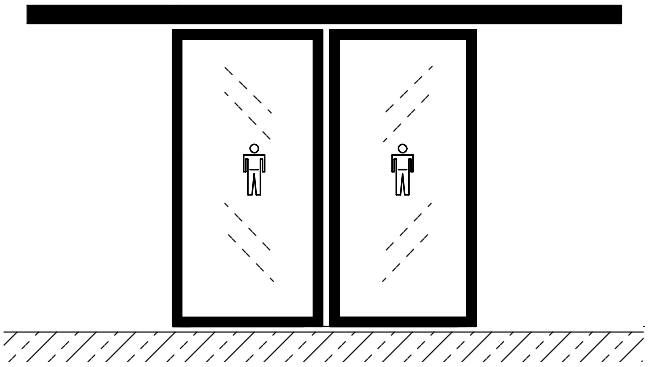
3 About this document

3.1 Overview

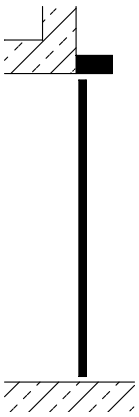
These instructions describe installation of the profile system GCprofile Therm 1-leaf and 2-leaf for an automatic sliding door system. It describes the pre-installation/installation of the moving leaves, the side panels under the lintel and the girder section with side panels under the girder section.

3.2 Moving leaves without side panel

View from the front

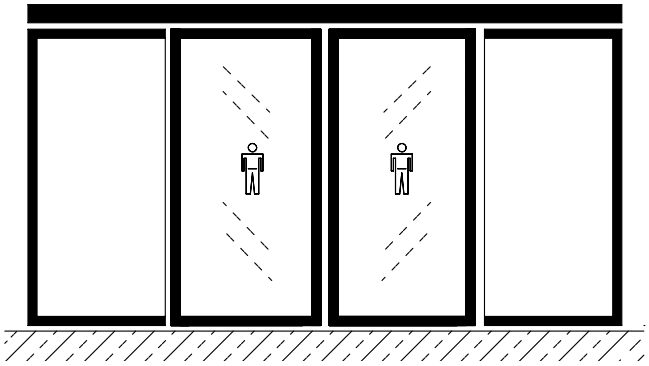


View from the side

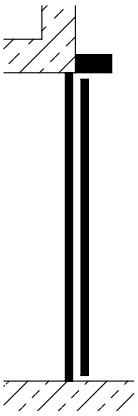


3.3 Moving leaves with side panel under the lintel

View from the front

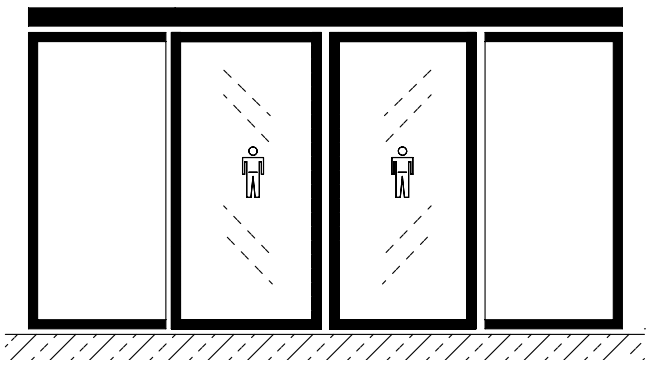


View from the side

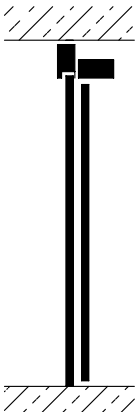


3.4 Moving leaves with side panel under the girder section without fanlight

View from the front



View from the side



4 Overview

4.1 Diagrams

Drawing no.	Type	Name
70518-ep100	Installation diagram	Wall installation, 2-leaf
70518-ep101	Installation diagram	Girder section and side panels, 2-leaf
70518-ep102	Installation diagram	Girder section and side panels and fanlight, 2-leaf
70518-ep103	Installation diagram	Side panel under lintel, 2-leaf
70518-ep104	Installation diagram	Post-rail facade, 2-leaf
70518-ep110	Installation diagram	Wall installation, 1-leaf
70518-ep111	Installation diagram	Girder section and side panels, 1-leaf
70518-ep112	Installation diagram	Girder section and side panels and fanlight, 1-leaf
70518-ep113	Installation diagram	Side panel under lintel, 1-leaf
70518-ep150	Installation diagram	Angled floor guide
70518-ep151	Installation diagram	Continuous floor guide
70518-ep152	Installation diagram	Continuous floor guide with floor guide drainage
70518-ep160	Installation diagram	Angled floor guide with floor lock

The diagrams are subject to change without notice. Use only the most recent version.

4.2 Tools and aids

Tool	Size/number/use
Trestles, 2 units	
A-frames	
Tensioning strap	
Vacuum lifting pads	
Spirit level/plumb bob/cross-hair laser	
Tape measure	5 m or 10 m
Torx screwdriver	
Side-cutting pliers	
Rubber/plastic hammer	
Pencil	

4.3 Torques

The torques are given with the respective installation step.

4.4 Consumables

Consumable	Use/art/mat. no.
Spacer blocks	
Silicone for connecting joints	

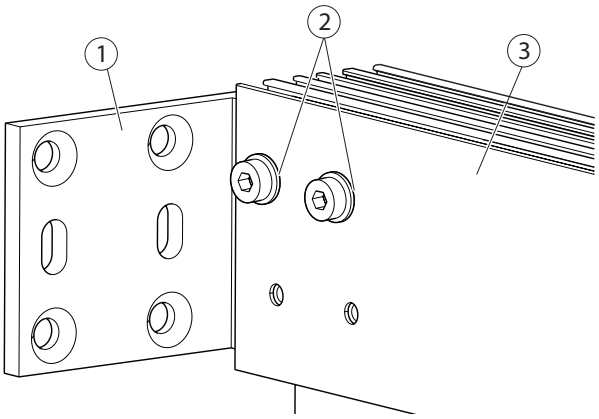
5 Supplied by GEZE and completeness

▶ Open packaging units and check for completeness on the basis of the delivery note.

6 Pre-installation in the workshop

6.1 Pre-installing the girder section

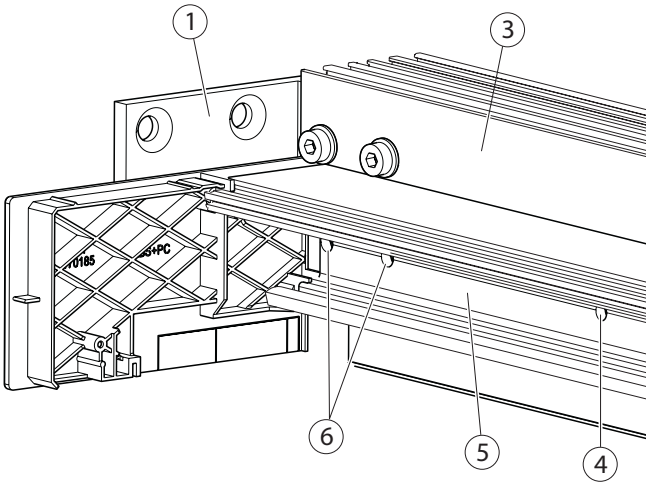
- ▶ Fit the mounting bracket (1) to the girder section (3) using screws through the screw holes (2) (upper screw holes).



