

SLIDING DOOR: ASSEMBLY & INSTALLATION

SYSTEM AIR-B / SERIES 800

DIVIDING RAIL AND HANDLE

Version 1.7 (2019-02-06)

1.02.1.c



Assembly
Install

Subject to technical changes.

raumplus

CONTENT AND TOOLS

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TOOLS:

(without claim of completeness)

- Hack saw
- Allen key set
- 2x open-ended spanner (10mm)
- Drilling machine
- Drill set metal / stone
- Screwdriver set
- Rubber mallet
- Pencil
- Water level
- pressure roller for glass / tape



VERSION INFORMATION:

Version 1.1: Bottom rail and bottom guiding 12mm AIR , new

1.2: new adhesive system

1.3: Pages added / cleaner changed / drilling template added

1.4: Top track ins. for AIR S34 SDB added

1.6: Adhesion technique update

1.7: handle f. div. rail S800/S8000 replaced with handle insert S800/S8000/AIR and C42/AIR / milling glas

PRODUCT INFORMATION

GENERAL INFORMATION: Preparation

- This manual is part of the product and describes the safe and proper installation of the system. Please read the instruction carefully before installation
- Please note that the assembly should only be done by qualified and trained staff in strict compliance with all details indicated in this document. Improper installation in variation from manufacturer's specification may cause defects and danger, thus endangering the safe fixing of the product as well as the safety of the prospective user. The liability of the manufacturer shall be excluded in case of defects and consequential damages resulting from incorrect assembly of this product.
- Please check the completeness of the delivered parts and check carefully if any transport damages are visible.
- If any parts are damaged or lost, please immediately contact the responsible supplier.
- It is assumed that you have exactly identified all cutting dimensions according to the measurement instruction for **raumplus** products.

SYMBOLS:

Symbol Importance



Risk or danger



Advice and information



Additional information / other documents



Directional data / direction of movement



„yes“ and „right“



„no“ and „wrong“



Follow the order

Symbol Importance



Perform the production step with two persons

SYSTEM:

System Information: S 800 AIR-B

- max. weight of element = **60 kg**
- min./max. door height = **700 mm / 3500 mm**
- min./max. door width = **450 mm / 1200 mm**

PRODUCT INFORMATION

GENERAL INFORMATION: **Product safety**

- The door system complies with the prior of the art and the authorized safety rules at the time of delivery.

USE:

Intended use

- The prerequisite for the intended use of our products is the professional installation according to our installation instruction. Sufficient fittings must be available and durably installed to all relevant places.
The function of the fitting must not be hindered or altered during installation.
- Special solutions are only possible in consultation with **raumplus**.

Use not as intended

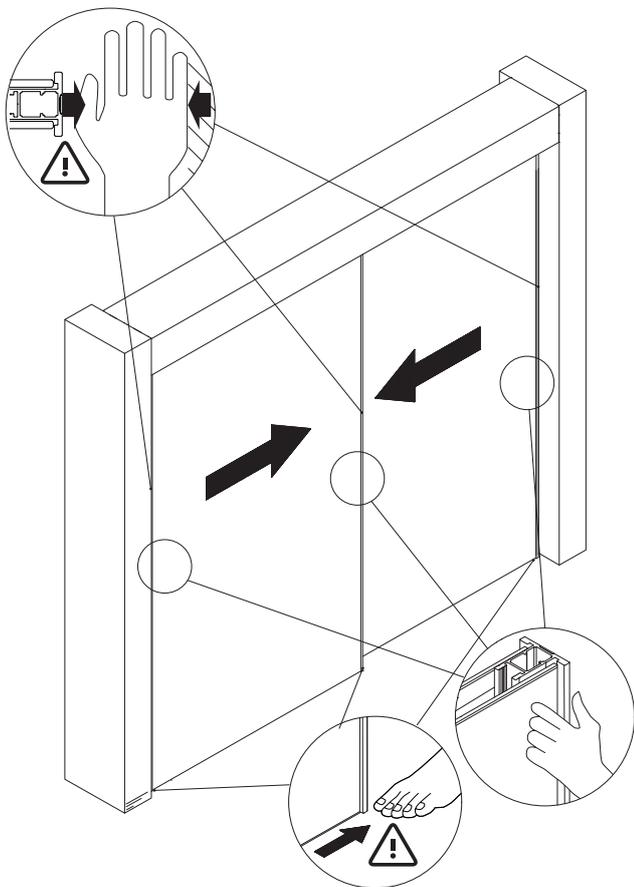
- Risk or danger may occur in the following cases:
 - the door system has improperly been installed or maintained
 - the safety and installation instructions have not been followed.
 - after improper installation or inadequate fixing (e.g. to parts of buildings)
 - the maximum weight of the doors has been exceeded.
 - improper shock and case loads or other additional loads on the fittings have occurred
 - the fittings have been used outside.
 - body parts or objects got in to the closing edges or door runnings during use of the door wing.
 - the door system is not used as intended.

Structural modifications

- Structural modifications that are not offered as an accessory from **raumplus** may only be attached or installed with permission of **raumplus** GmbH!

MANUAL

This manual is part of the delivered product and describes the safe and proper use.



Designated use:

The product is designed and manufactured for indoor use.

The product was designed as a hand-guided sliding door that is usually not being moved faster than walking speed and should be stopped manually when reaching the end position. The doors are guided on top track.

Any other use that deviates from the specific proper use is not according to the **raumplus** regulations.

Manual:

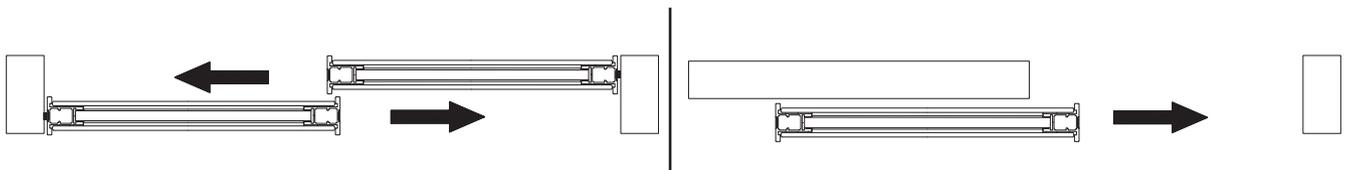
Open the door by the handle profile or the handle (optional).

Guide the door slowly to the ...
... opening / closing point.

Attention:

Preserve your hands from getting trapped during the movement of the door. When closing or opening the door never grasp the profile, only use the handle profile or the handle.

Use the door as instructed.



Safety Information:

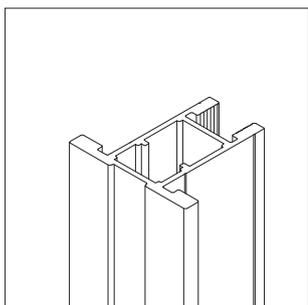
The product complies with the prior art and the recognized safety rules at the time of delivery.

- Pay attention to child safety.
- No additional load to the doors.
- Structural changes, additions or modifications can only be carried out by a dealer.
- In case of malfunctions or irregularities: shut down the system and contact your dealer.
-  For Installation without wall connection: use of stopper is obligatory!

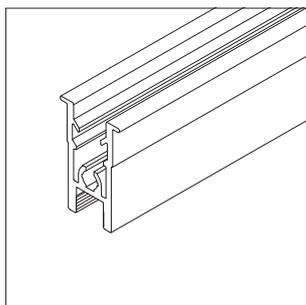
As defined in the „Law of Liability for Products“ (§4 Prod-HaftG), for the liability of the manufacturer, for his products, the above information has to be regarded. The disregard of this manual, releases the manufacturer from his liability.

ACCESSORIES

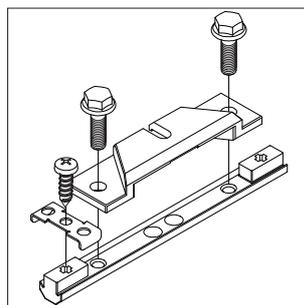
ASSEMBLY S 800 SYSTEM AIR



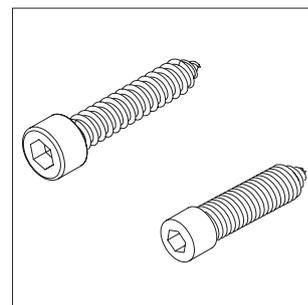
1_ 19.01.0xx



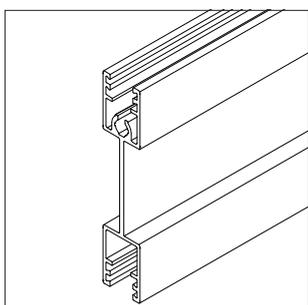
2_ 19.34.0xx



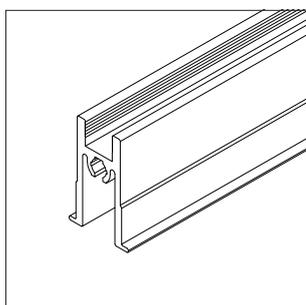
3_ 10.06.021



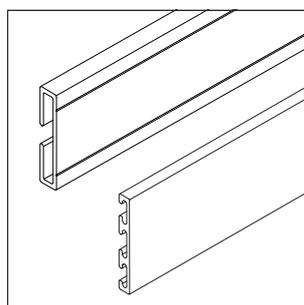
4_ 10.07.012 / 10.07.008



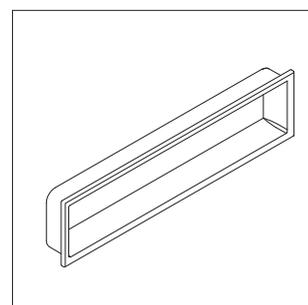
5_ 19.22.0xx



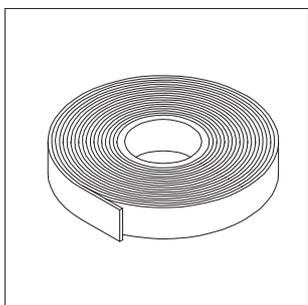
6_ 19.36.0xx



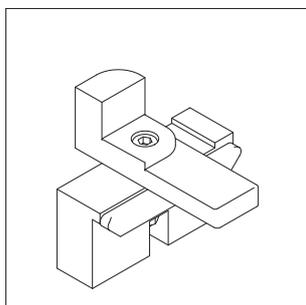
7_ 19.23.0xx / 19.24.0xx



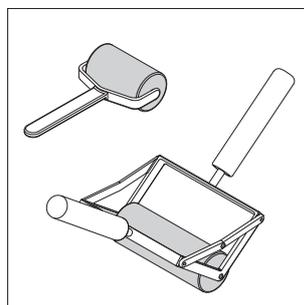
8_ 10.01.29x



9_ 25.12.047



10_ 30.03.012 / 30.03.013



11_ 30.15.025 / 30.15.026

1_ Stile S 800

2_ Rail S 800 air system

3_ Pick-up element S 800 „AIR system“

4_ Frame screws 6,3 x 32 mm
Screw for dividing rail

5_ Dividing rail S 800

6_ Bottom rail S 800 AIR / C 42

7_ Insert profile for dividing rail S 800
Cover for dividing rail S 800

8_ Handle insert S 800/S 8000/AIR

9_ Double sided tape S 800

6

10_ Assembly tool S 800 for anodized profiles
Assembly tool S 800 for powder coated profiles

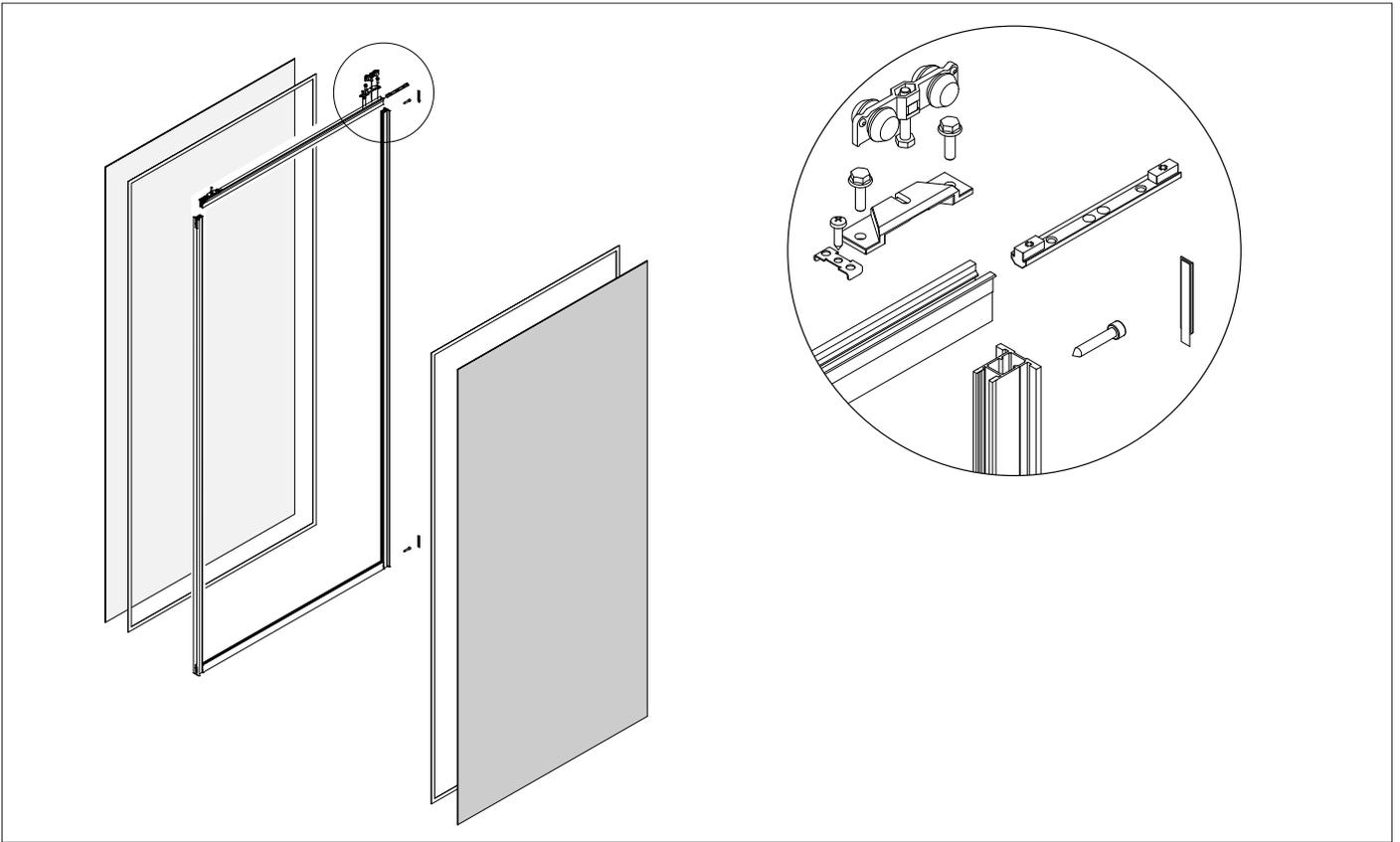
11_ Pressure roller S 800 for double sided tape
Pressure roller S 800 for glass

without illustration:

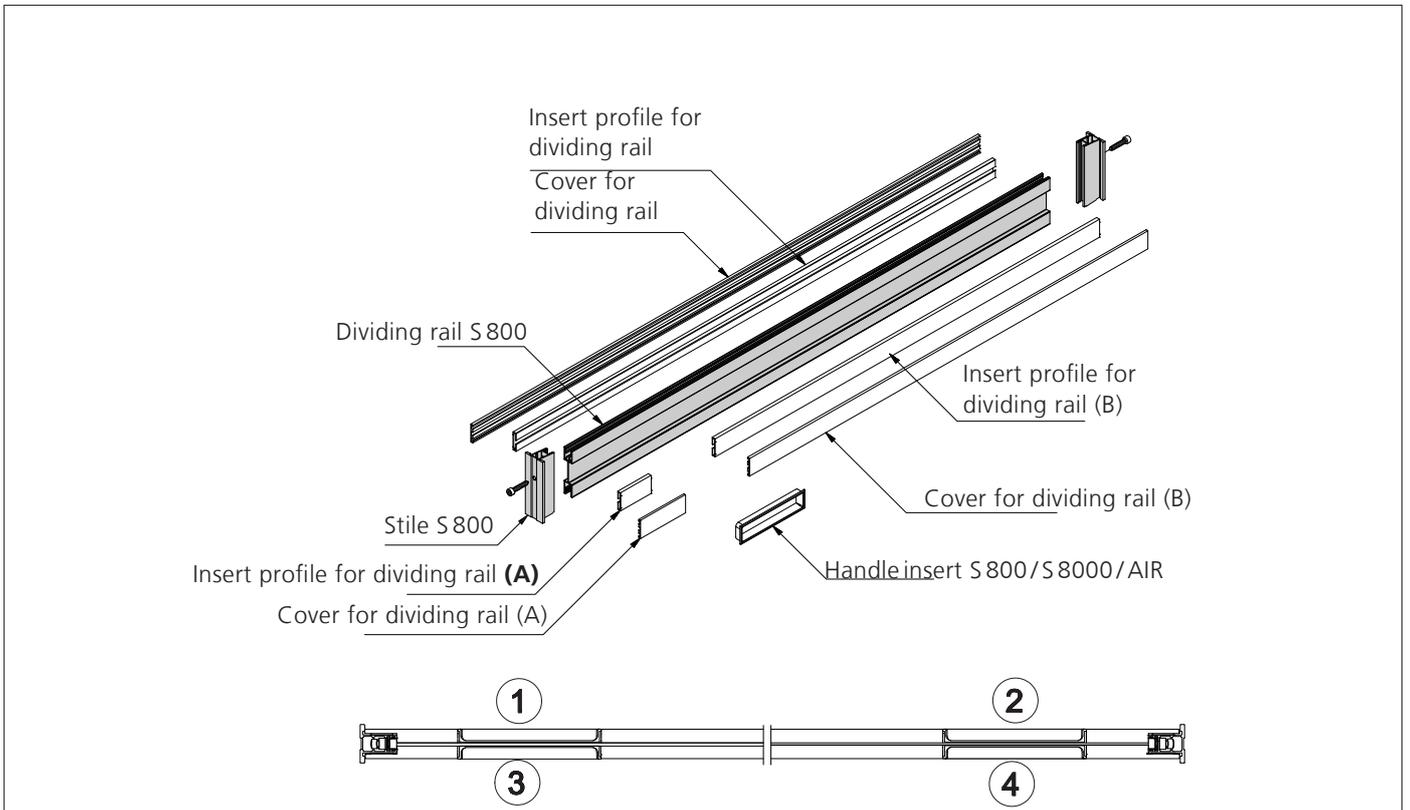
12_ 8 mm gasket (10.07.034)