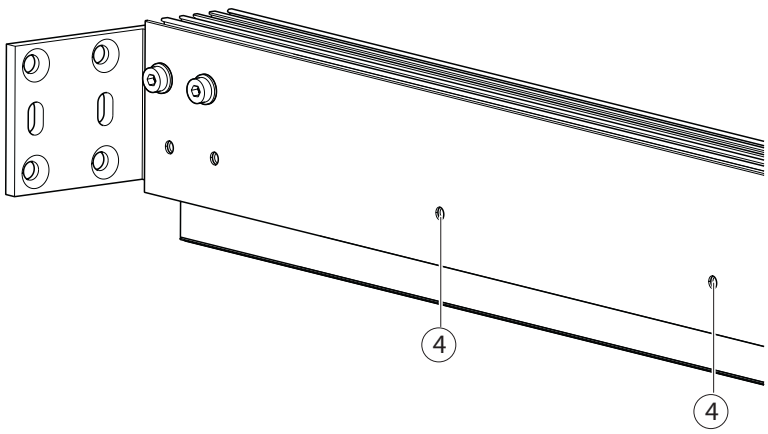
- ▶ Fit the track (5) (without modules) to the girder section (3) with the mounting bracket (1) using screws through the screw holes (6).
- ▶ Align the track (5) and drill fixing holes (4).

The number of fixing holes depends on the length of the track (5).

- ▶ Remove the track

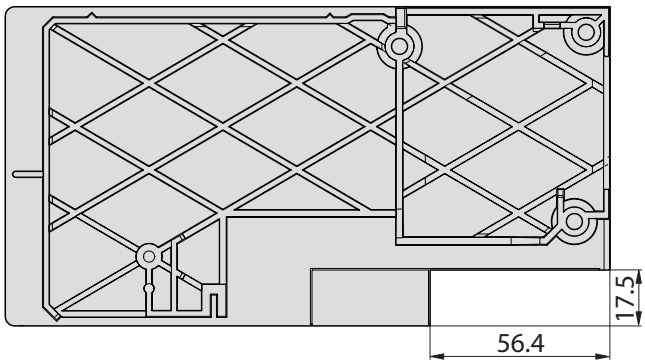


- ▶ Set riveting nuts M8 into the fixing holes (4) on the girder section.



6.2 Preparing the 1-leaf system

- Cut a recess out of the side panel on the main closing edge in accordance with the adjacent drawing.



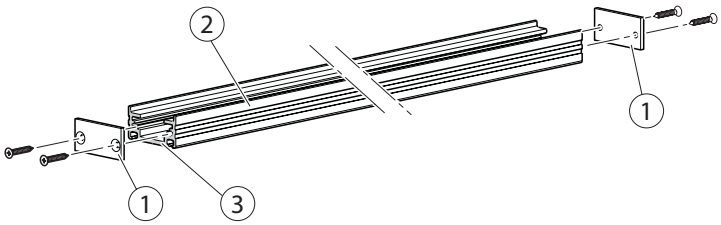
right hand slide to open shown

7 Installation on site

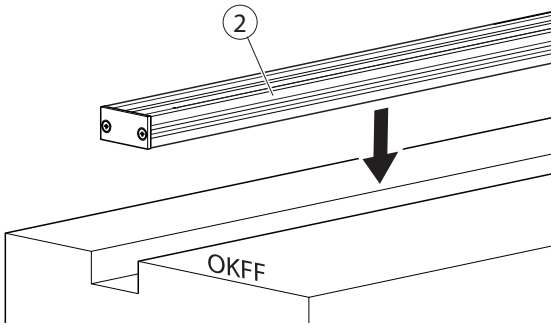
7.1 Pre-installing continuous floor guide

7.1.1 Pre-installation of continuous floor guide without floor guide drainage (optional)

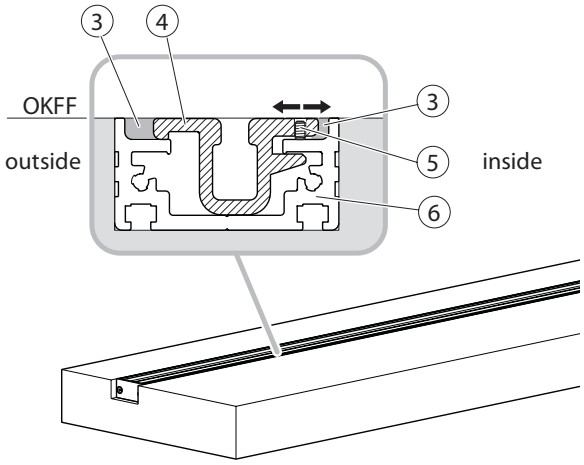
- Apply sealing compound (3) to the end of the floor guide (2).
- Screw the cover panels (1) onto the floor guide (2).



- Insert the floor guide (2) in the floor and fix in place.
- Seal the drill holes.
- Seal the floor guide watertight.

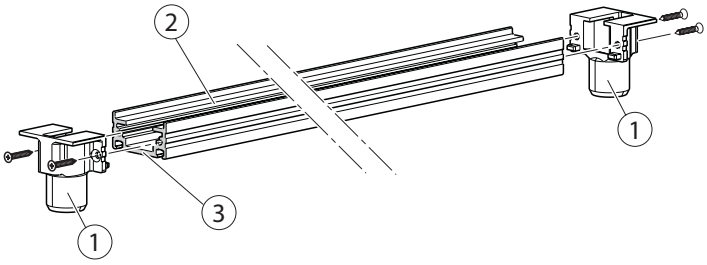


- Insert the inner floor guide (4) into the outer floor guide (6) in such a way that the setscrews (5) are facing inwards.
- Adjust the distance between the inner floor guide (4) and the outer floor guide (6) using the setscrews (5) (tightening torque 3 Nm).
- Following final position of the inner floor guide (4) seal the grooves using sealing compound (3).

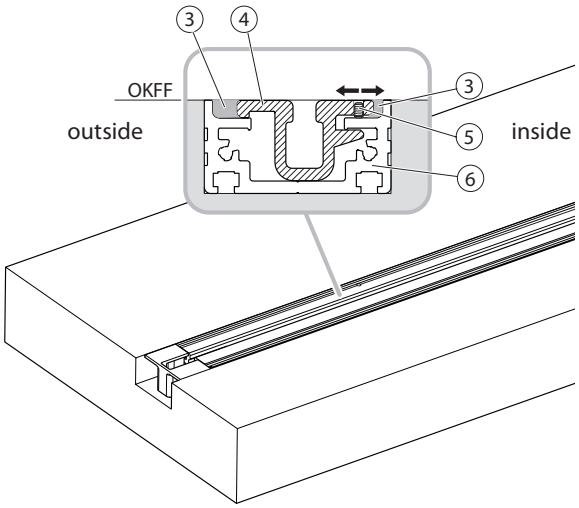


7.1.2 Pre-installation of continuous floor guide with floor guide drainage (optional)

- Apply sealing compound (3) to the end of the floor guide (2).
- Screw the wastewater fitting (1) onto the floor guide (2). Insert the floor guide (2) into the floor.
- Slide the wastewater fitting (1) into the on-site wastewater pipe (nominal width 32).
- Fix the floor guide in place.
- Seal the drill holes.
- Seal the floor guide watertight.



- Insert the inner floor guide (4) into the outer floor guide (6) in such a way that the setscrews (5) are facing inwards.
- Adjust the distance between the inner floor guide (4) and the outer floor guide (6) using the setscrews (5) (tightening torque 3 Nm).
- Following final position of the inner floor guide (4) seal the grooves using sealing compound (3).

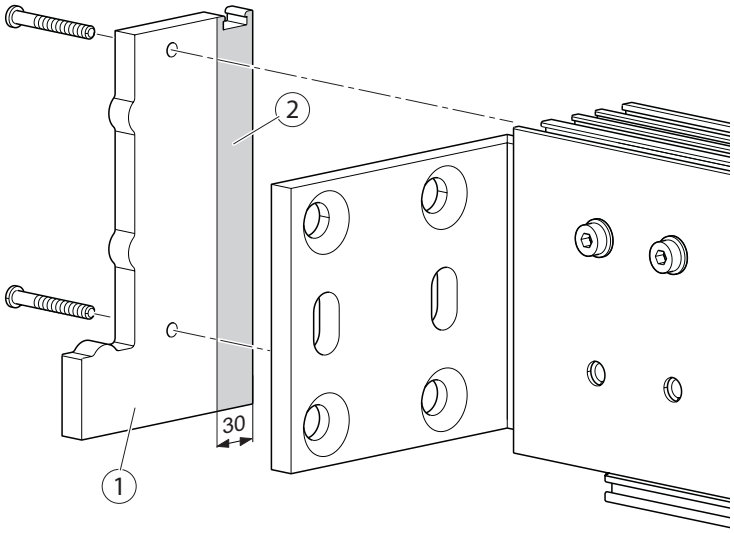


7.1.3 Angled floor guide

The angled floor guide is only installed after the connection profiles have been attached, see Chapter 7.2.3.

7.2 Girder section installation with side panel

7.2.1 Installing the cover panel

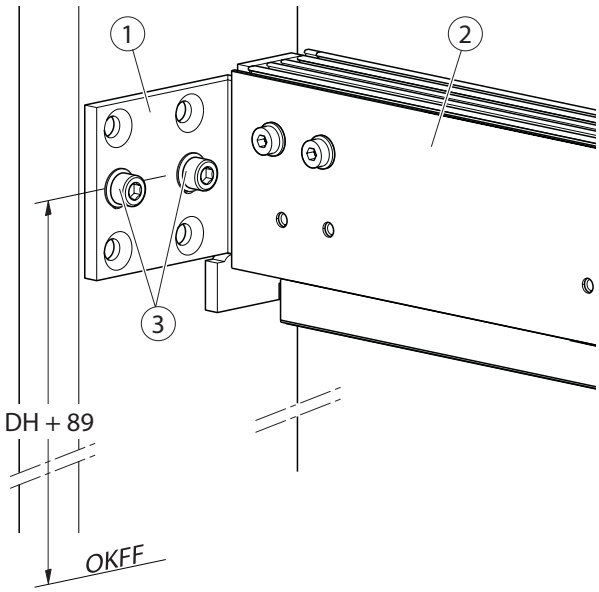


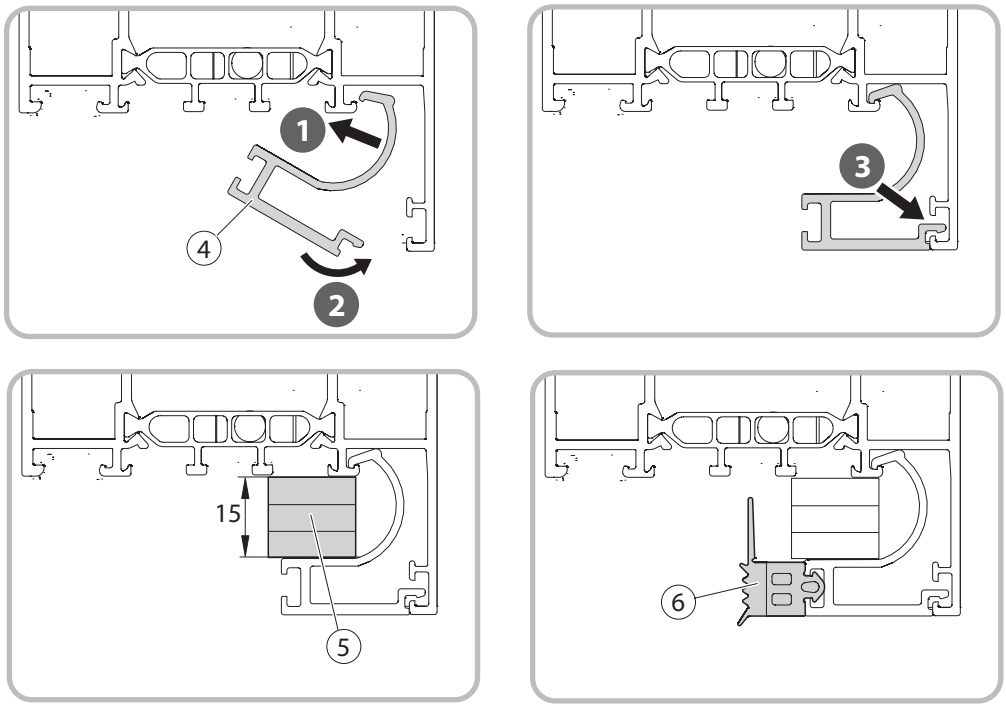
- Coat the cover panel (1) with sealing compound in the marked area (2).
- Fit the cover panel (1) onto the girder section using 2 screws.