13_ Drilling template (30.14.019)

DETAIL DRAWING



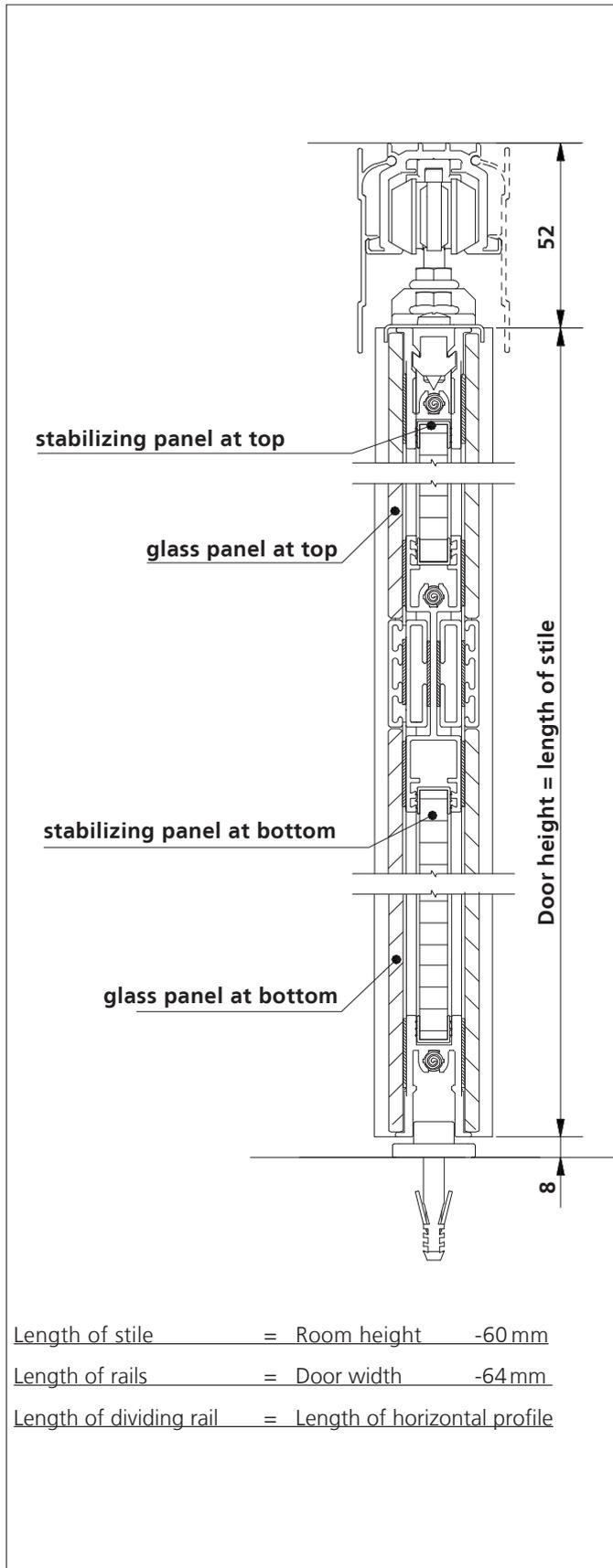
1_ S 800 system AIR.



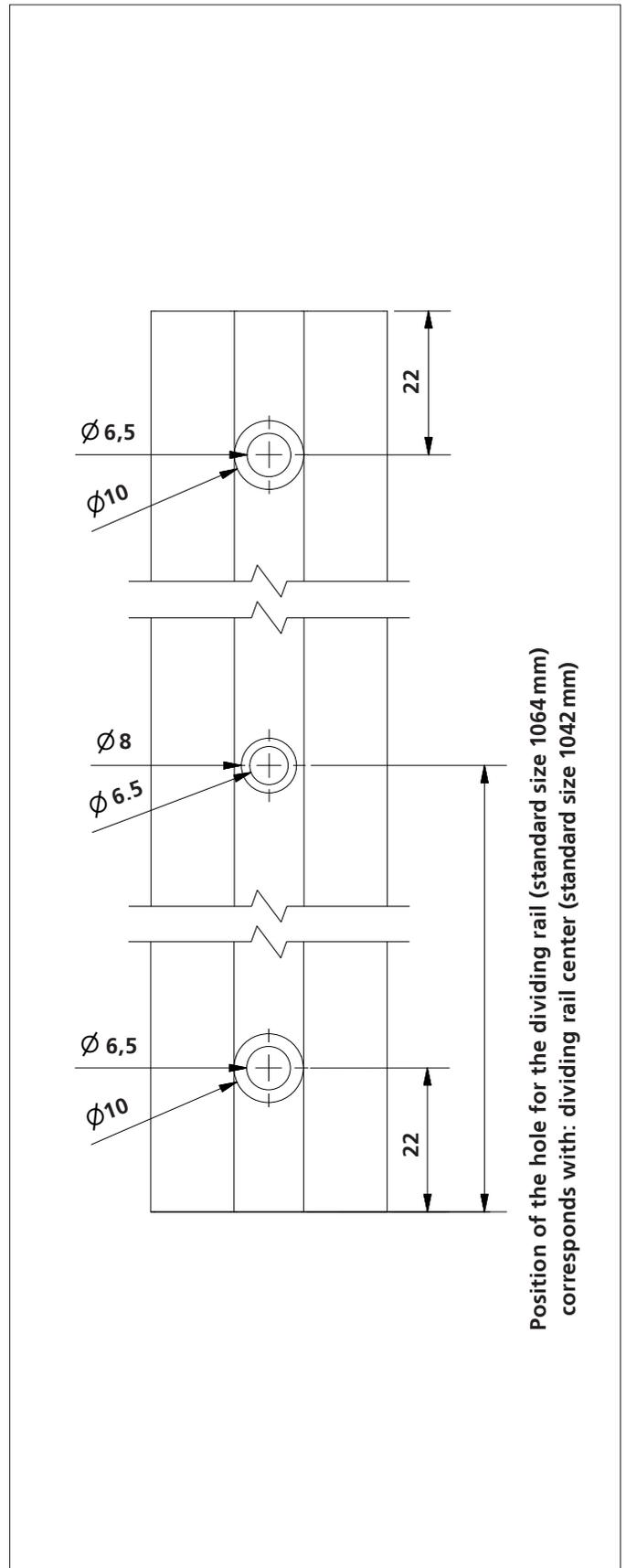
2_ Optional: dividing rail and handle S 800, possible variations.

CUTTING DIMENSION

S 800 SYSTEM AIR



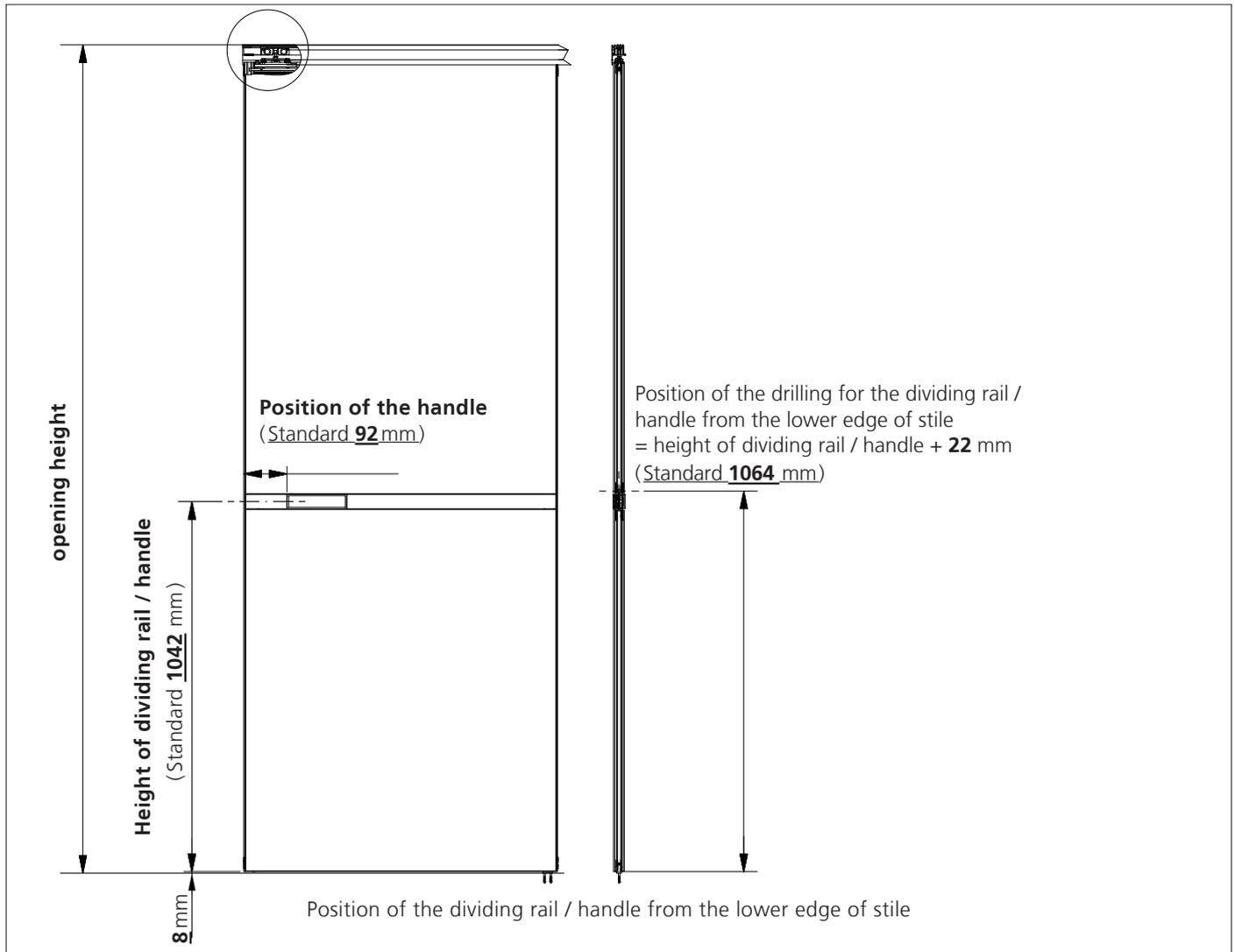
1_ Cross section vertical / cutting dimension.



2_ Drill hole in vertical profile.

CUTTING DIMENSION

DIVIDING RAIL / HANDLE SYSTEM AIR



3_ Position of the dividing rail / handle.

Cutting dimension stabilizing panel 8 mm without dividing rail

Width stabilizing panel **(A) = Door width -52 mm**

Height stabilizing panel **(B) = Door height -57 mm**

Cutting dimension stabilizing panel 8 mm with dividing rail

Width stabilizing panel **(A) = Door width -52 mm**

Height stabilizing panel **(B) = Door height - height of dividing rail / handle -62 mm**

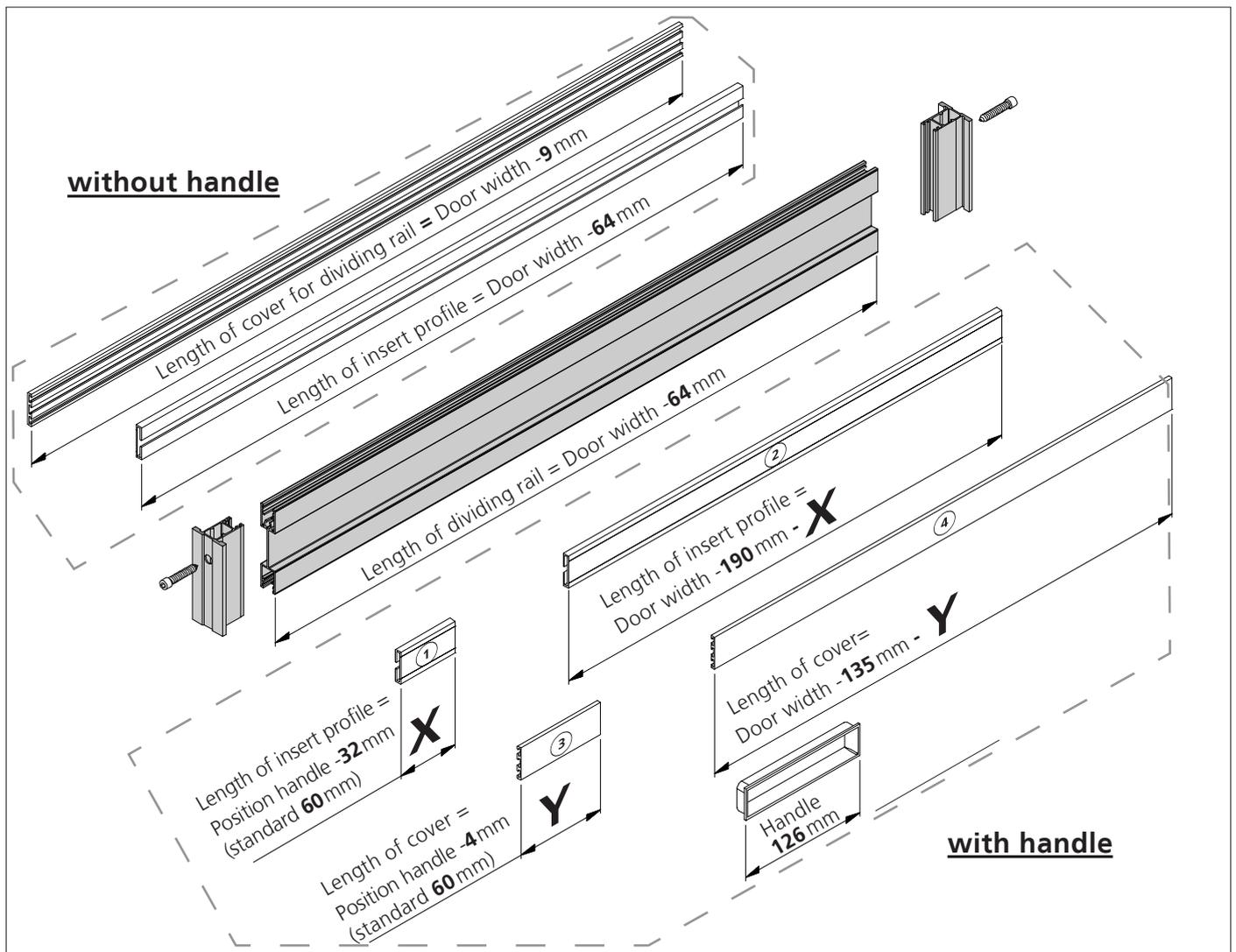
Height stabilizing panel **(C) = Height of dividing rail / handle -62 mm**

(Standard 980 mm)

4_ Cutting dimension stabilizing panel.

CUTTING DIMENSION

DIVIDING RAIL AND HANDLE S800



2_ Cutting dimensions for handle and dividing rail.

Cutting dimensions for glass panel 4 mm without dividing rail

Width glass panel (A) = Door width - 9 mm

Height glass panel (B) = Door height - 5 mm

Cutting dimensions for glass panel 4 mm with dividing rail

Width glass panel (A) = Door width - 9 mm

Height glass panel (B) = Door height - Height of dividing rail / handle - 18 mm

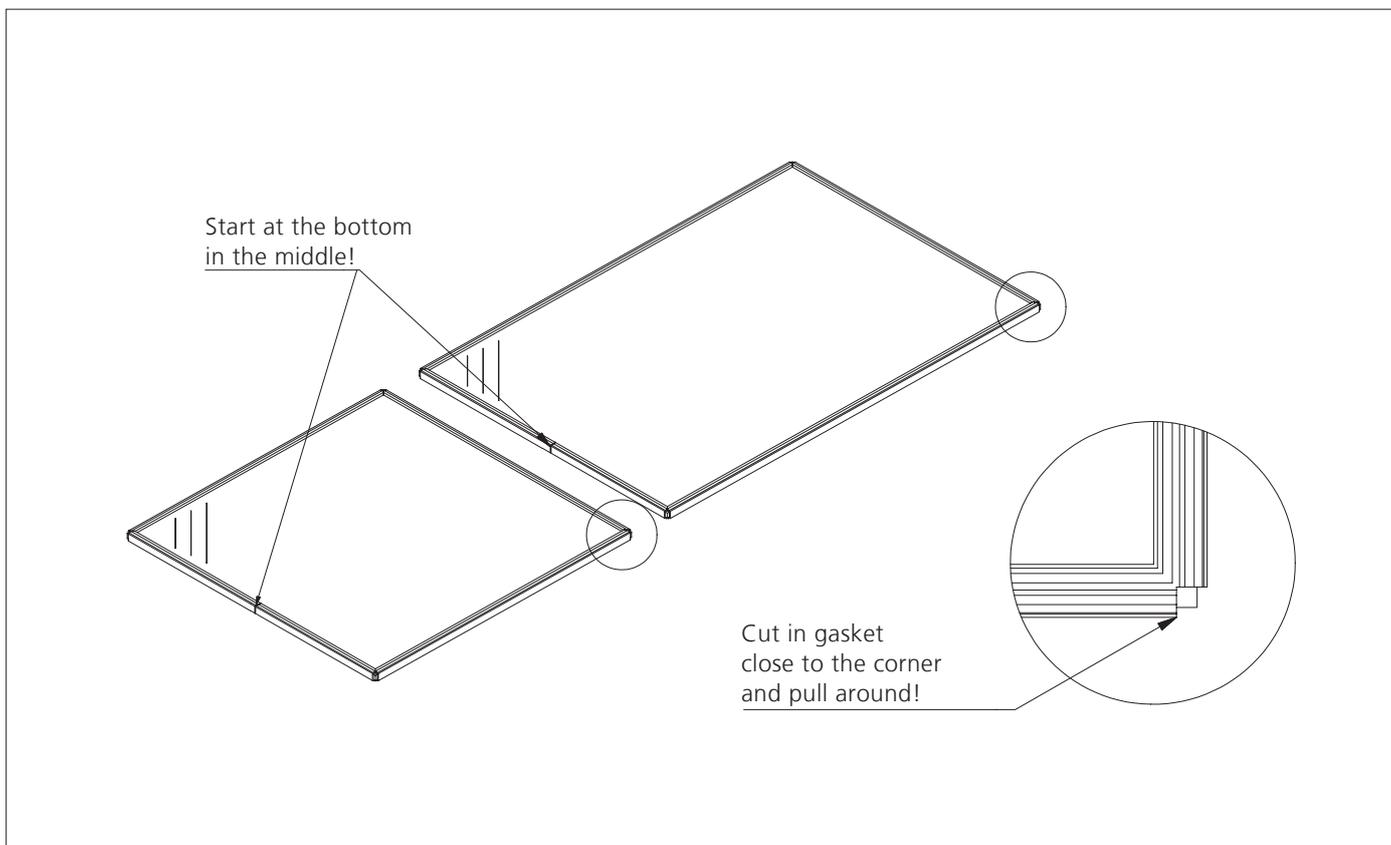
Height glass panel (C) = Height of dividing rail / handle - 18 mm