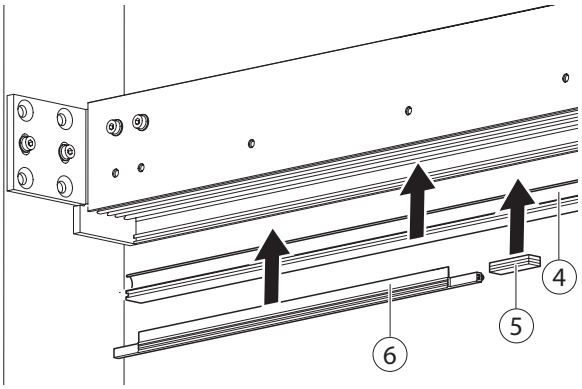
7.2.2 Installing the girder section

The girder section is fixed in a higher position using the oblong holes (3) and then lowered onto the side panel.

- Fix the girder section (2) to the wall using the oblong holes (3) and the mounting bracket (1) in accordance with the installation diagram.
- Support the mounting bracket so that it fits properly on the wall and can bear a load.

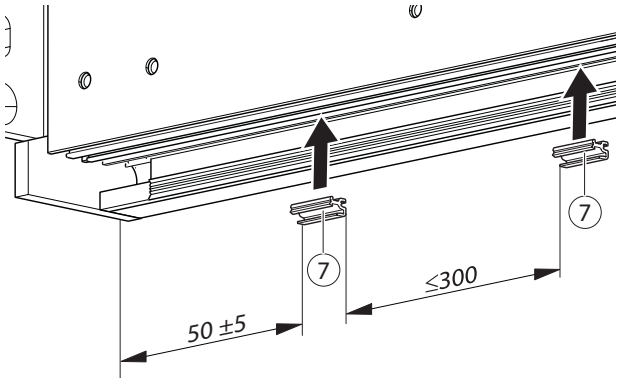






- Insert the rebate reduction profile (4) at an angle and hook in the top ❶.
- Swing the rebate reduction profile (4) in place ❷ and clip in at the bottom ❸.
- Secure using 15 mm blocks (5) in the passage area.
- Attach outer side panel seal (6) with notch in accordance with the drawing.

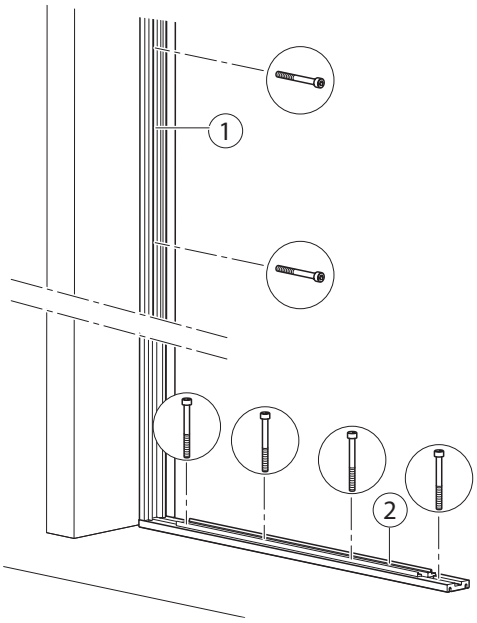
- Attach glass strip fixing parts (7) near the side panels at regular intervals (≤300 mm).



- Install the wall connection profile (1) and floor connection profile (2) in accordance with the EP drawing.

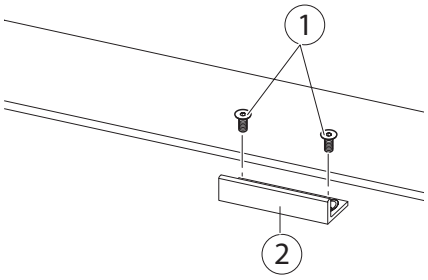
Gap between screws < 400 mm.

- The connection profiles must be back filled so that they flush, are capable of bearing a load and are airtight (see Chapter 2.5).



7.2.3 Installing the angled floor guide optional

- Screw the angled floor guide (2) tight using 2 countersunk screws DIN 7991 M5×12 (1) (tightening torque 6 Nm).

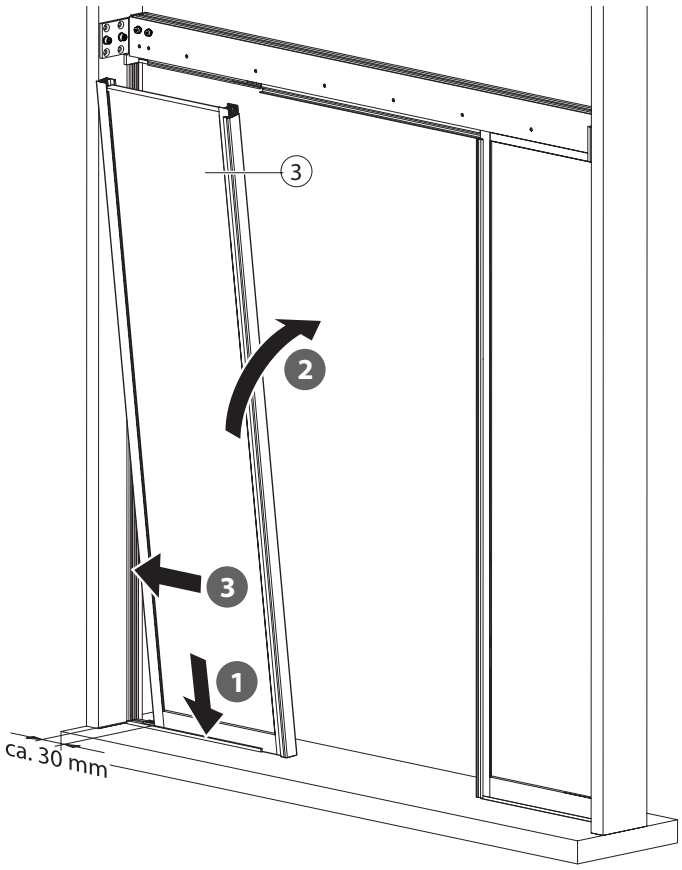


7.2.4 Mounting the side panel

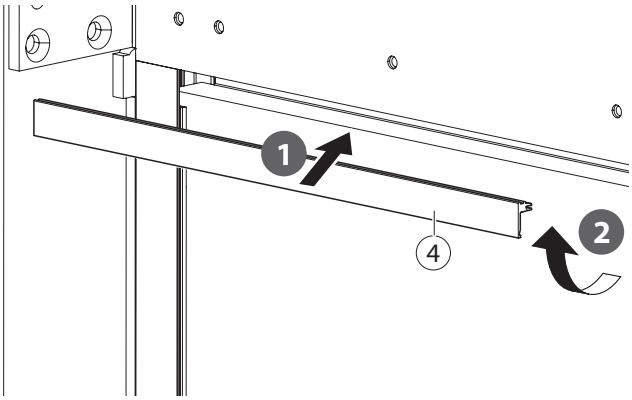
- Set the side panel (3) on the floor connection profile ❶, tilt inwards ❷ and push towards the wall connection profile ❸.

The wall connection must interlock with the frame profile of the side panel across the entire height.