(Standard 1024 mm)

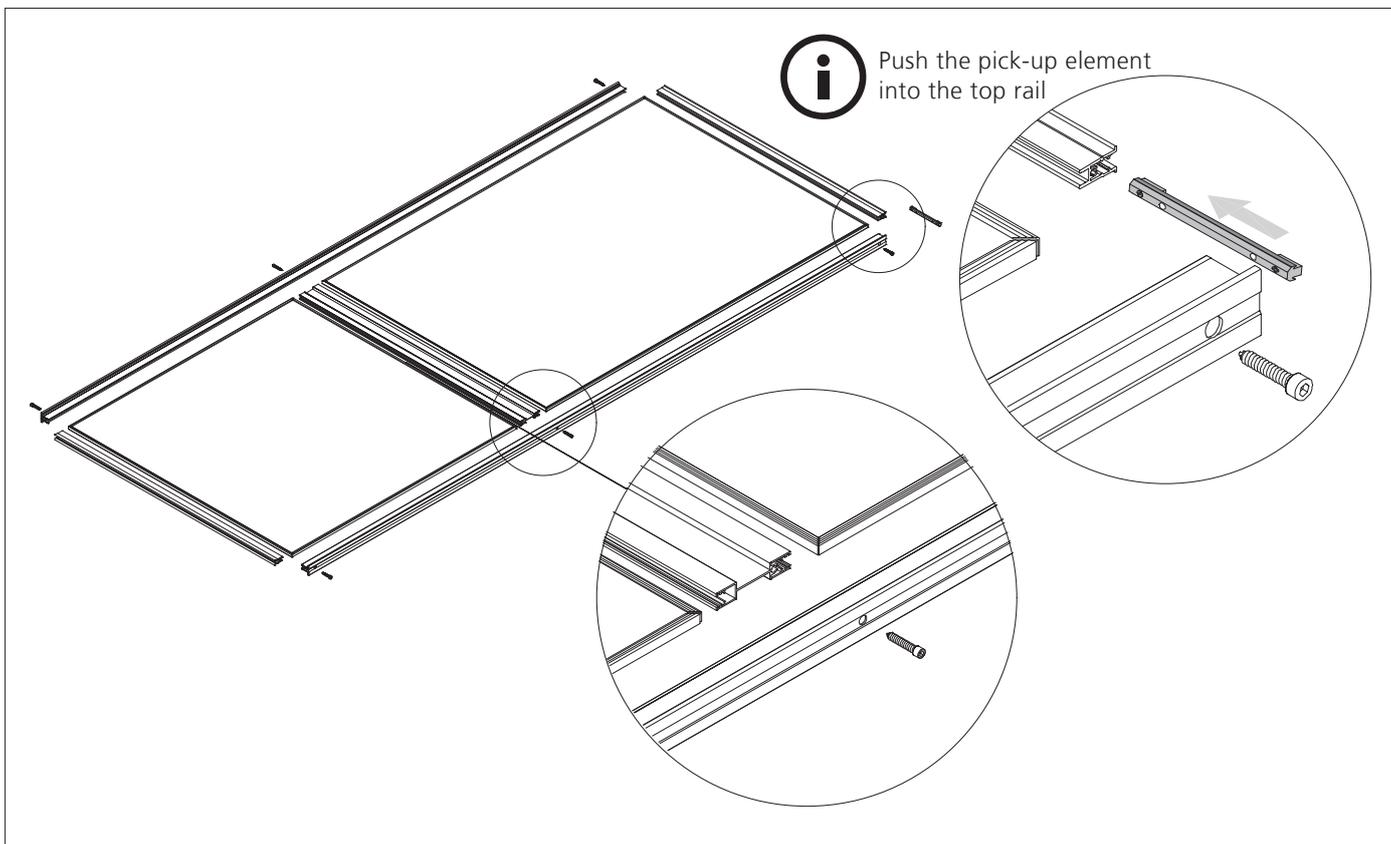
3_ Cutting dimensions for glass panel.

ASSEMBLY INSTRUCTIONS

STABILIZING PANEL



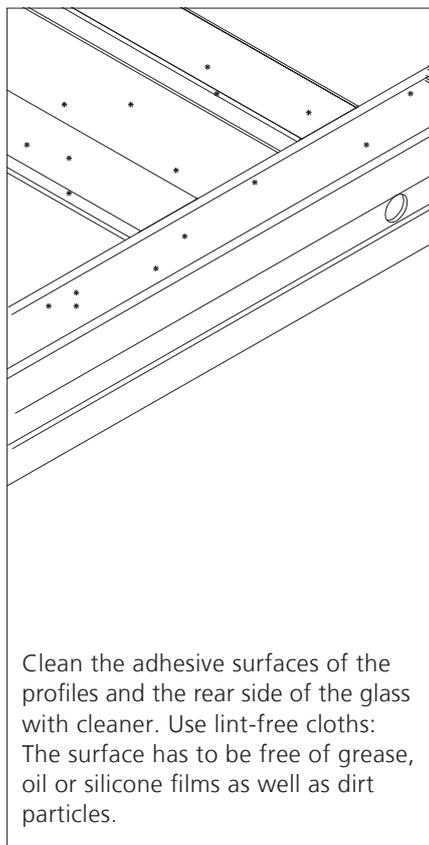
1_ Place panel on a table, affix gasket.



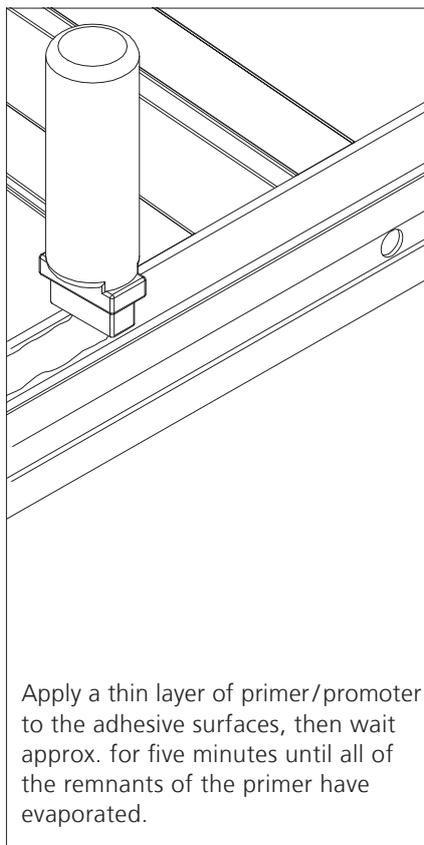
2_ Attach the vertical profile and the cross profiles, pound it well with the rubber hammer.

ASSEMBLY INSTRUCTIONS

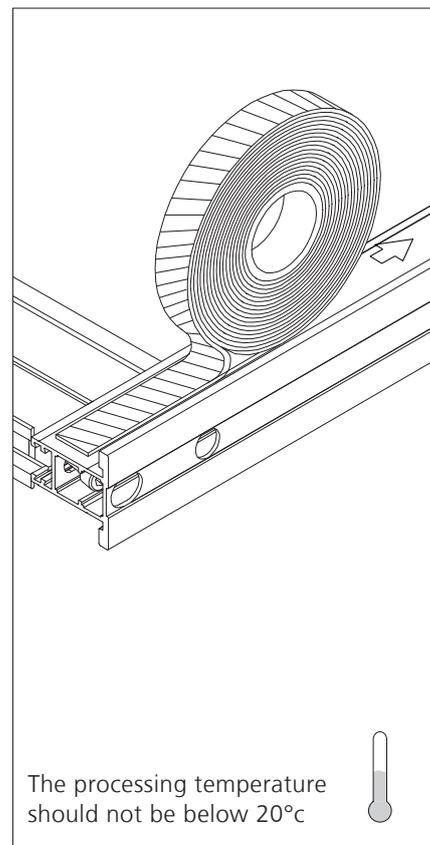
PREPARATION OF ADHESIVE SURFACES



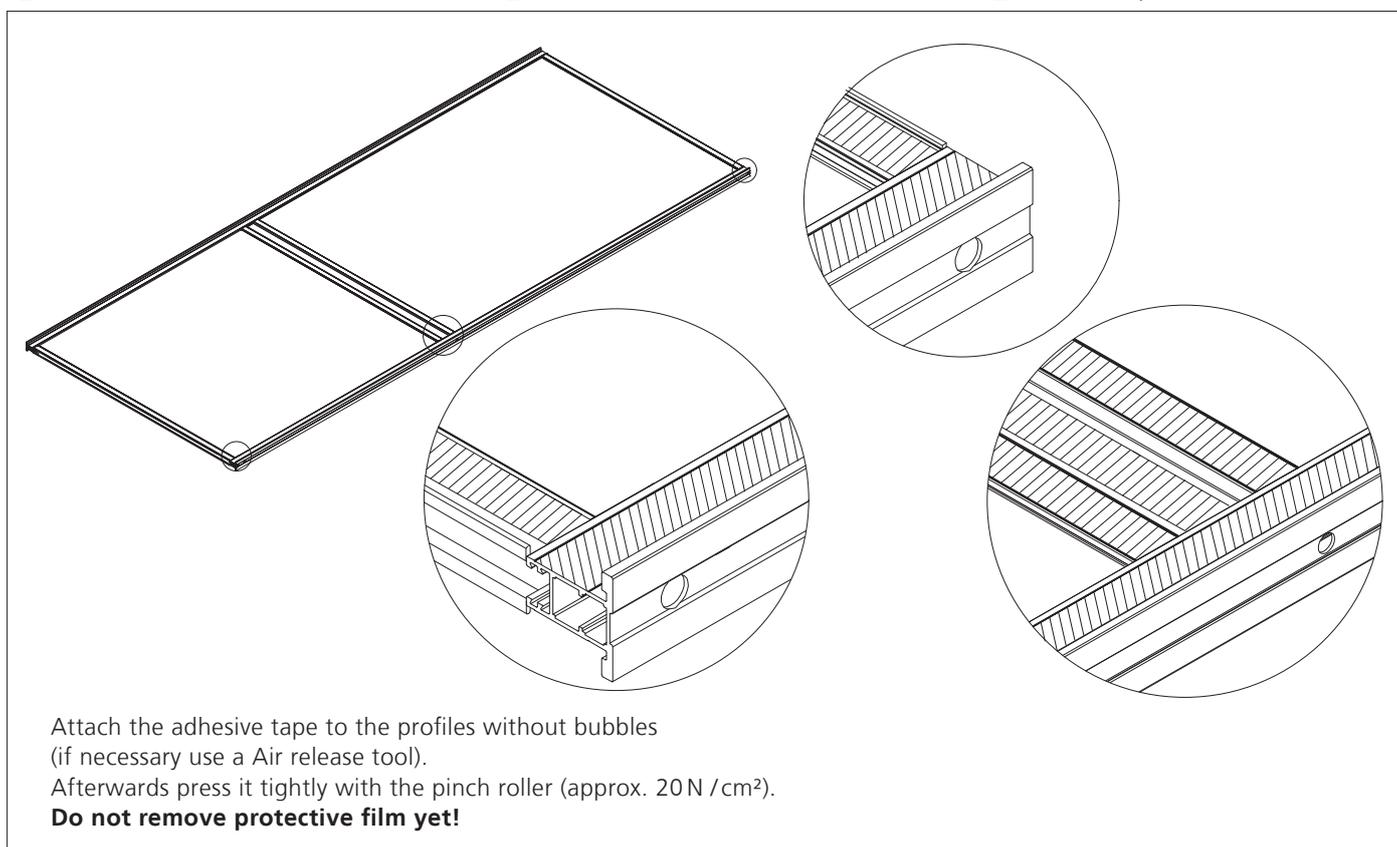
3_ Cleaner



4_ Primer / Promoter



5_ Adhesive tape

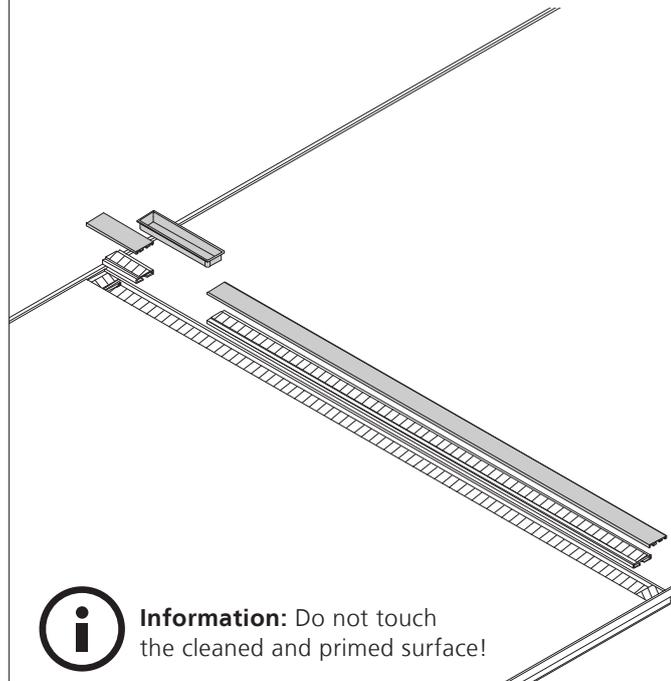


6_ Press on tape.

ASSEMBLY INSTRUCTIONS

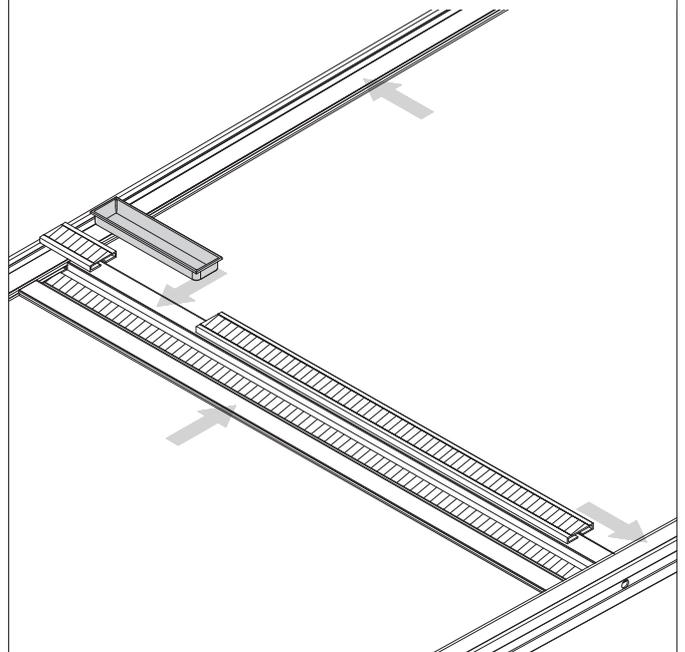
GLUING THE GLASS PANEL

Place the glass panel, insert profile for dividing rail, cover for dividing rail and handle on the frame as a test and if necessary align the frame again.



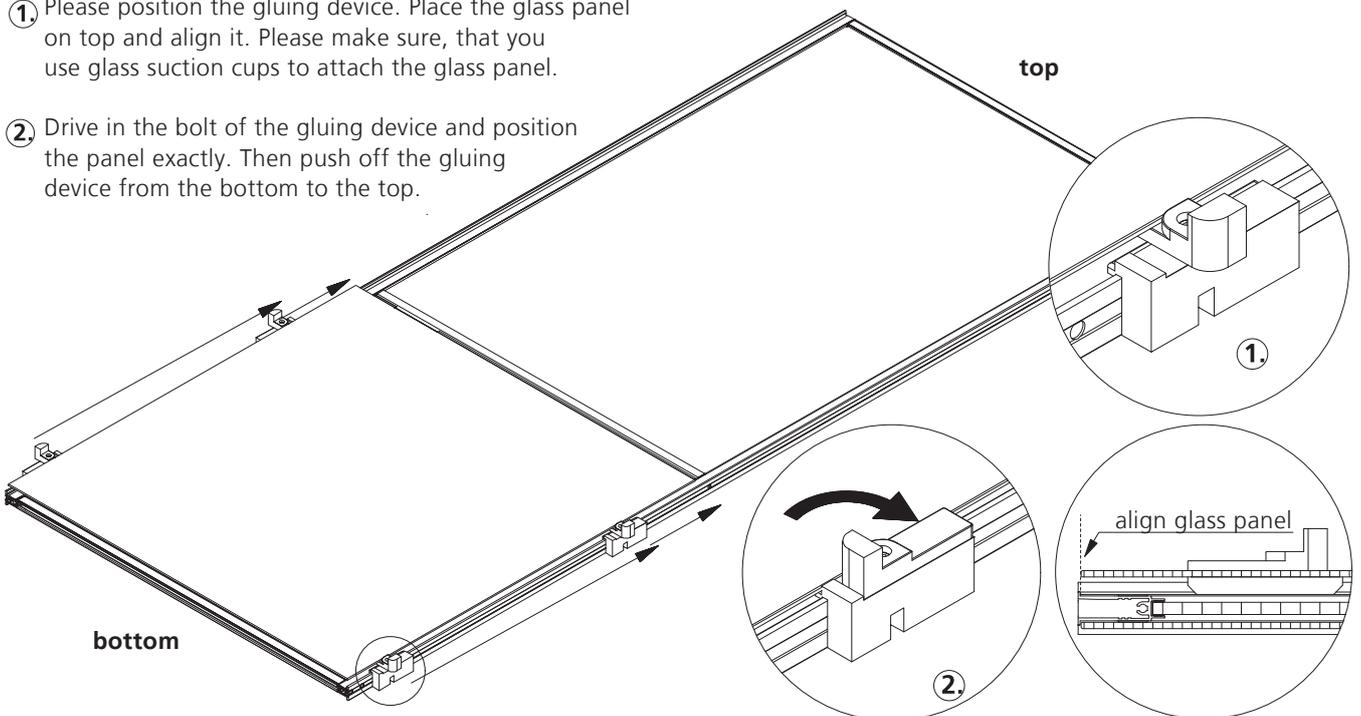
7_ Preparation of gluing.