- Check the opening width and perpendicularity of the passage.
- Seal joints between the side panel profile and the outer wall connection profile using a sealing compound.

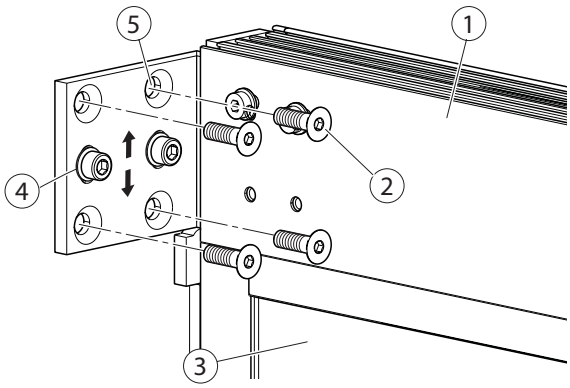


- Insert the glass strip profile (4) at an angle into the glass strip attachments and latch into place by turning upwards.

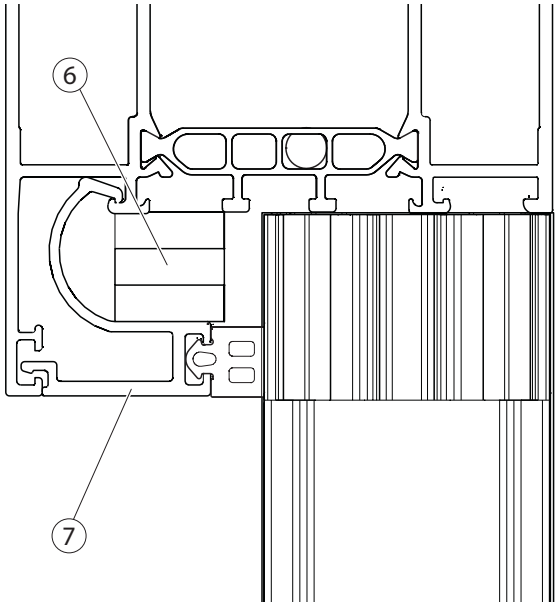


7.2.5 Screwing the girder section tight

- Undo the screws (4) and lower the girder section (1) onto the side panel (3).
- Adjust the height of the girder section using the oblong holes.
- Align the mounting bracket horizontally.
- Tighten screws (4).
- Fit the plug-on seal.
- Score four fixing holes (5) and drill them.
- Attach the girder section using 4 countersunk screws M10 (depending on the base).

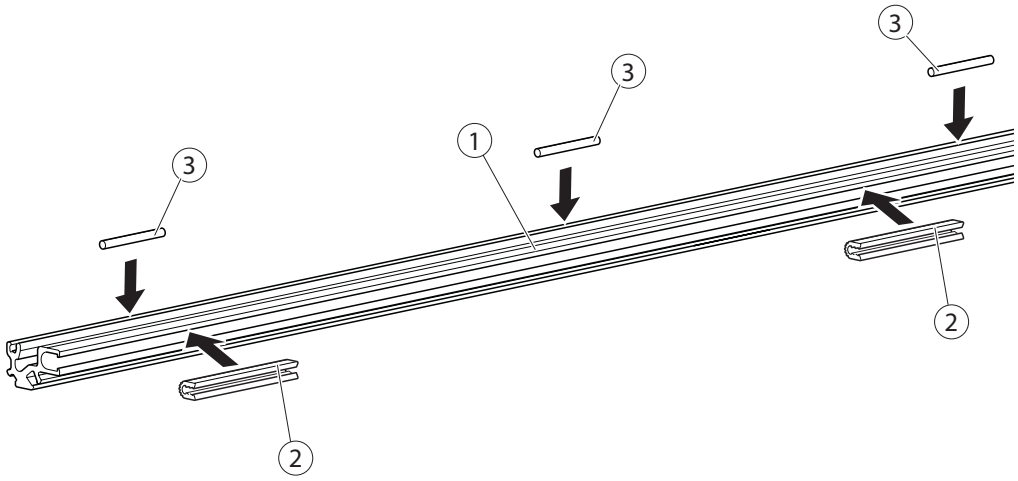


- Check rebate reduction profile (7) for correct fit.
- Remove the 15 mm blocks (6) in the passage area from the rebate reduction profile (7).

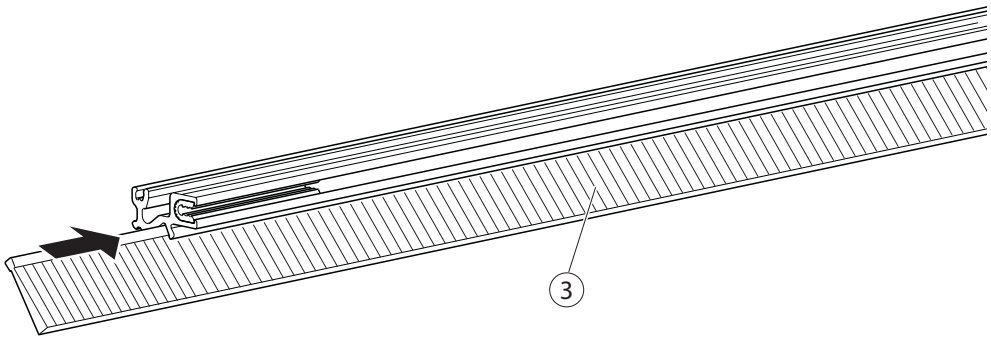


7.2.6 Installing the cover panel in the passage area

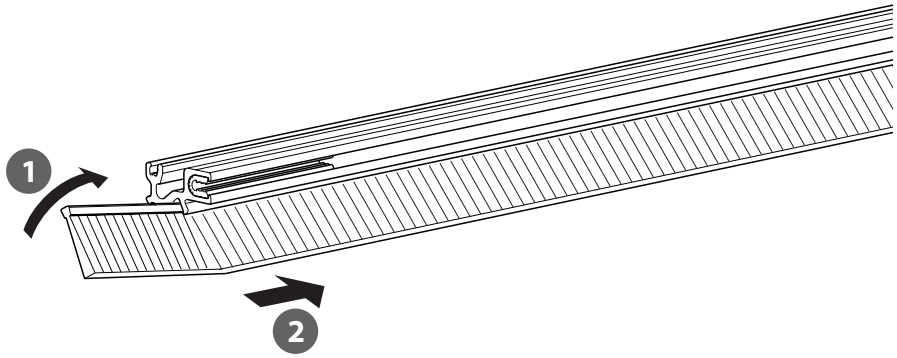
Prepare the fixing profile for the passage



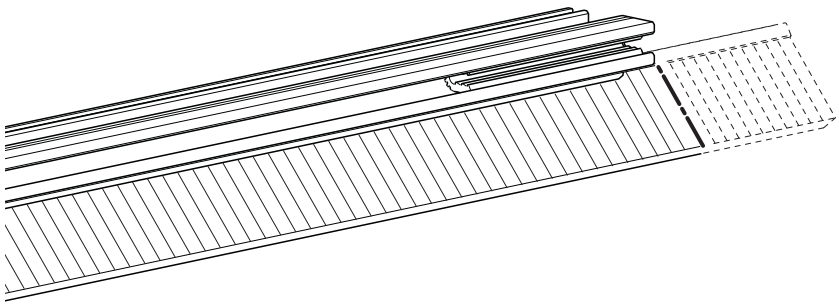
- Insert spacers (2) about 500 mm apart in the fixing profile (1) on the inside.
- Insert round cords (3) about 500 mm apart.