Clean and prime the adhesive surface, before gluing the glass panel. Remove the protective film from the vertical profile, horizontal bottom and top profile and the dividing rail. **Do not remove** the protective film for **dividing rail, insert profile, cover and handle!**



8_ Preparation of gluing.

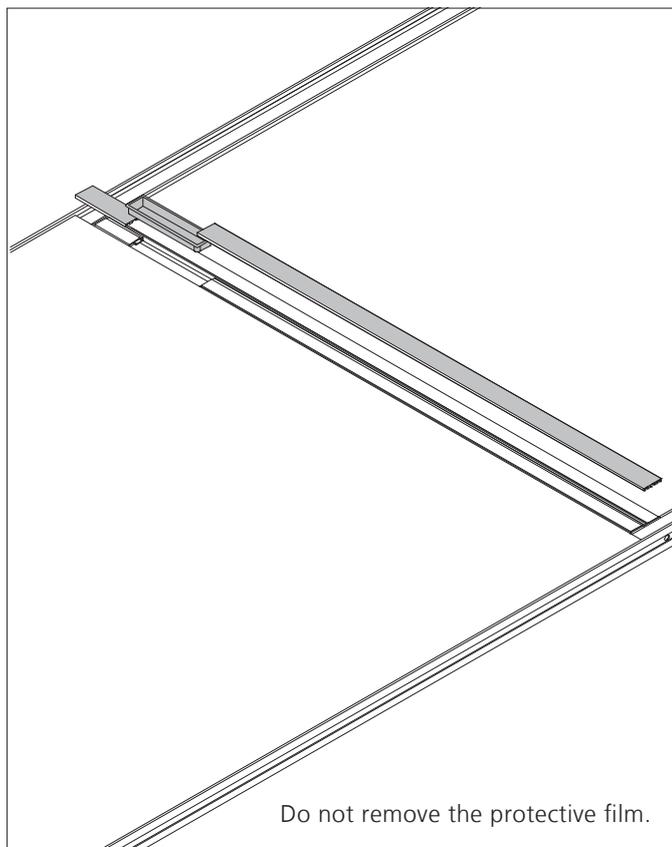
1. Please position the gluing device. Place the glass panel on top and align it. Please make sure, that you use glass suction cups to attach the glass panel.
2. Drive in the bolt of the gluing device and position the panel exactly. Then push off the gluing device from the bottom to the top.



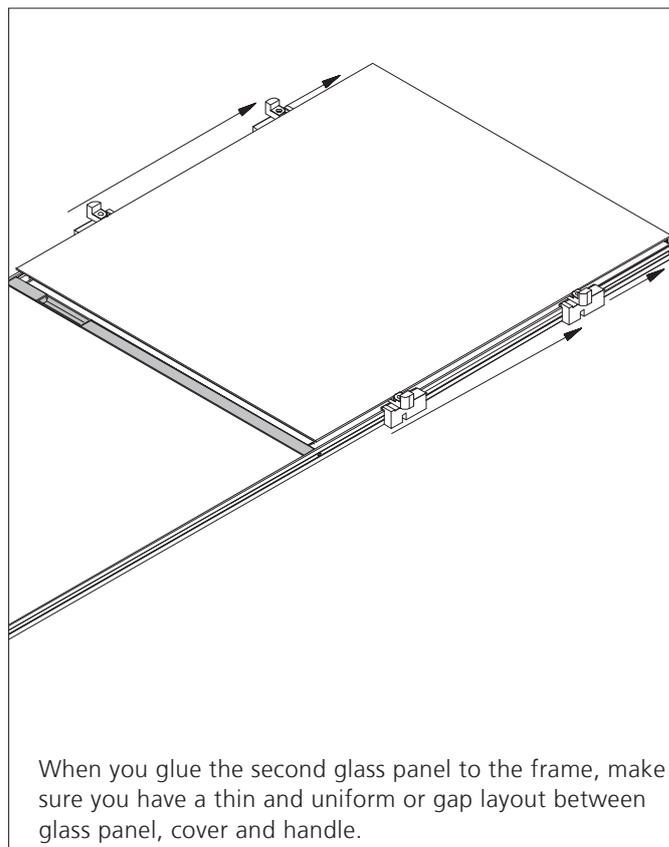
9_ Perform this workstep by two persons / Precision work is very important!.

ASSEMBLY INSTRUCTIONS

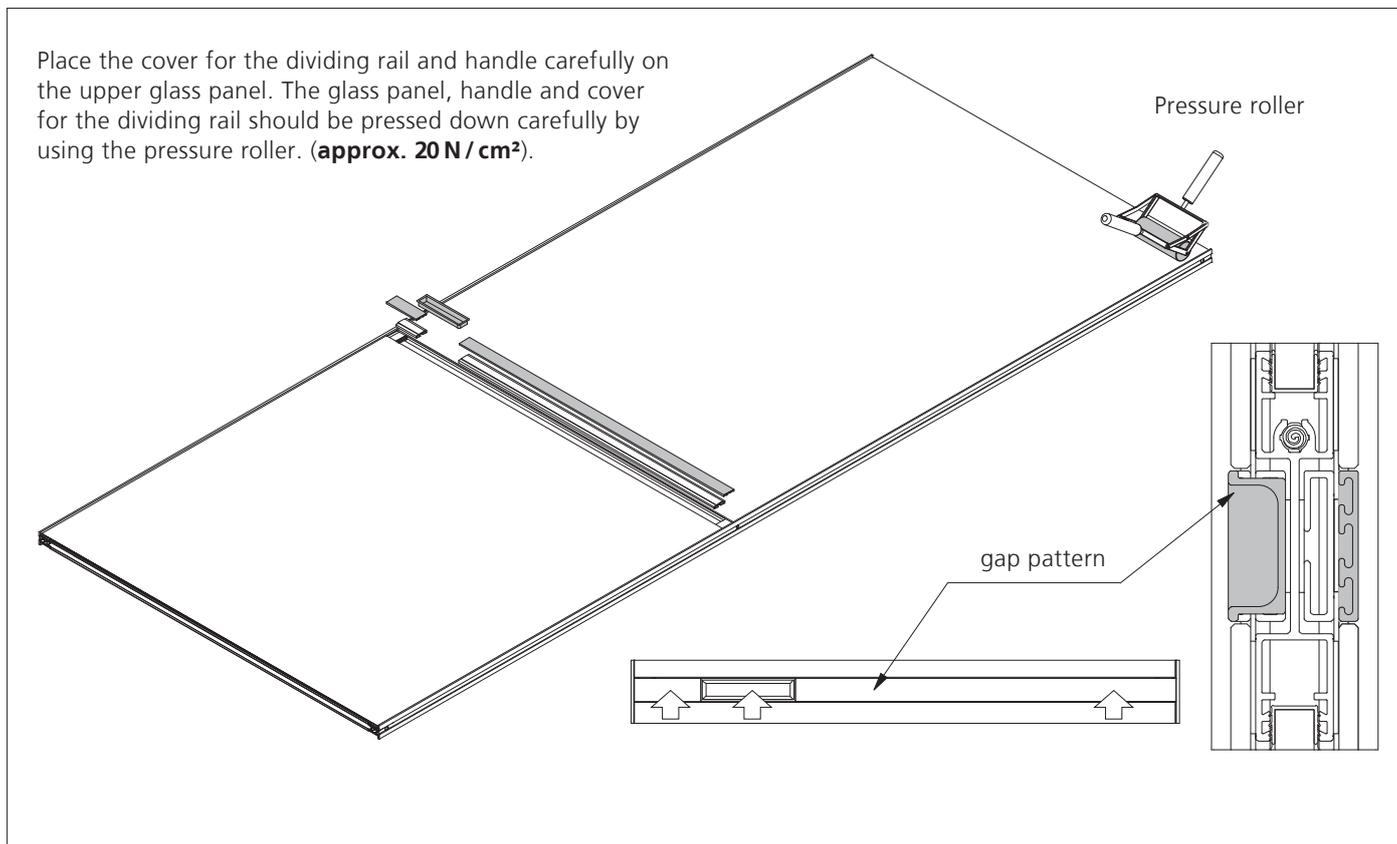
INSERT DIVIDING RAIL AND HANDLE



10_ Insert the insert profile, cover and the handle.

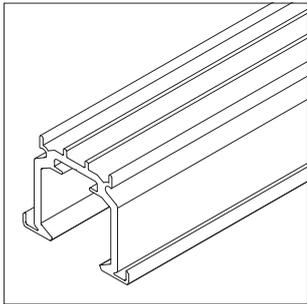


11_ Glue the second glass panel.

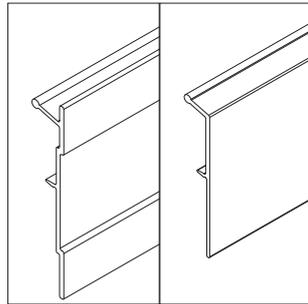


12_ Use the insert profile for dividing rail, cover for dividing rail and the handle.

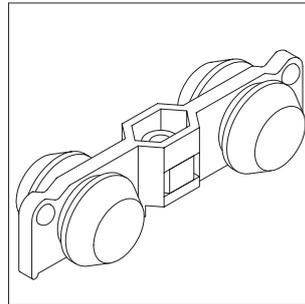
ACCESSORIES



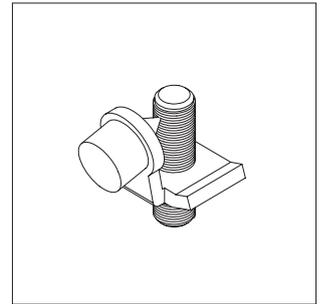
1_ 17.55.020



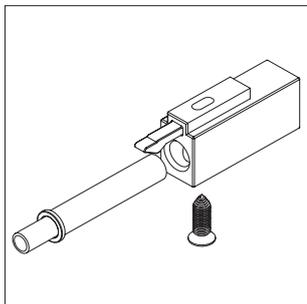
2_ 14.50.0xx / 14.53.0xx



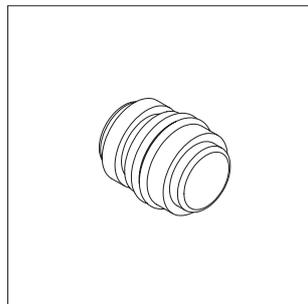
3_ 10.06.200



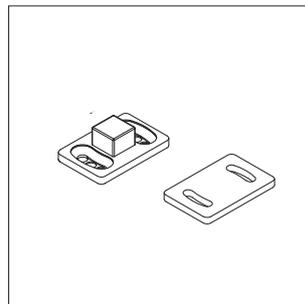
4_ 10.05.060



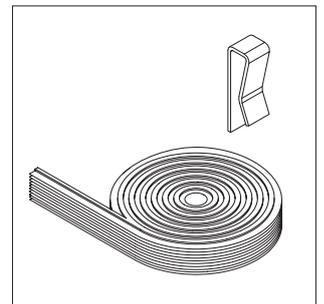
5_ 10.05.017



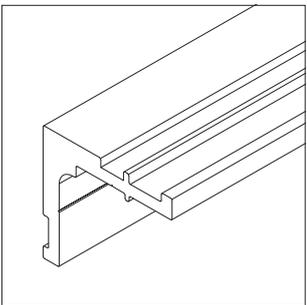
6_ 10.05.030



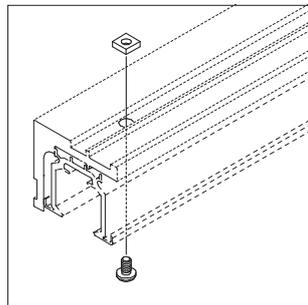
7_ 10.05.047 / 10.05.048



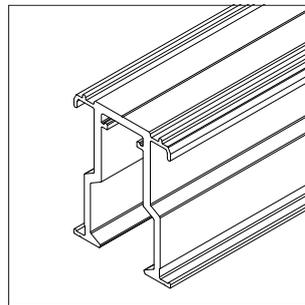
8_ 10.07.02x / 10.01.039



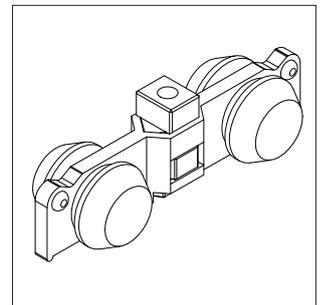
9_ 17.54.020



10_ 10.07.089 / 10.07.088



11_ 17.56.020



12_ 10.06.300

1_ Top track insert for AIR S34 SDB

2_ Cover for insert profile AIR

Cover/middle insert profile AIR

3_ Top roller AIR

4_ Stopper for top roller AIR w/o brake

5_ Stopper for top roller AIR

6_ Brake for top roller AIR

7_ Bottom guiding 12 mm AIR, gray /

distance plate for guiding

8_ Dust excluding brush / bracket for dust excluding brush

9_ Wall conn. profile S34 AIR

10_ Nut for wall conn. profile / screw for wall conn. profile

11_ Top track ins. for AIR S34 SDB

12_ Top roller SDB AIR

without illustration:

13_ Cover profile, 80 mm AIR SDB (14.52.0xx)

14_ Cover/mid.ins.prof.air 80 mm SDB (14.59.0xx)

15_ Allen screw M3x5 (10.06.350)

16_ Sliding door brake AIR (10.06.365)

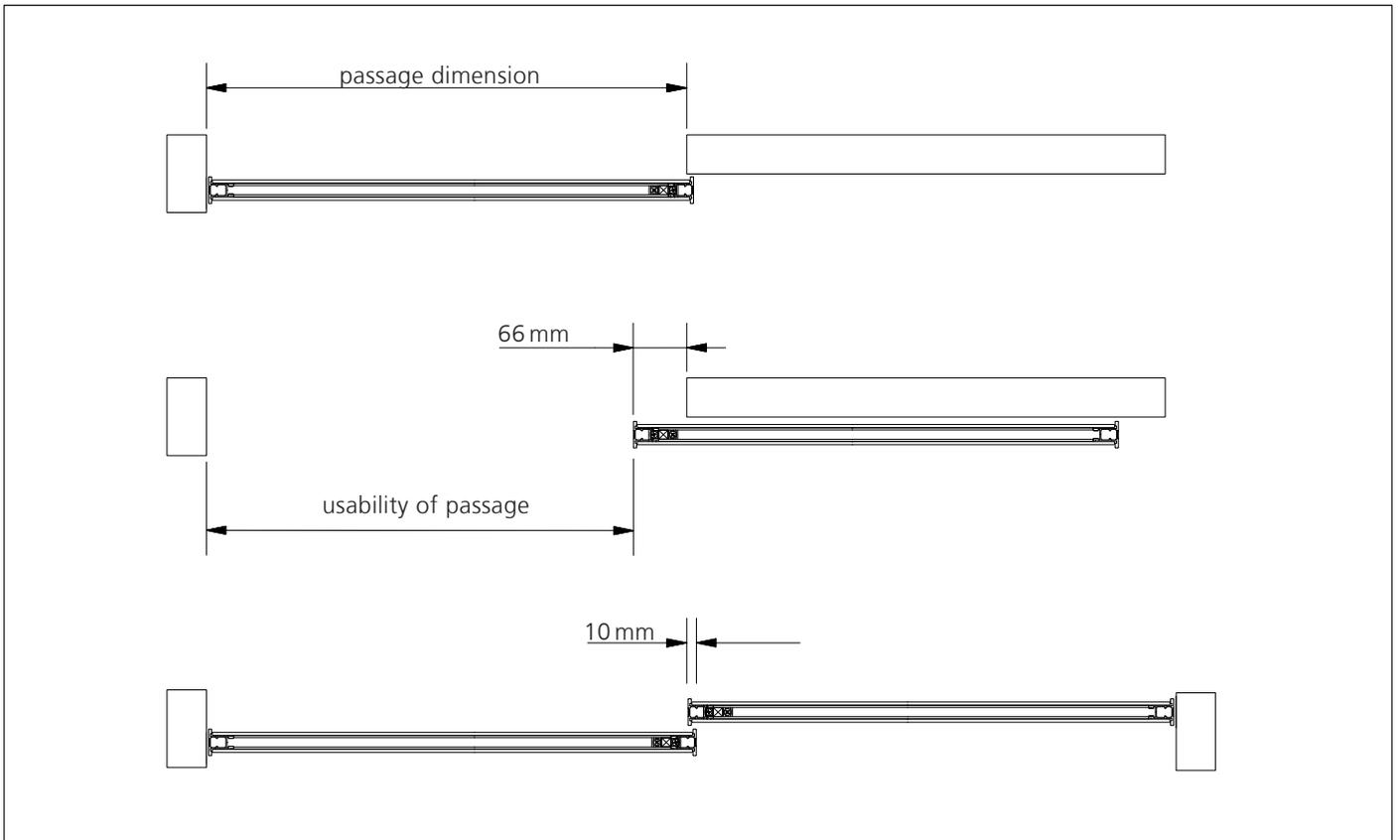
17_ Stopper for top roller with (10.06.360)

Sliding door brake

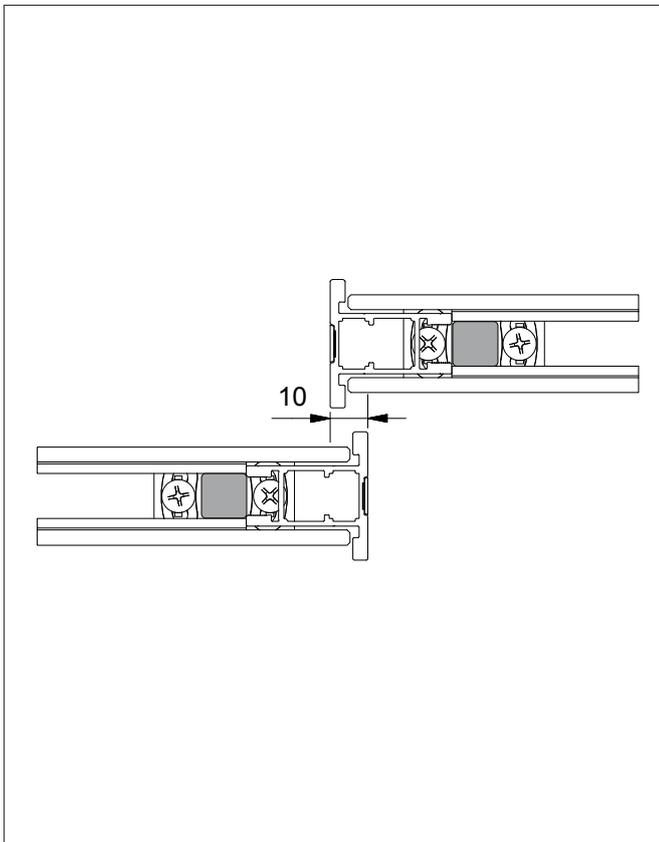
18_ Plugs for punching holes (10.07.05x)

DETAIL DRAWING

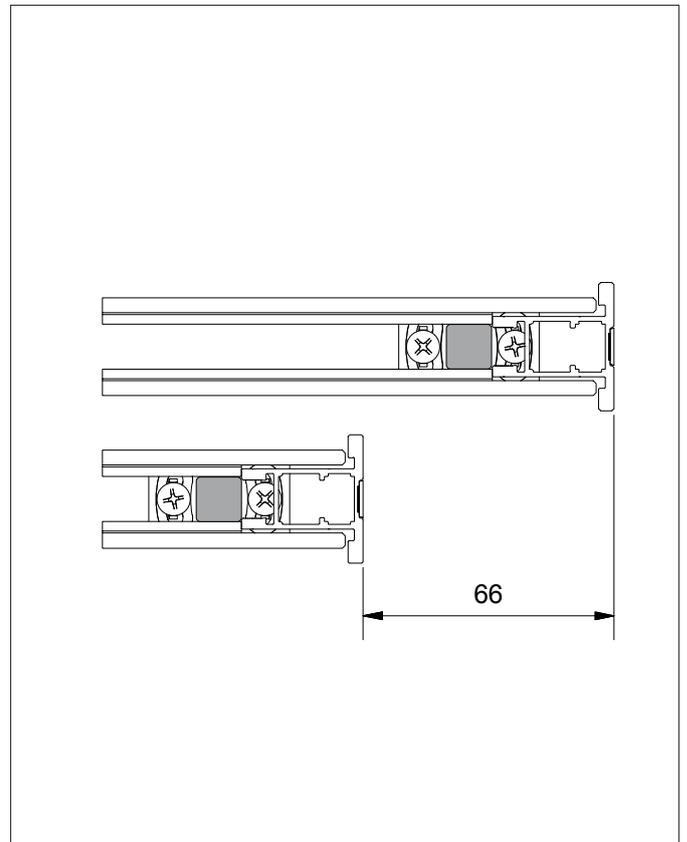
HORIZONTAL SECTION



1_ Overlapping S 800.



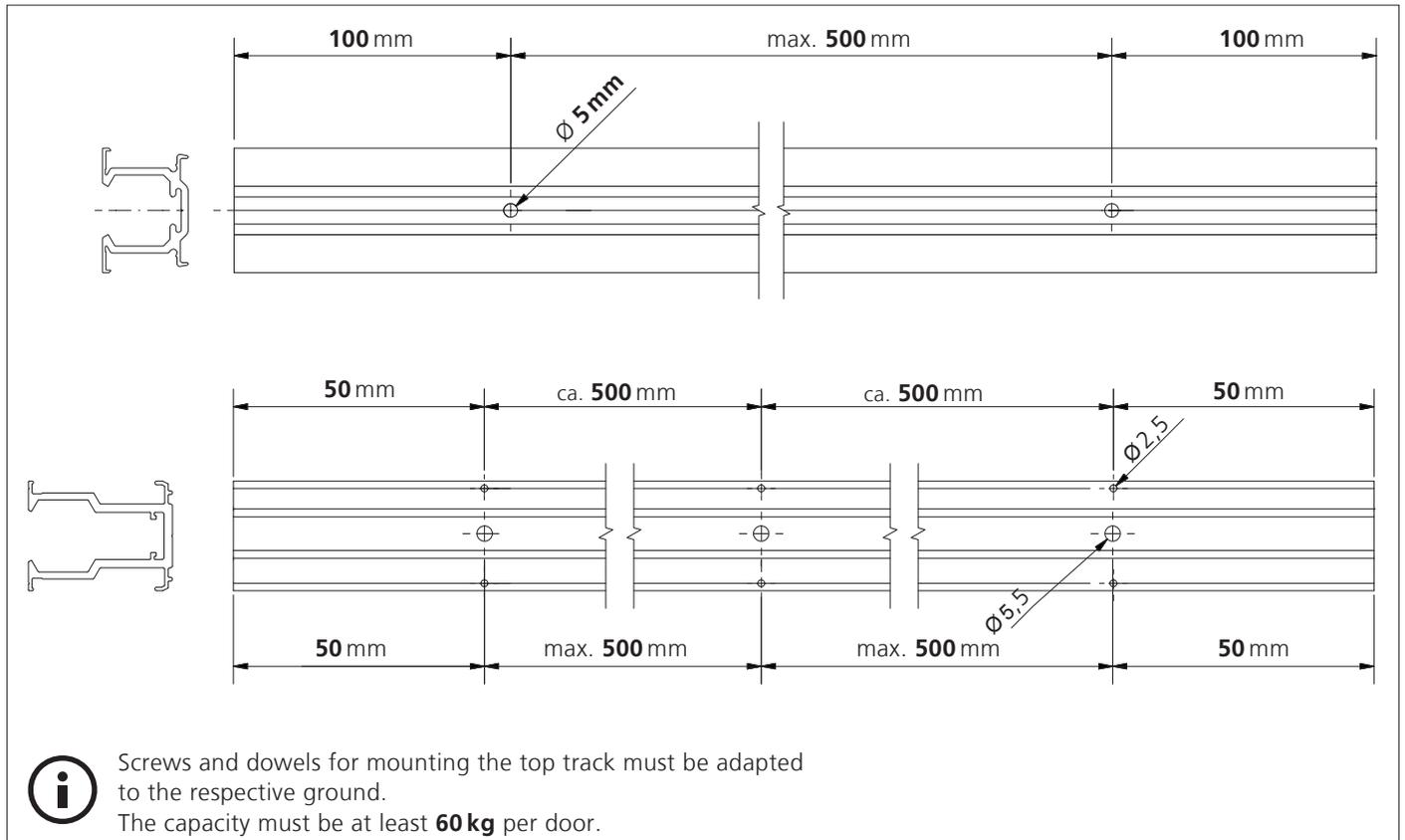
2_ Overlapping S 800.



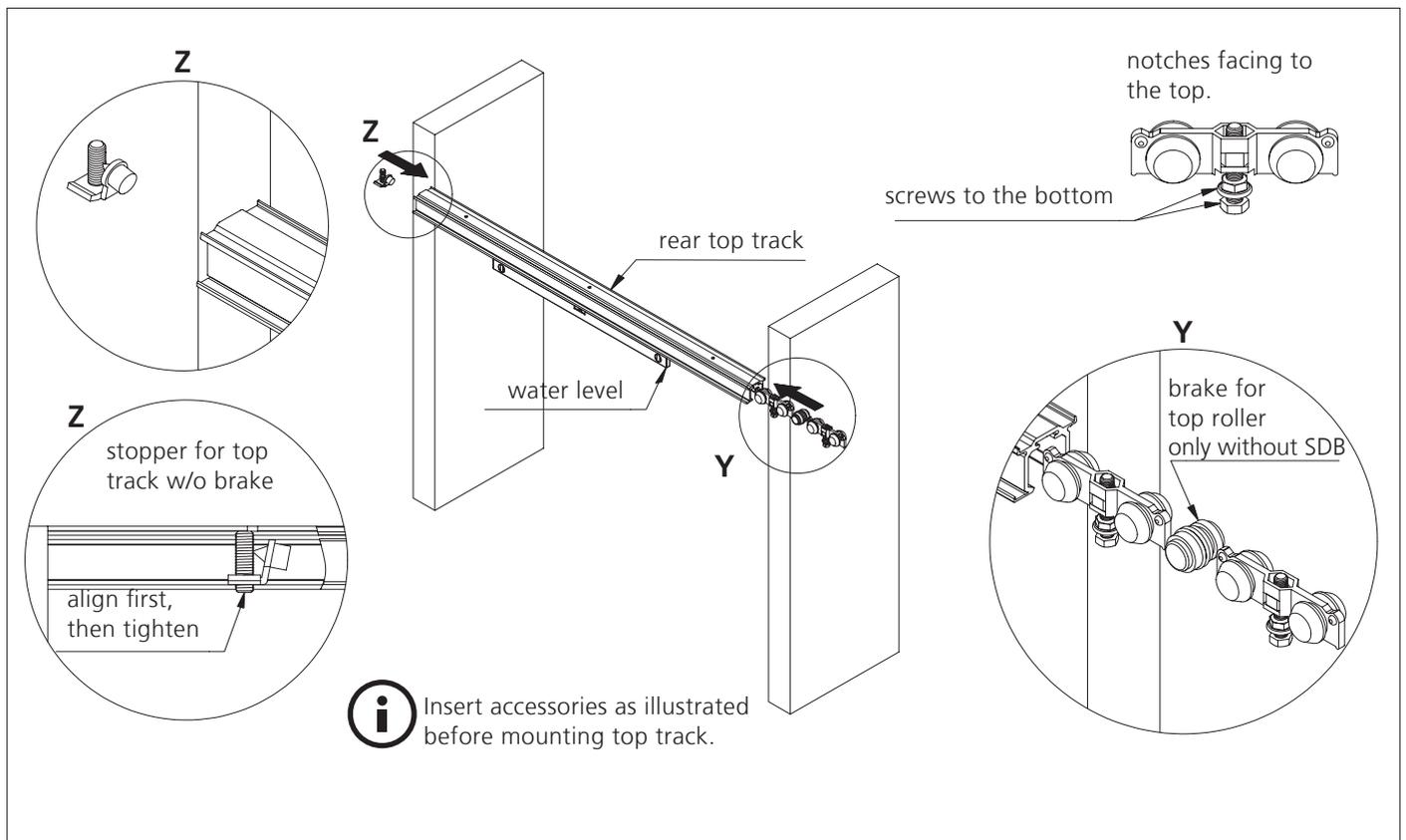
3_ Opening restriction S 800 AIR.

INSTALLATION INSTRUCTION

TOP TRACK



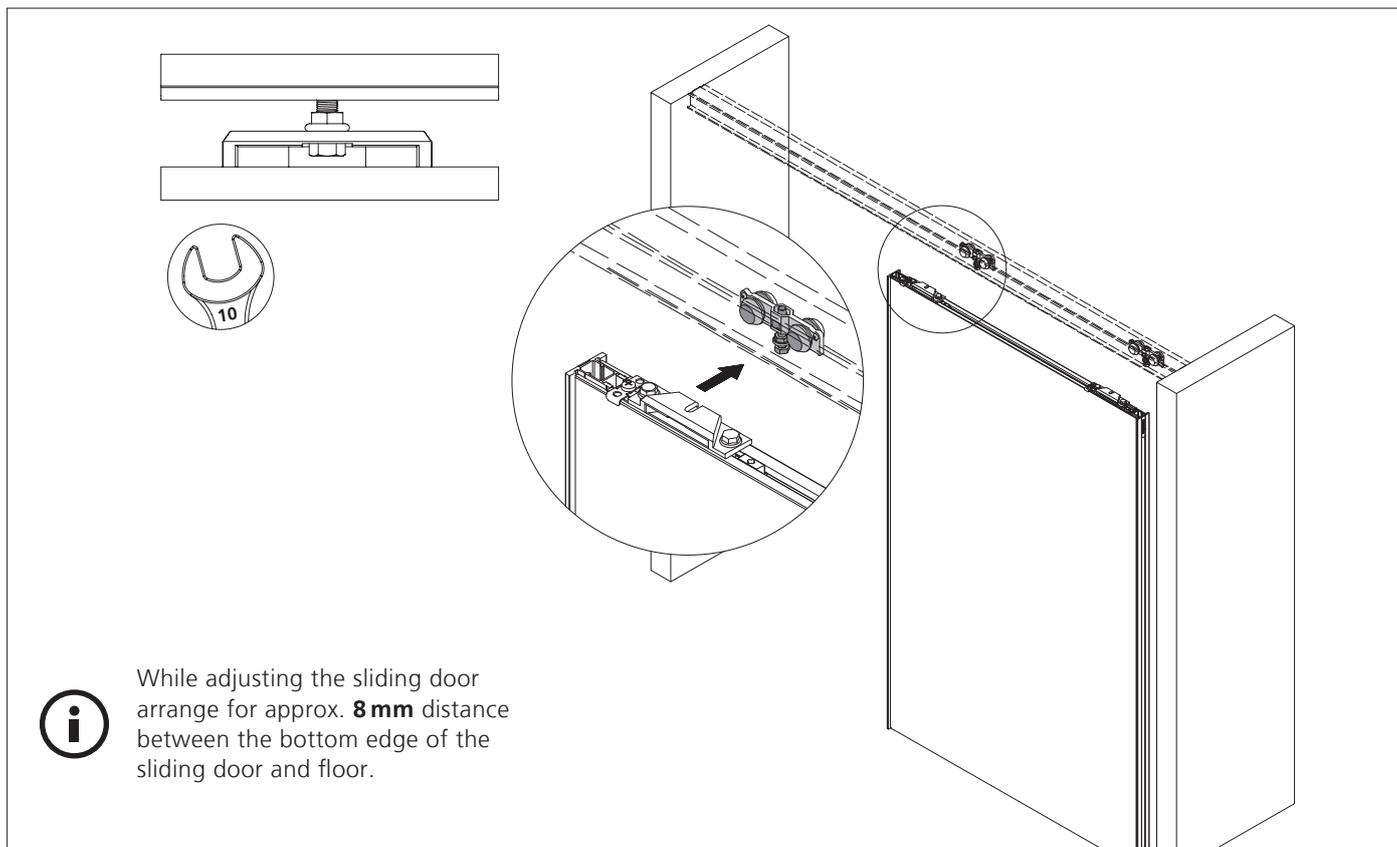
1_ Cut cover for top track, middle insert profile and top track to size, drill holes in top track.



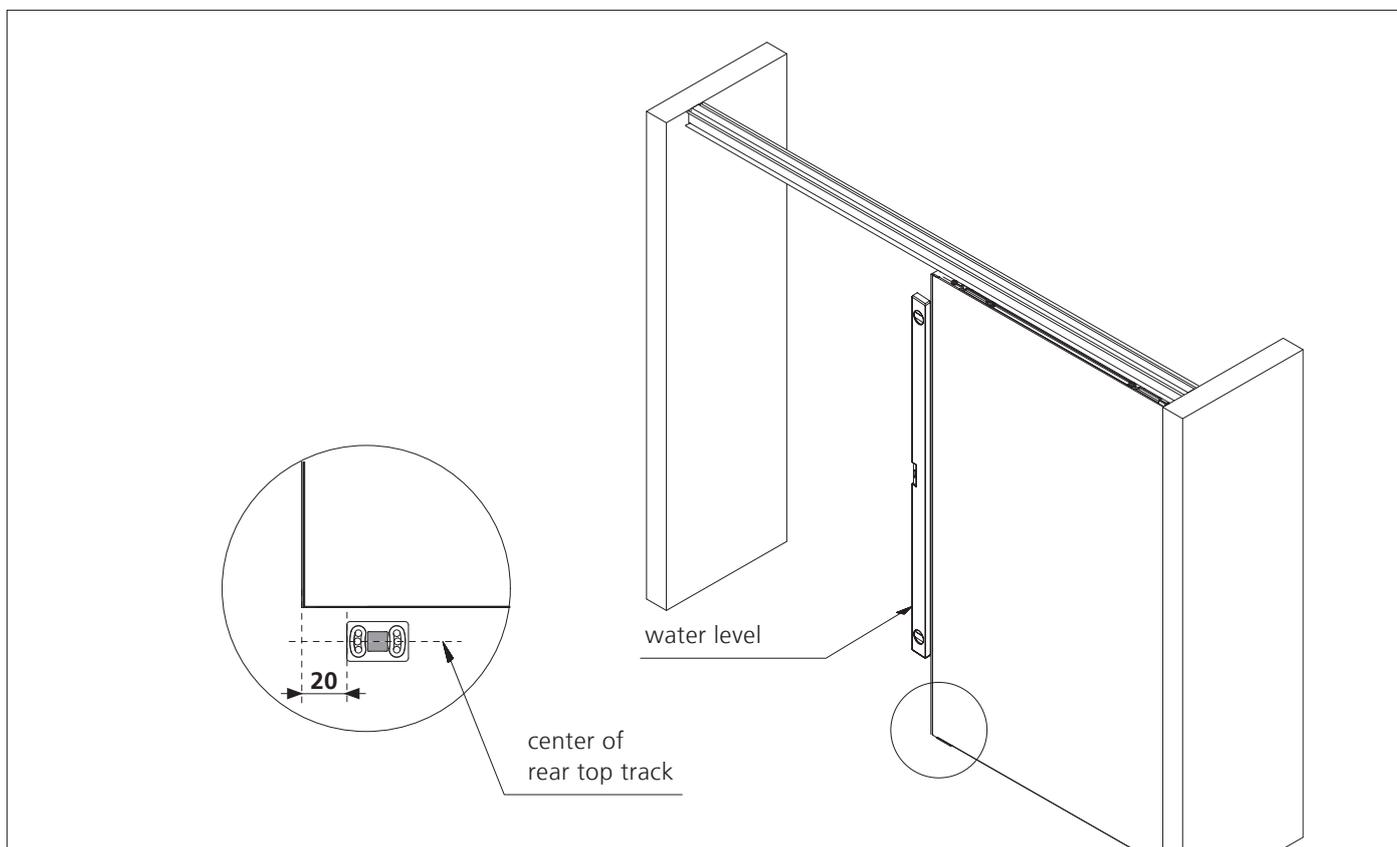
2_ Drill holes in ceiling / top of corpus and mount the rear top track horizontally (fig. w/o ceiling / corpus).