- Push in the brush strip (3). Allow this to project by about 2 cm.

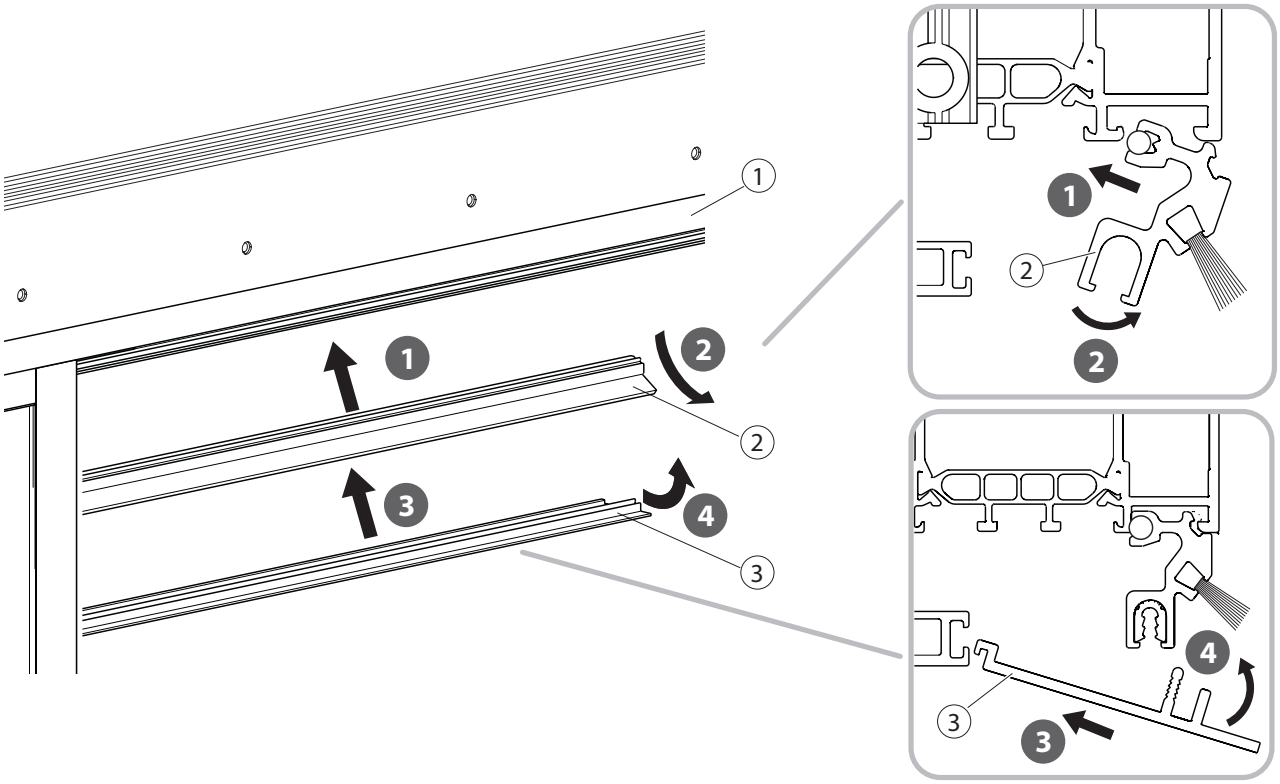


- Bend the projecting end up slightly.
- Push the brush strip in flush.



- On the other end of the fixing profile, cut the brush strip off flush.

7.2.7 Inserting the fixing profile girder section



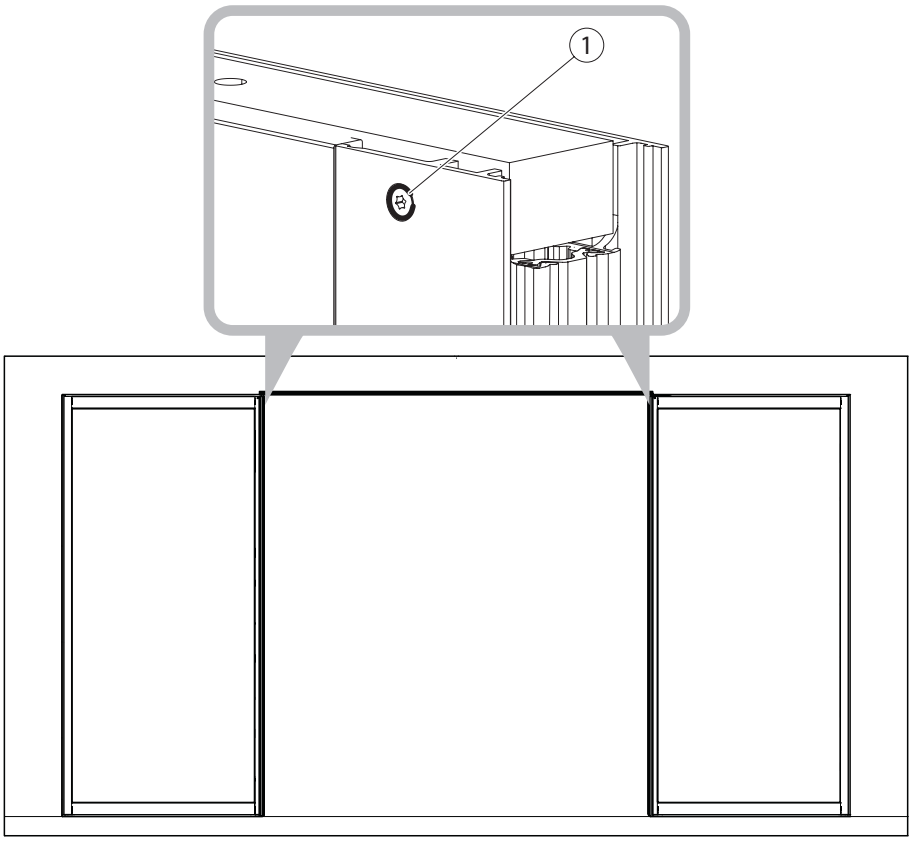
- ▶ Set the equipped fixing profile (see Chapter 7.2.6) at the bottom in the girder section (1) with the groove with the round cord pieces ❶ and swivel ❷.
- ▶ Set the passage cover (3) on the rebate profile ❸ and push upwards into the fixing profile passage ❹.