INSTALLATION INSTRUCTION

ADJUST SLIDING DOOR / BOTTOM GUIDING



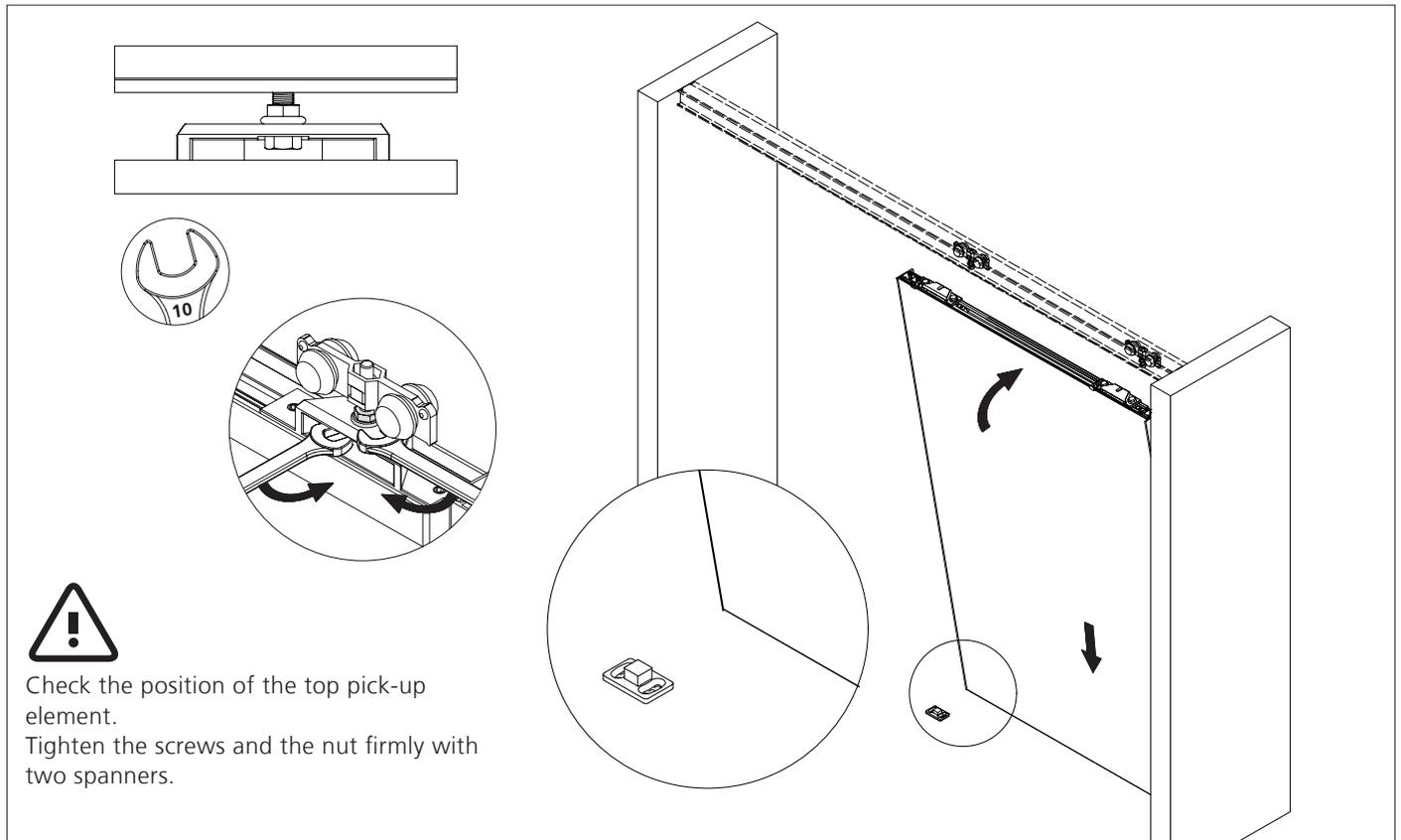
1_ Hinge the rear sliding door and adjust perpendicularly with the set screws - do not tighten yet.



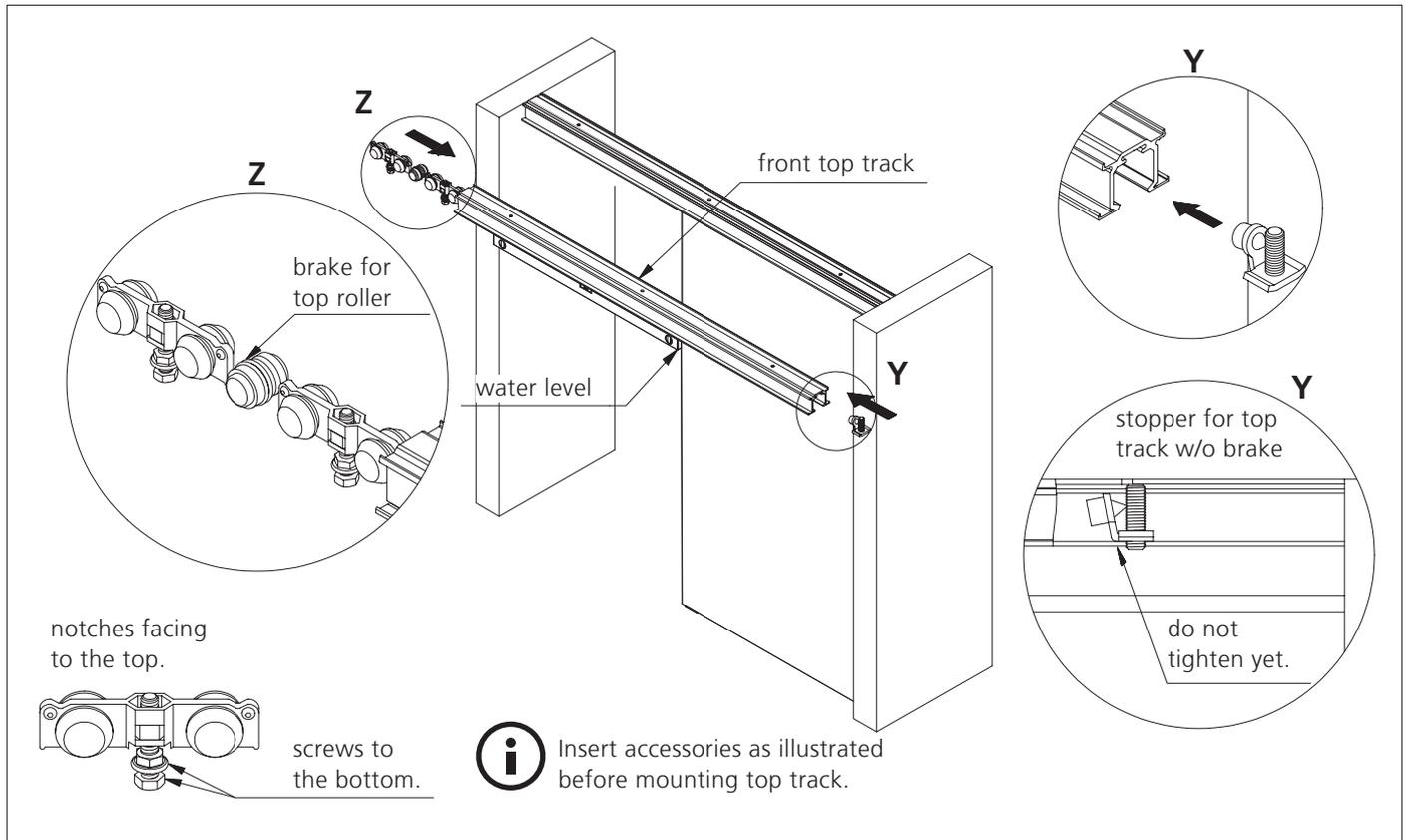
2_ Mark position of ground plate (masking tape/pencil), unhinge rear sliding door and mount ground plate.

INSTALLATION INSTRUCTION

BOTTOM GUIDING / SECOND TOP TRACK



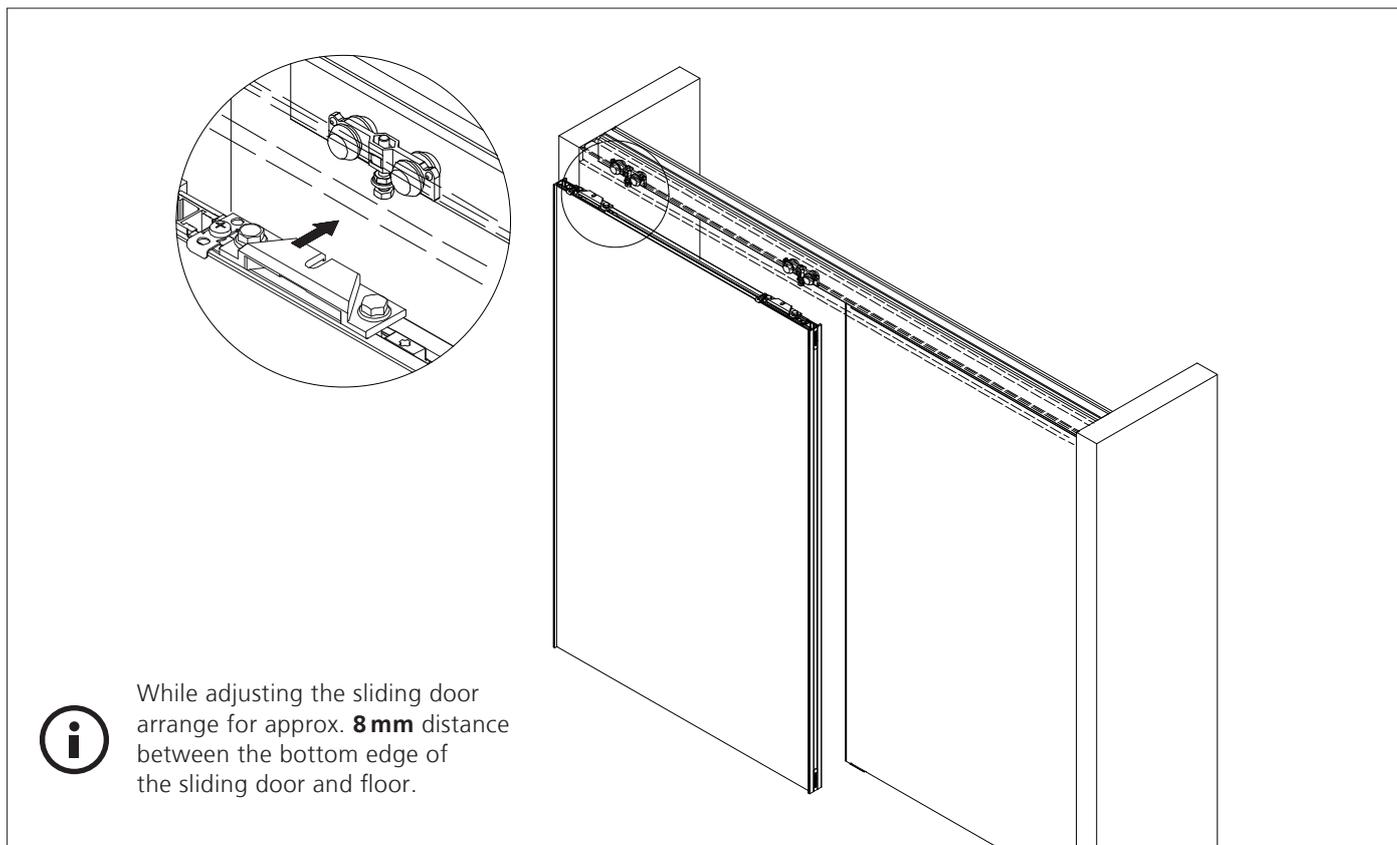
1_ Install rear sliding door, then tighten the counter nuts at the top pick-up elements.



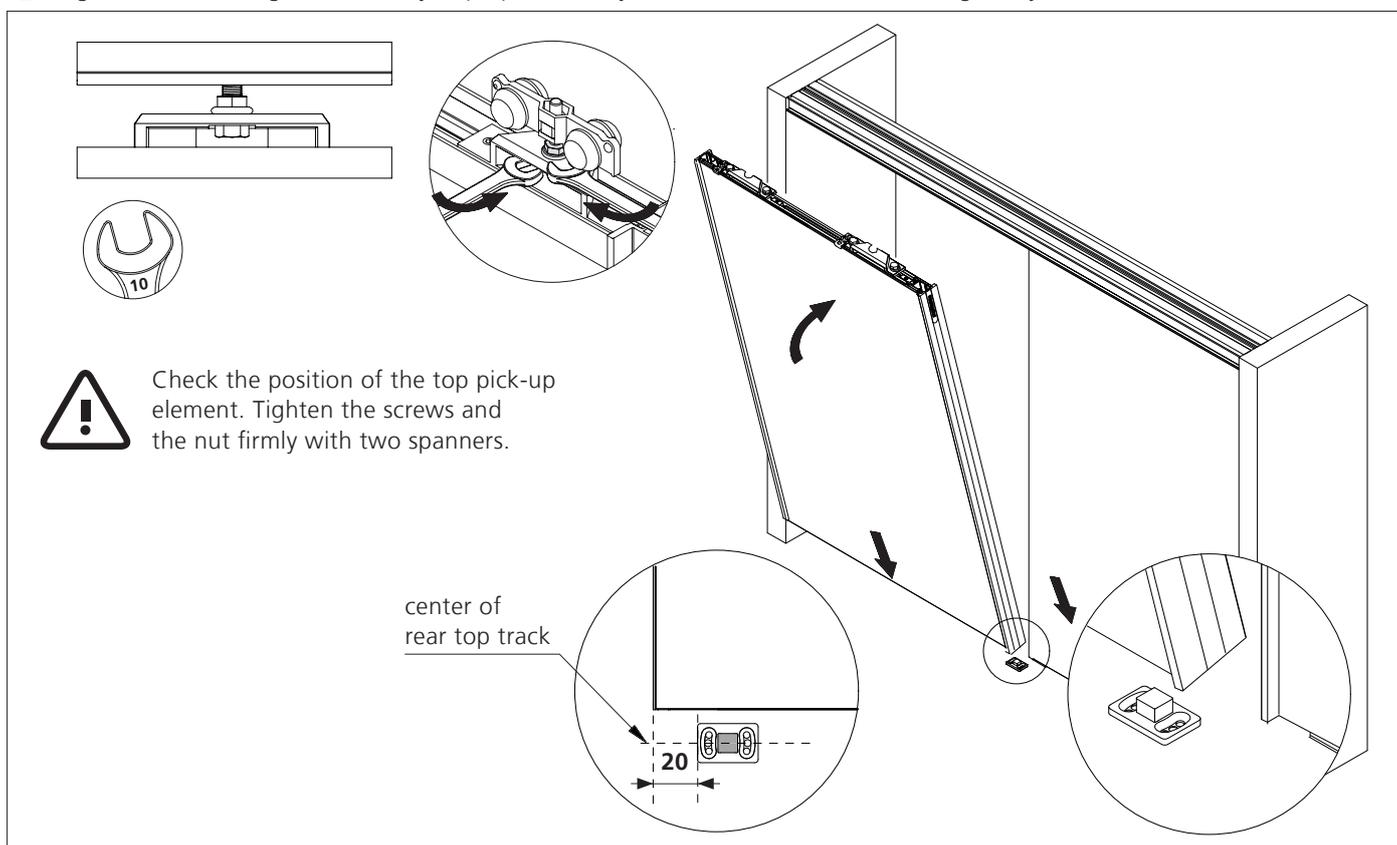
2_ Drill holes in ceiling/top of corpus and mount front top track horizontally (fig. w/o ceiling/corpus).

INSTALLATION INSTRUCTION

SECOND TOP TRACK



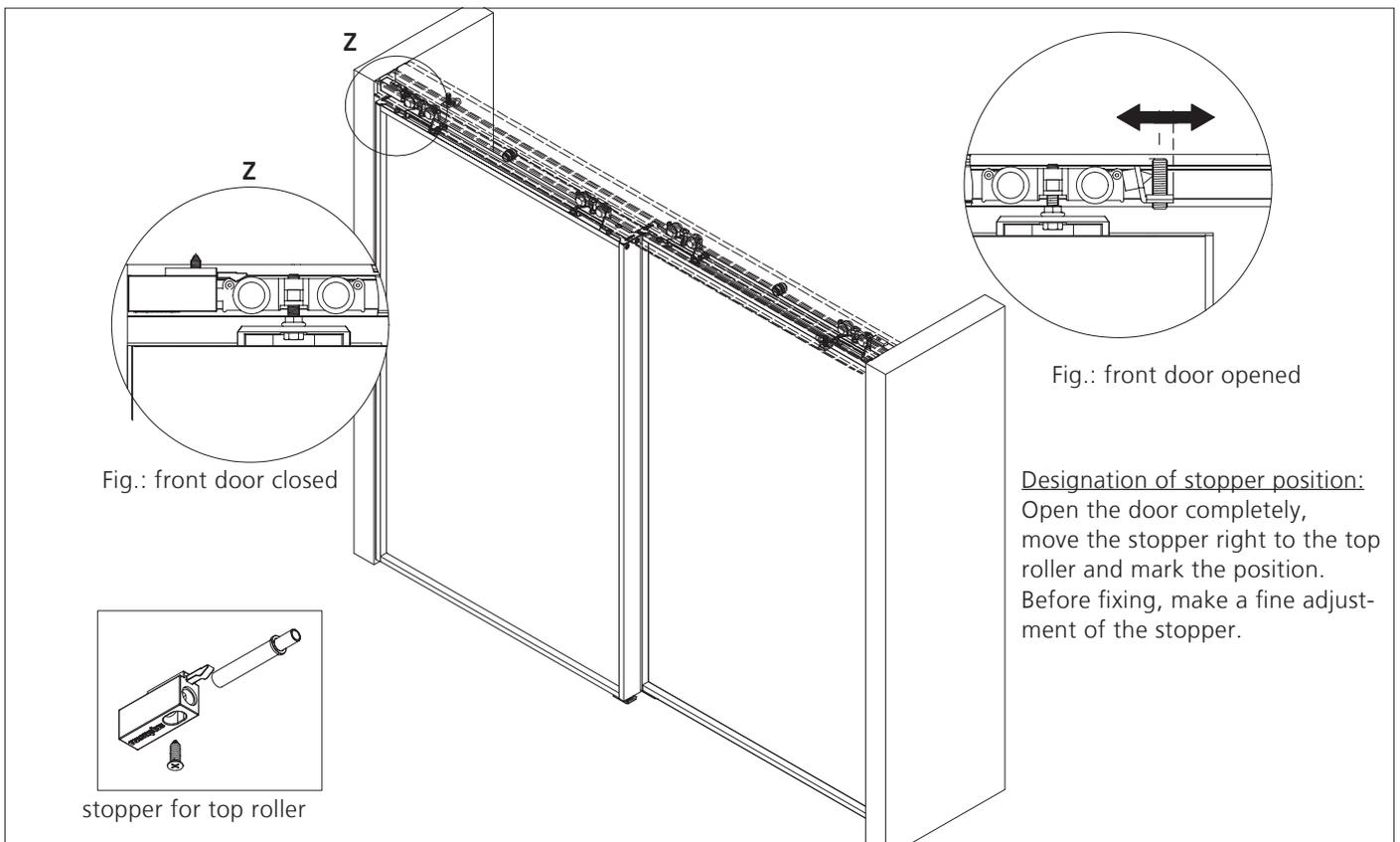
2_ Hinge the front sliding door and adjust perpendicularly with the set screws - do not tighten yet.