7.3 Lintel installation with side panels

7.3.1 Installation position

During installation of the side panel, heed the correct installation position:

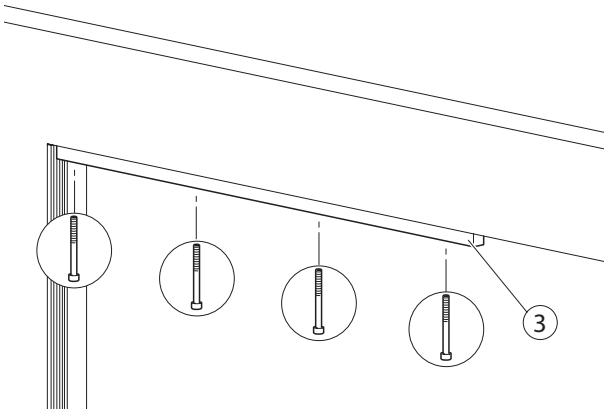
- The fixing screw for the side panel (1) is on the inside at the top.



7.3.2 Fitting the fixing profile

▶ Fit the fixing profile (3) (tightening torque > 5 Nm, depending on the base and screw type).

Gap between screws < 400 mm.

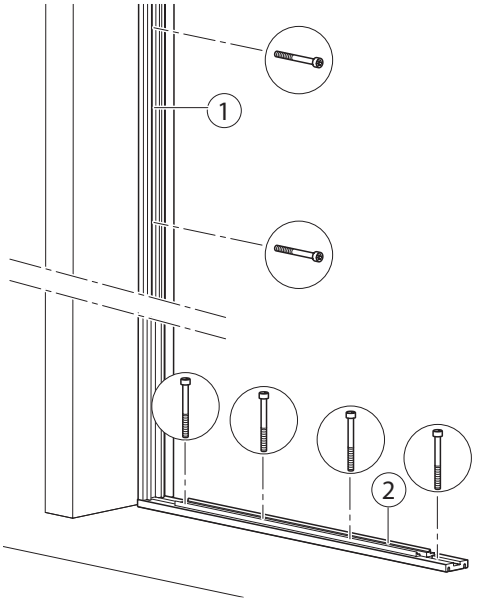


7.3.3 Fitting the wall connection and floor connection profiles

- Install the wall connection profile (1) and floor connection profile (2) in accordance with the EP drawing.

- The connection profiles must be back filled so that they fit, are capable of bearing a load and are airtight (see Chapter 2.5).

Gap between screws < 400 mm.

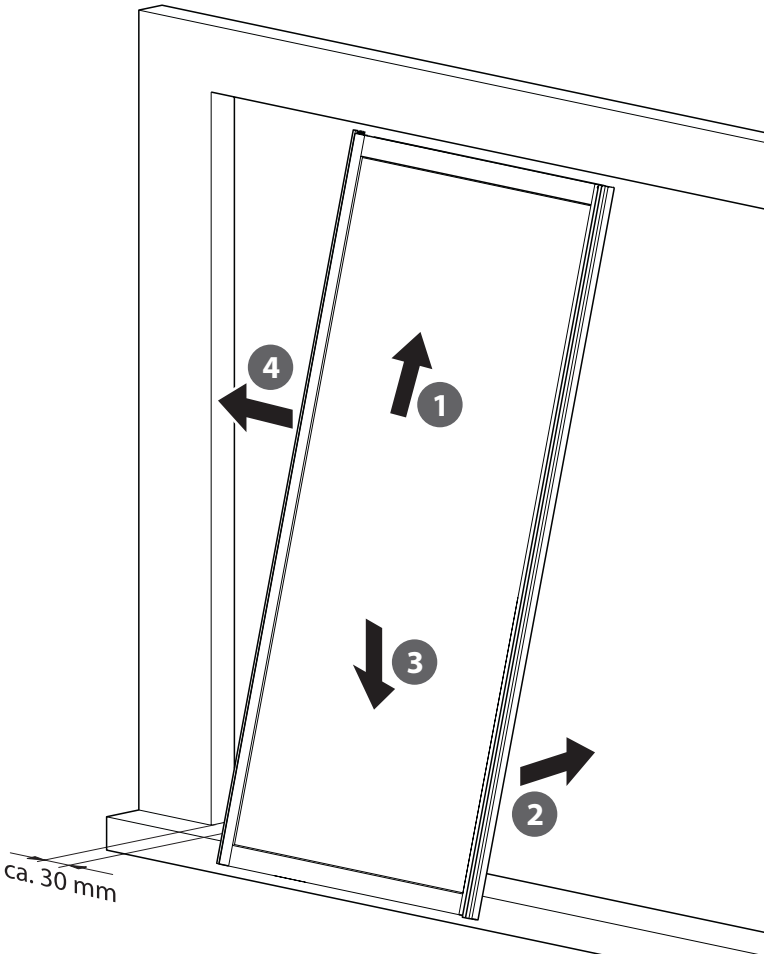


7.3.4 Pivoting the side panel in

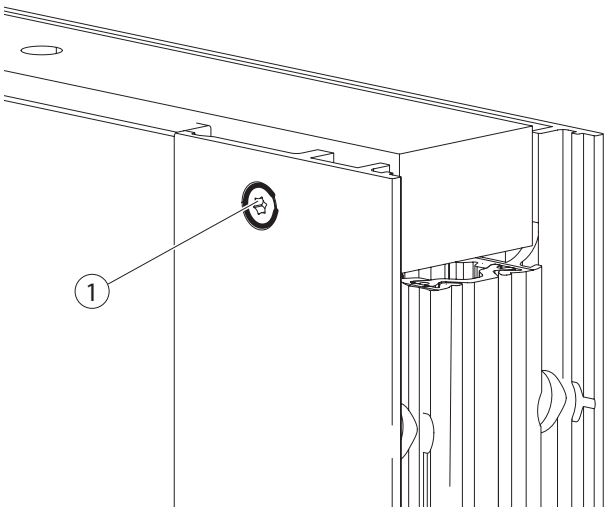
- Hook the side panel in at the top, approx. 30 mm away from the wall ❶.
- Pivot the side panel in at the bottom ❷.
- Lower onto the connection profile ❸.
- Push the side panel towards the wall against the wall connection profile ❹.

The wall connection must interlock with the frame profile of the side panel across the entire height.

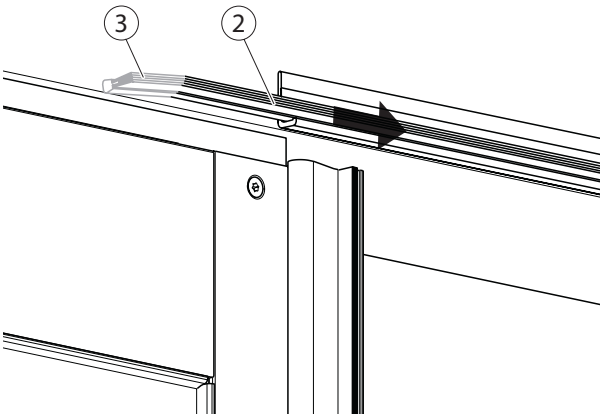
- Check the opening width and perpendicularity of the passage.
- Seal joints between the side panel profile and the outer wall connection profile using a sealing compound.



- ▶ Drill a hole Ø 2 mm for the fixing screw.
- ▶ Screw in the fixing screw side panel (1) (tightening torque 2 Nm).



- ▶ Push the brush strip (2) passage area into the brush holder profile.
- ▶ To fix the brush strip, bend the end (3) slightly using pliers.
- ▶ Fit the brush holder with the brush directly above the passage area, see EP drawing.



- ▫ If no fanlight is to be installed:
- ▶ Install the sliding door drive ECdrive T2 in accordance with the installation instructions ECdrive T2.

- ▫ If a fanlight is to be installed:
- ▶ Install the fanlight in accordance with the installation instructions “GCprofile Therm - profile system fanlight”.

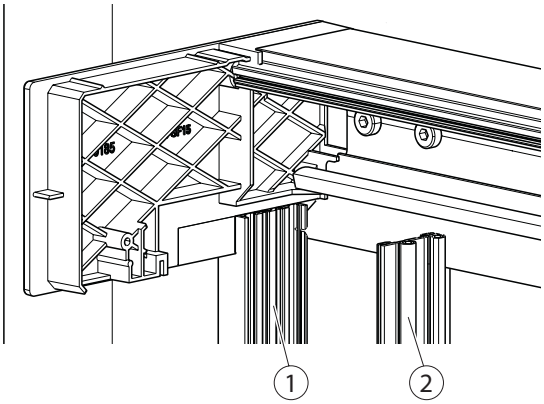
7.4 Sliding door, 1-leaf

7.4.1 Installing wall strip profile

Pre-conditions:
- Door leaves are installed and aligned.
- Clearances are set.

- ▶ Screw the wall strip profile (1) tight.
- ▶ Press in the HSK sealing profile (2).

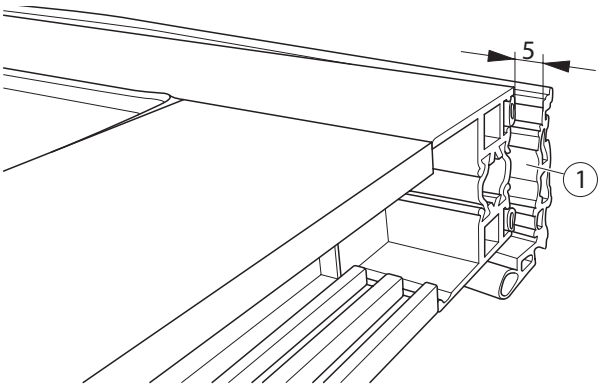
The wall strip profile (1) must be back filled so that it fits, is capable of bearing a load and is airtight (see Chapter 2.5).



7.5 Installing NSK package on the side panel

Do not bend or buckle the NSK package.

- ▶ Insert the NSK package side panel (1) in such a way that it projects by 5 mm at the bottom.

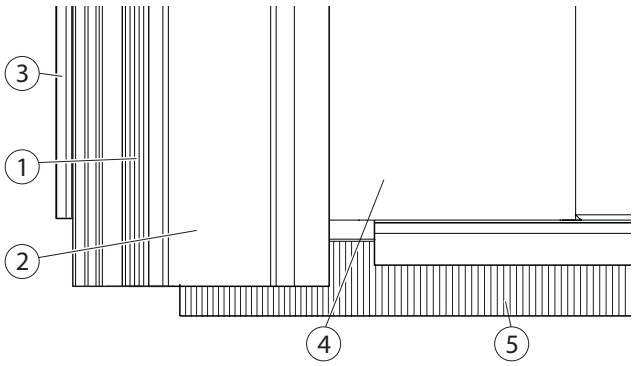


7.6 Installing NSK package on the moving leaf

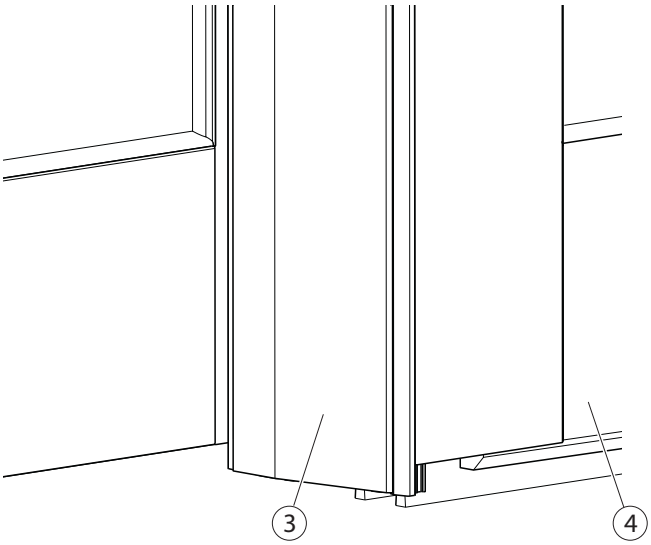
Do not bend or buckle the NSK package.

- Insert the NSK package on the NSK profile of the moving leaf (4) in such a way that the NSK seal (2) projects by 7 mm at the bottom.

The end of the aluminium cover profile (3) is flush with the lower edge of the aluminium profile on the moving leaf (4).



1 Brush strip
2 NSK seal
3 Aluminium cover profile
4 Moving leaf
5 Brush strip floor guide strip



8 Cleaning

What is to be cleaned	How is it to be cleaned
Glass surfaces	Wipe with a cold vinegar/water mixture; then dry.
Stainless surfaces	Wipe with non-scratching cloth.
Coated surfaces	Wipe with water and soap.
Anodised surfaces	Wipe with non-alkaline potassium soap (pH value 5.5…7)
Plastic surfaces	Wipe down with water and a mild detergent.
EPDM seals	Wipe down with water and a mild detergent.

9 Disassembly

WARNING!
Risk of fatal injury due to electric shock!
- Get a qualified electrician to connect and disconnect the electrical system (230/115 V).
- Carry out mains connection and earth conductor test in accordance with VDE 0100 Part 610.

CAUTION!
Danger of injury!
People can be injured when the cover is pivoted.
- If the cover is more than 4 m long, always work in pairs when handling the cover.

CAUTION!
Danger of injury due to impact and crushing!
- Secure the door leaves against unintentional movement.
- Disconnect the rechargeable battery.

Dismantling is done in the reverse order of installation.

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