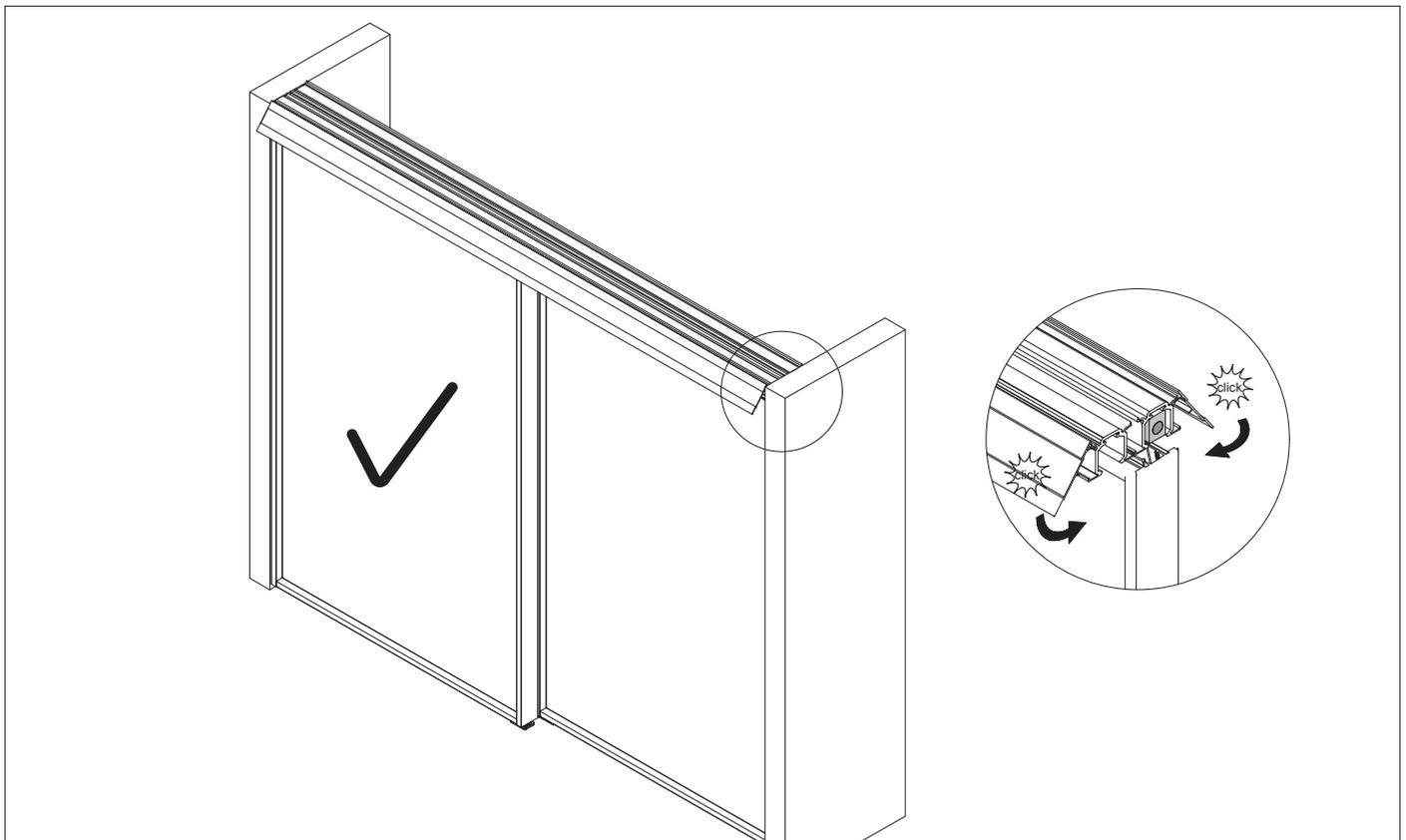
2_ Install front sliding door, then tighten the counternuts at the top pick-up elements.

INSTALLATION INSTRUCTION

STOPPER POSITION



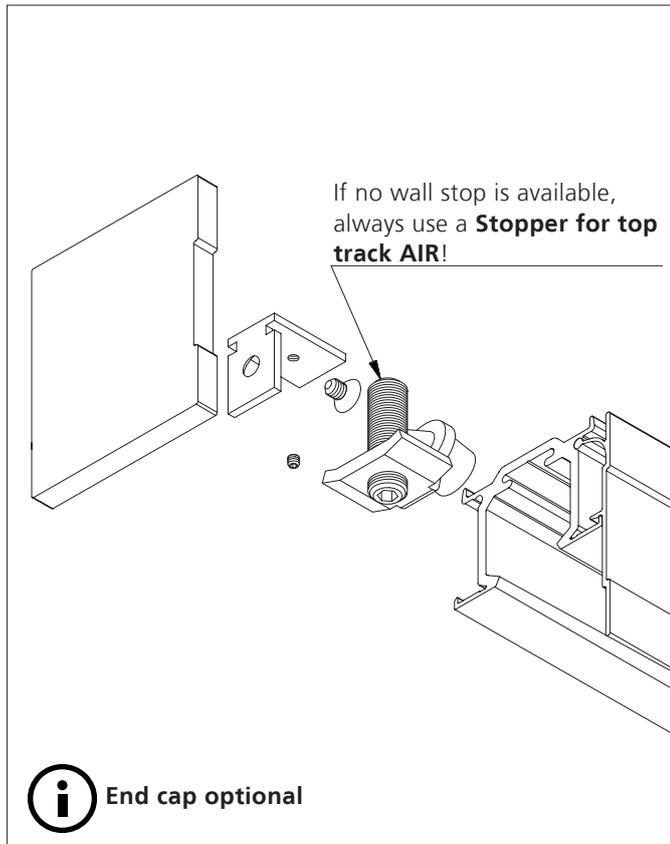
1_ Mount stopper for top roller with door brake AIR in both top track inserts at closing positions.



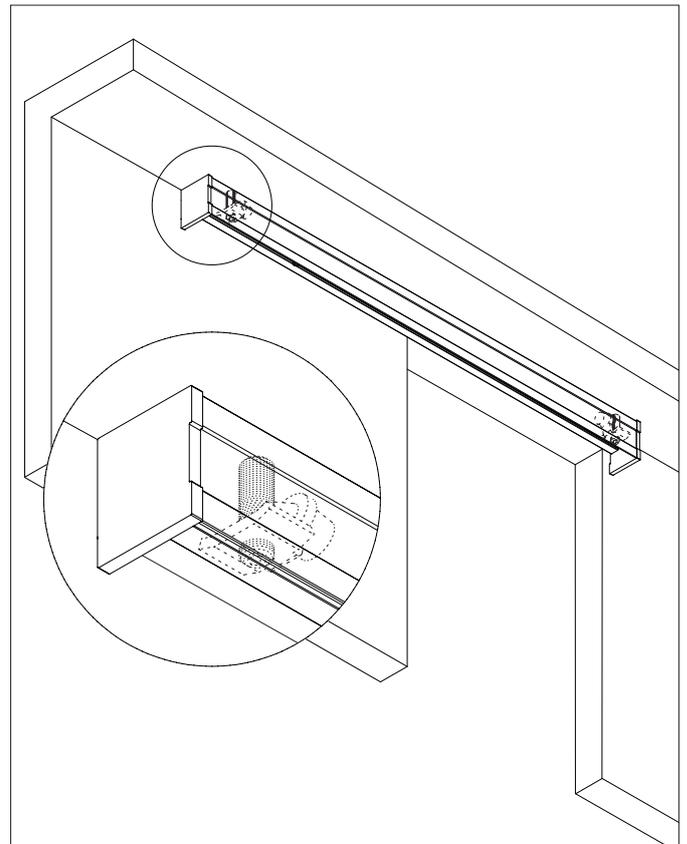
2_ Apply covers for top track insert on front and back.

DETAIL DRAWING

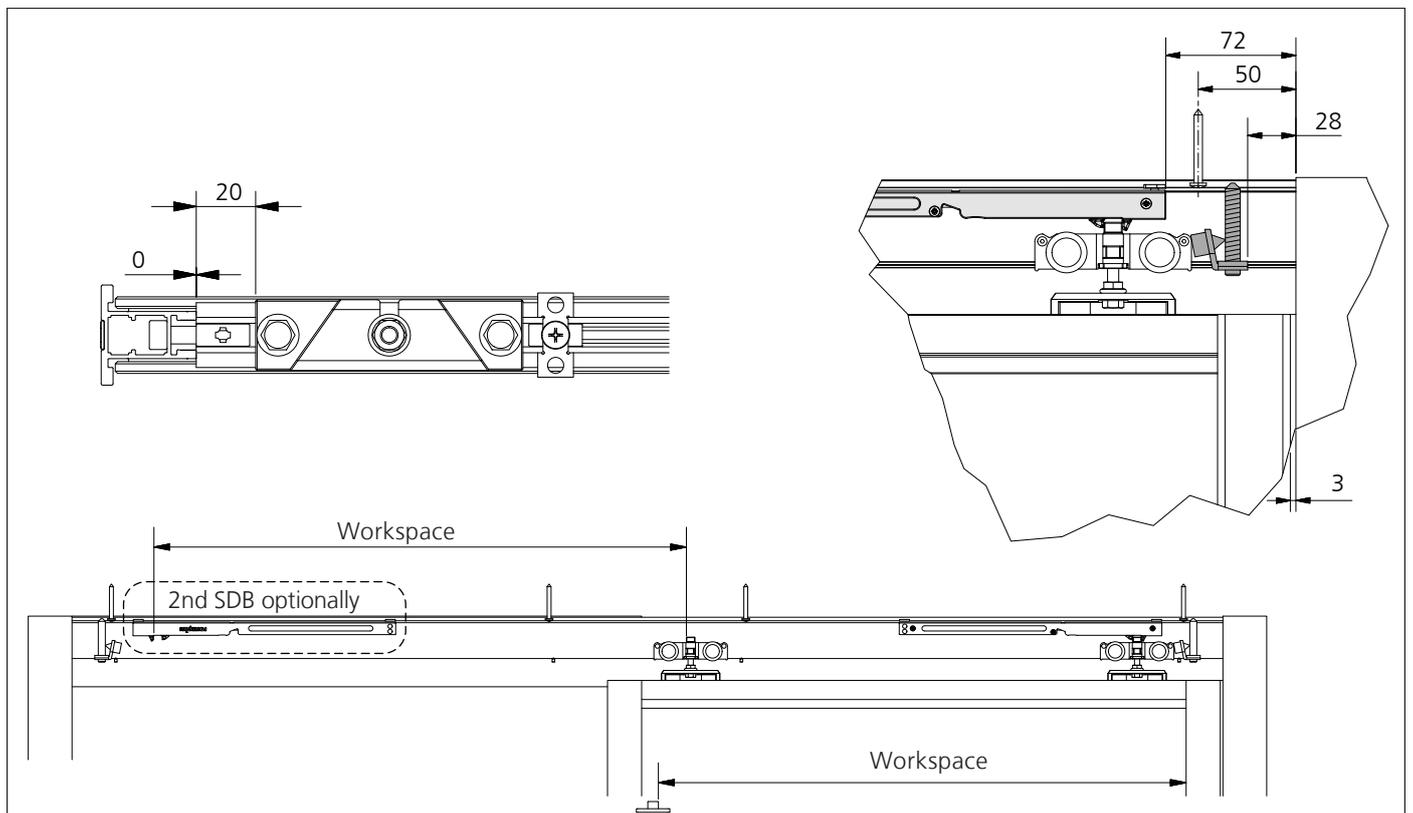
END CAP TOP TRACK OPTIONAL



1_ End cap for wall connection profile, left



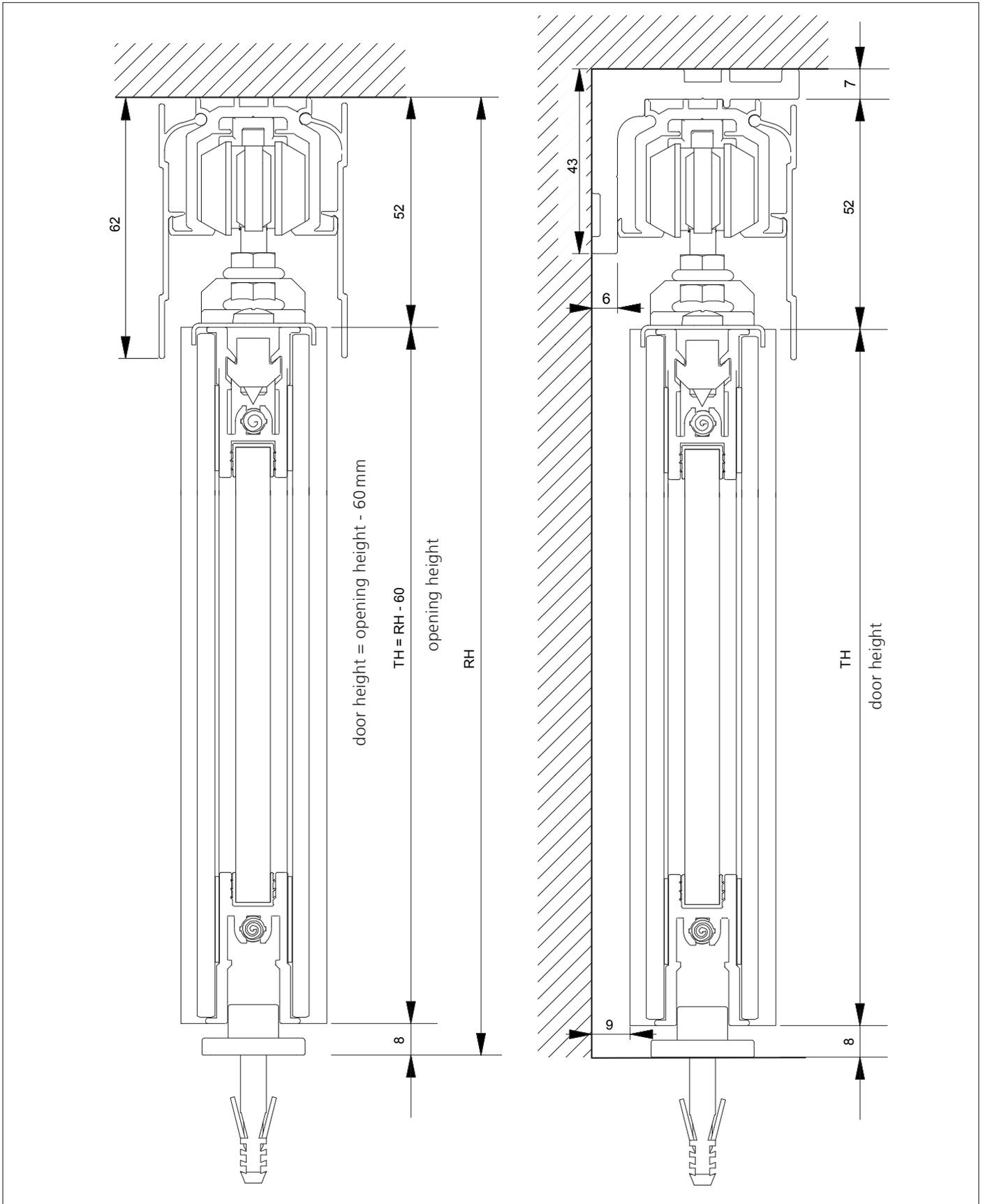
2_ End cap for insert profile / Stopper for top track AIR.



2_ Positioning of the sliding door brake

DETAIL DRAWING

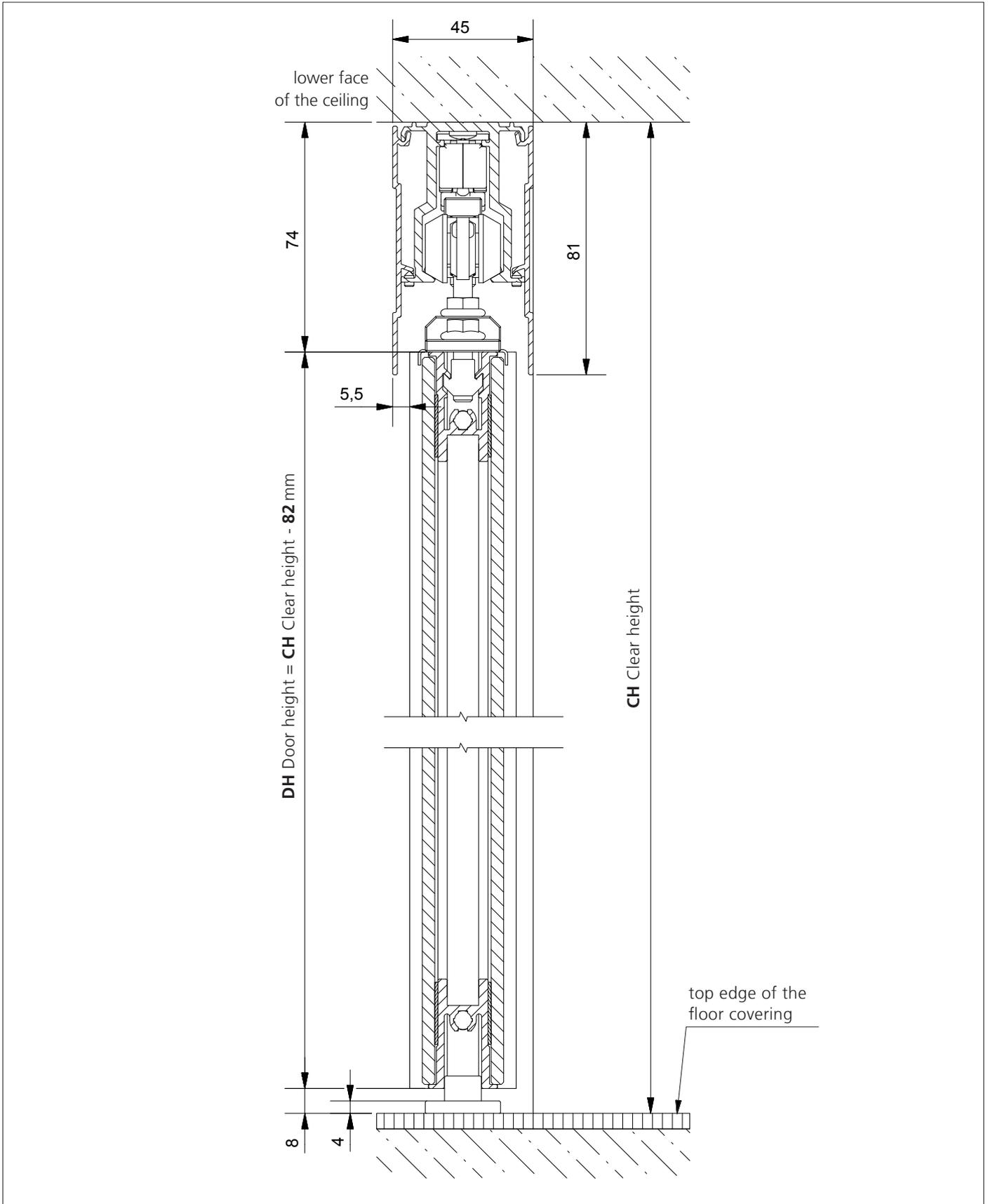
VERTICAL SECTION



1_ S800 ceiling installation / wall mounting bracket.

DETAIL DRAWING

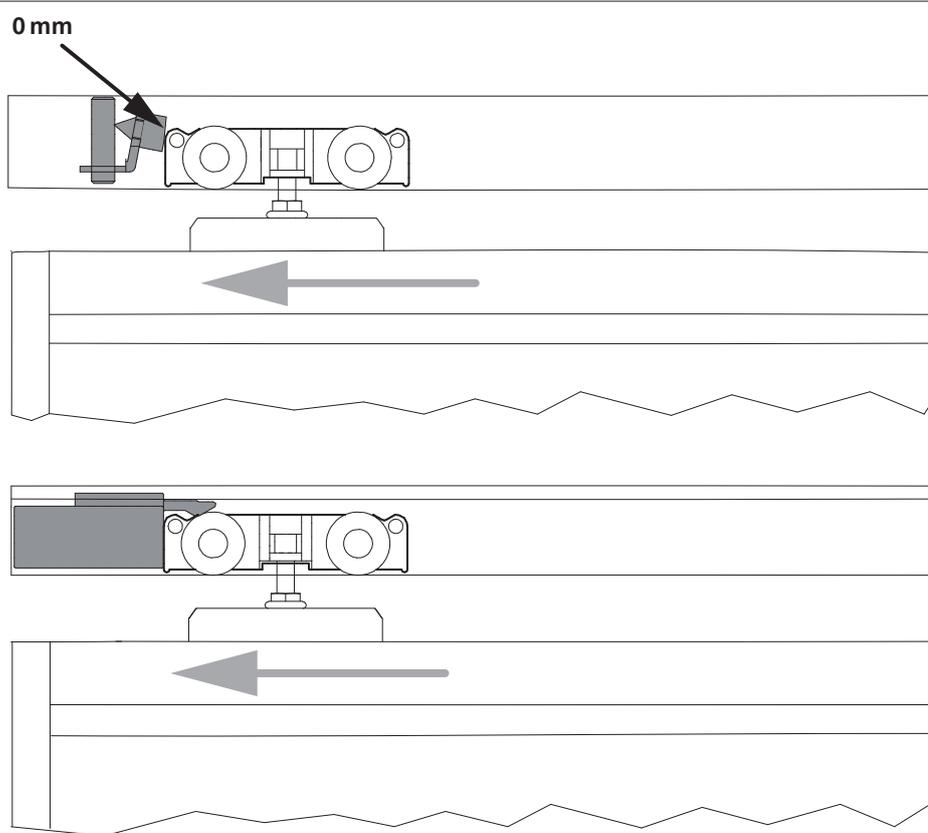
EXPLODED DRAWING



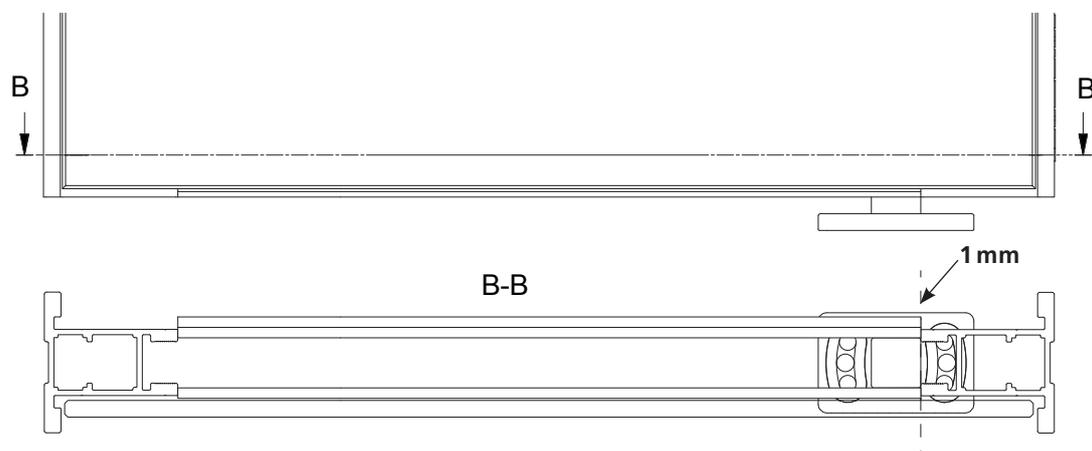
1_ S800 mounted to the ceiling top track ins. for AIR S34 SDB

DETAIL DRAWING

STOPPER FOR TOP ROLLER



i The door has to be pressed on the stoppoint at the installation.



Attention! Risk of damage!



The stopper for top roller inside the top rail are meant to be stoppoint for the door. The bottom guiding are not meant to be the stoppoint for the door and always requires some space to the stile to prevent the bottom guiding from being damaged.

ADHESION TECHNIQUE

This instruction applies to the glass and aluminum gluing of the S 800 and the wooden material, glass and aluminum gluing of the S 8000

General:

For safety reasons the back of the 4 mm glass panels must be covered with an adhesive safety backing (PE). Please adhere to manufacturers' processing guidelines and safety regulations.

In order to ensure optimum adhesion you must adhere to the following steps!

The processing temperature must be above 20°C.

1_Clean the adhesive surfaces using **3 m surface cleaner VBH**. Use a lint-free cloth for this purpose.

The surfaces must be free of grease, oil or silicon films and dirt.

2_Following this, wait approx. five minutes until all cleaner residues have evaporated.

3_Apply a thin film of **primer** to the adhesive surfaces (profiles and panels).

4_Following this, wait approx. five minutes until all primer residues have evaporated.

5_Apply the **tape** bubble-free adhesive tape to the profiles.

Following this use the pressure roller to roll it on firmly (approx. 20 N/cm²) and remove the protective film.

6_Apply to the glass panel and press on firmly.

Important: Do not touch surfaces which have been cleaned and primed.

The panels must be adjusted exactly before beginning the adhesion process.

The panel cannot be adjusted after adhesion!



7. After adhesion process and pressing of the components, it is advisable to store the element in a lying position until the final adhesive force has been reached.

GLUING:

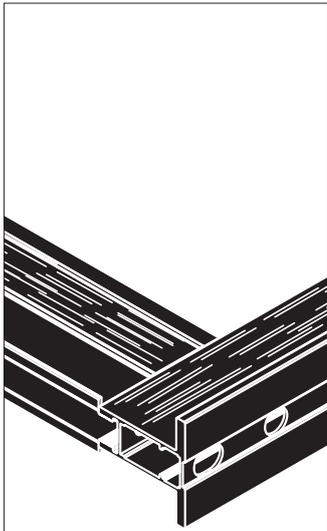
STANDARD		OPTIONAL
tesa®	← System →	3 M™
Cleaner: 3 M - Surface Cleaner VBH (may be taken for all systems)		
Promoter 60150	← adhesive agent →	Primer 94
ACX plus 7044	← adhesive tape →	4613F VHB™

↓
for **S 8000** this type of gluing is **essential!**

We reserve the right to make technical alterations. We recommend one attempt at fixing adhesive products.

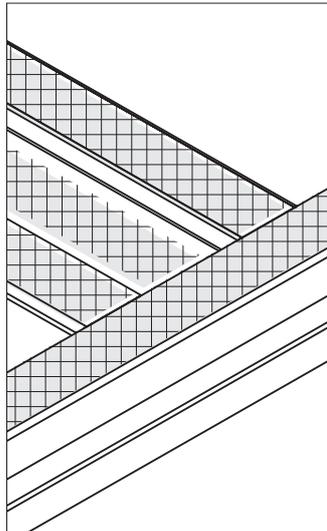
ADHESION TECHNIQUE

Preparation of adhesive surface



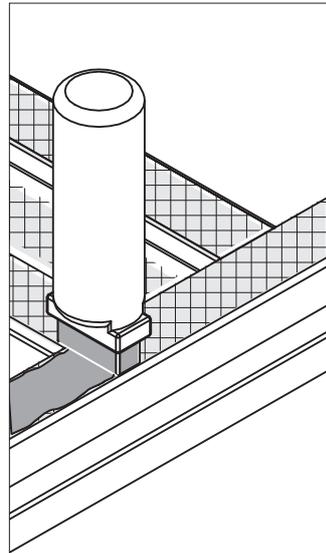
To increase the adhesive force at profiles with the surface: „**black mat**“. It is required to roughen thetheadherend (surface) with abrasive paper of grain size 100.

1_ only surface: „**black mat**„



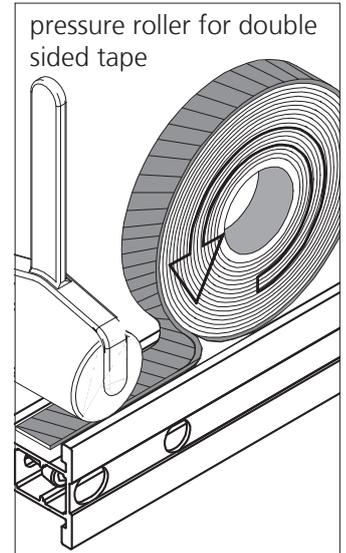
Clean the adhesive surfaces of the profiles and the back of the glass with cleaner. Use lint-free cloths: The surface has to be free of grease, oil or silicone films as well as dirt particles. **Wait approx. five minutes in order to give the solvents time to evaporate.**

2_ cleaner



Apply a thin layer of primer / promoter to the adhesive surfaces. **Wait approx. five minutes in order to give the solvents time to evaporate.**

3_ promoter/ primer



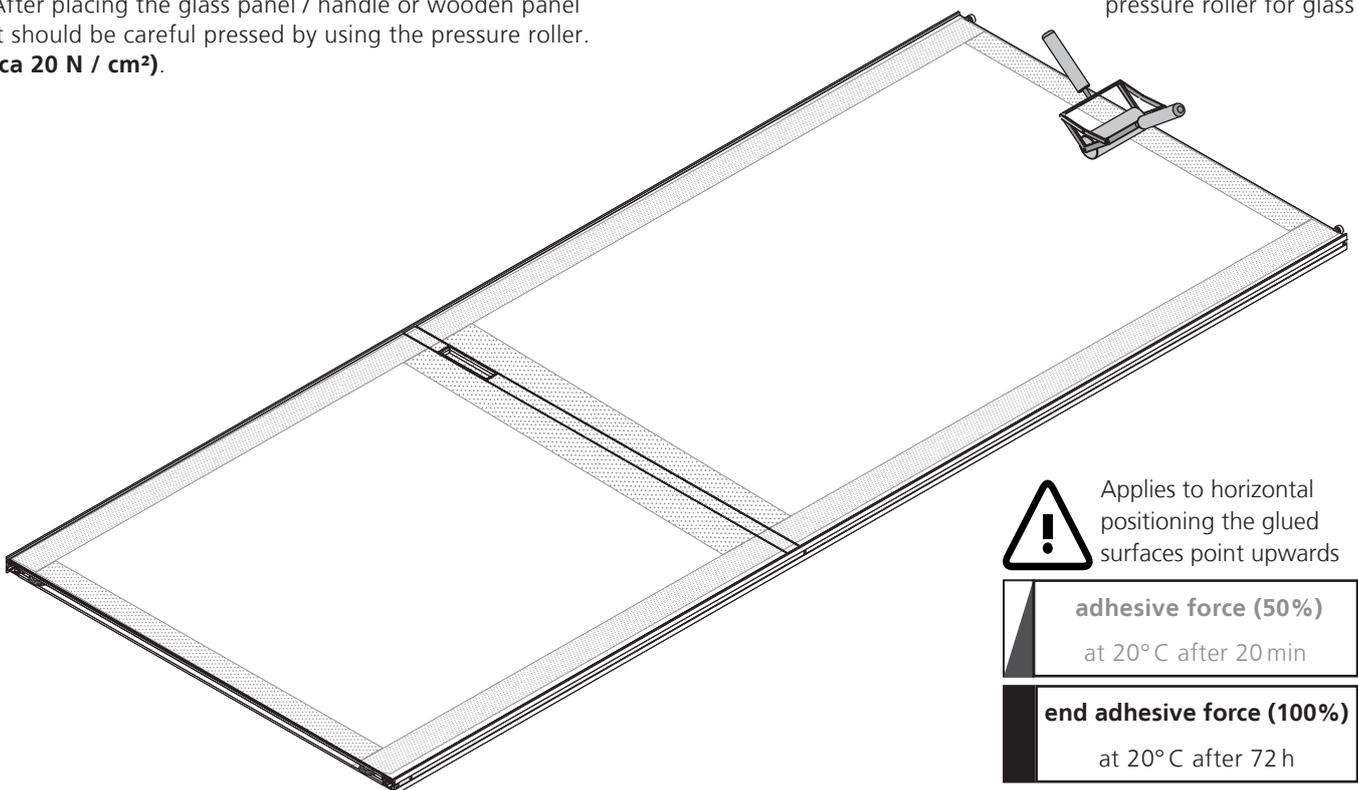
pressure roller for double sided tape

The processing temperature should not be below **20°C** pressure: **ca. 20 N / cm²**

4_ adhesive tape

After placing the glass panel / handle or wooden panel it should be careful pressed by using the pressure roller. (**ca 20 N / cm²**).

pressure roller for glass



Applies to horizontal positioning the glued surfaces point upwards

adhesive force (50%)

at 20° C after 20 min

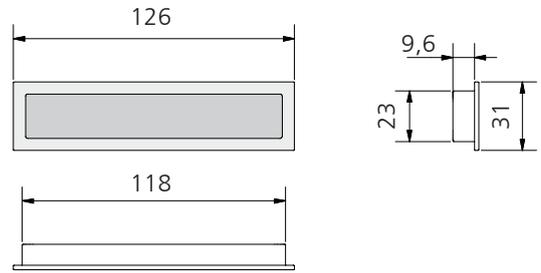
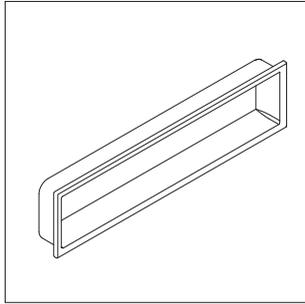
end adhesive force (100%)

at 20° C after 72 h

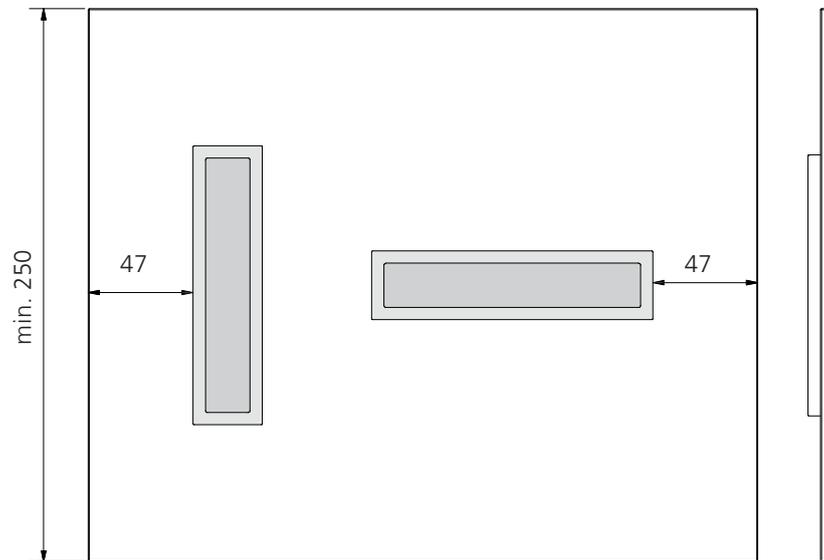
5_ pressing the joining parts

DETAIL DRAWING

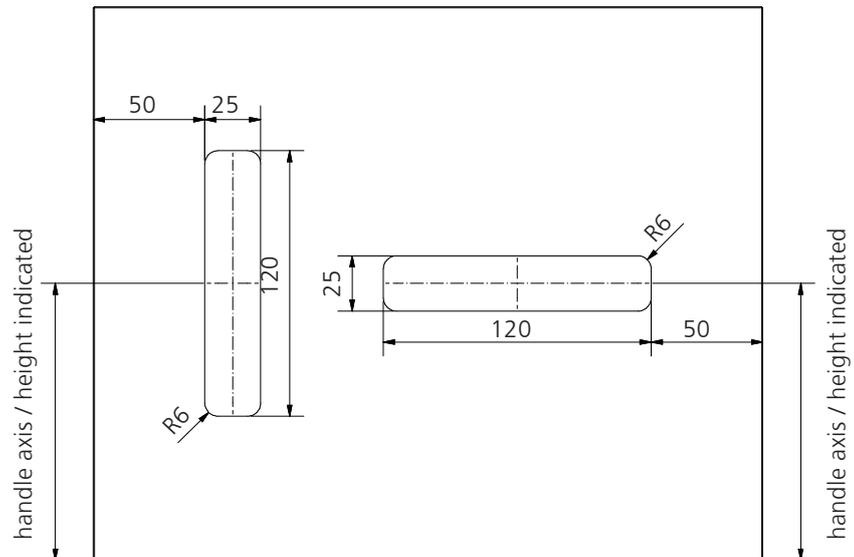
POSITION & MILLING PATTERN / HANDLE INSERT S800/S8000/AIR (10.01.29X)



POSITION



MILLING PATTERN / GLAS CUT OUT



1_ Bonding with: „SIKAFLEX“ construction adhesive.

DETAIL DRAWING

POSITION & MILLING PATTERN/STABILISATION PANEL/ HANDLE INSERT S800/S8000/AIR (10.01.29X)



This illustration refers to simply glass filling of the door.

For this application, the stabilization filling must be milled out!

