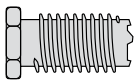


### General information about completion of delivery:

- The doors arrive unglazed from the factory.
- The holes for installation will be predrilled and adjufixes attached on the frame (top/left/right sides).
- The required quantity of mounting brackets for the bottom installation (art. nr. CO2077) are packed separately in a box. Screws for brackets fastening to the wall are not included.
- Preparation and insulation of openings of the building should be carried out before installation works. This is the responsibility of the customer, architect and dealer.
- **Important!** The parts are not load bearing. External weight must therefore not stress the construction. In the case of very small, or no deflections by the upper structure, a rigid attachment can be used.

### Installation material:



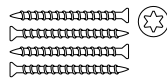
#### 1. Adjufix

Required quantity included in delivery.



#### 2. Brackets (CO2077)

Required quantity included in delivery.



#### 3. Screws

Screws for fastening brackets and adjufix to the wall. Not included in delivery.



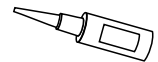
#### 4. Wedges

Use stable, waterproof material, eg plastic. Not included in delivery.



#### 5. Bearing pads

Use stable, waterproof material, eg plastic. Not included in delivery.



#### 6. Neutral silicone

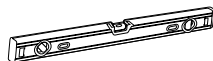
ex. Penosil Neutral silicone. Not included in delivery.

### Installation tools:

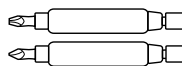
Not included in delivery.



#### 1. Cordless screwdriver



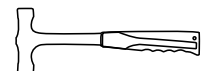
#### 2. Spirit level



#### 3. Magnetic bits



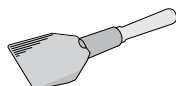
#### 4. Drills



#### 5. Light hammer



#### 6. String or laser for leveling



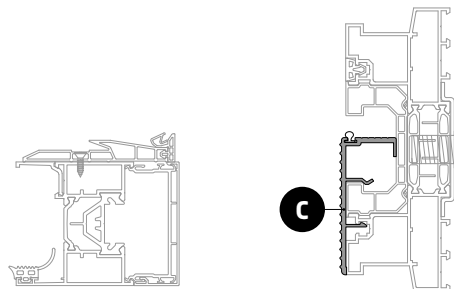
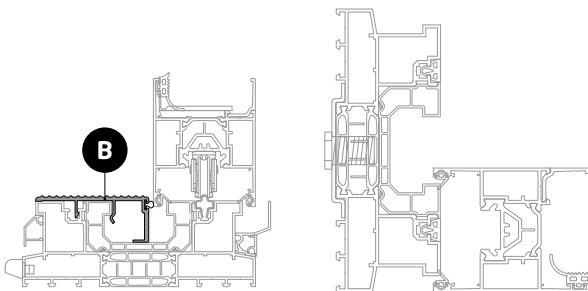
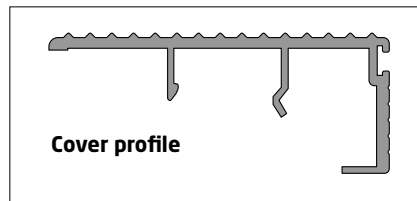
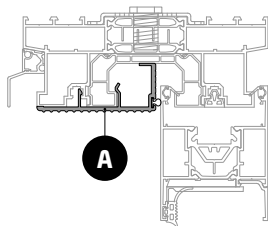
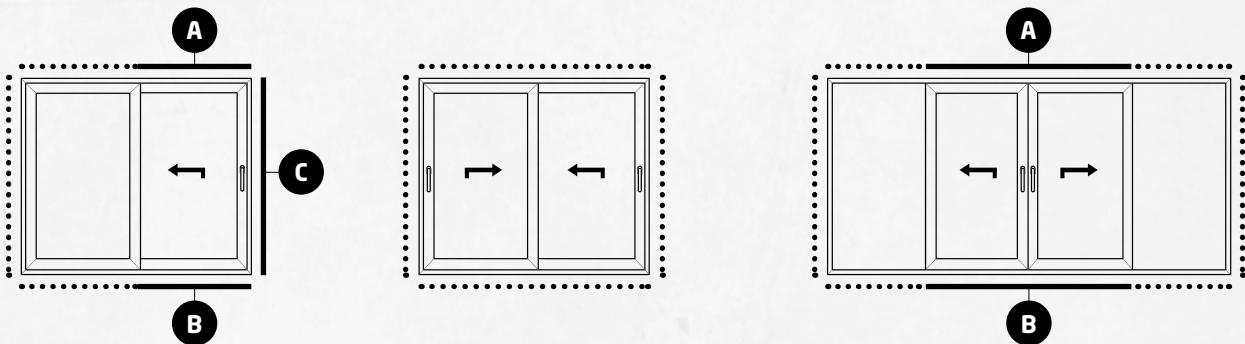
#### 7. Glass adjustment tool

### Step 1

#### Remove cover profiles from the frame

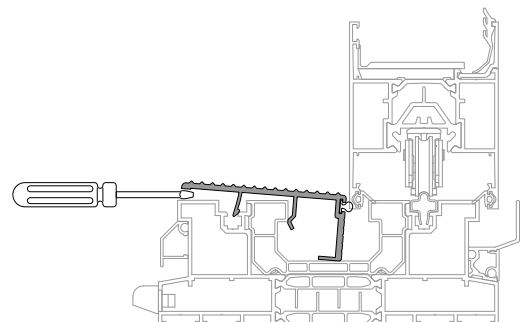
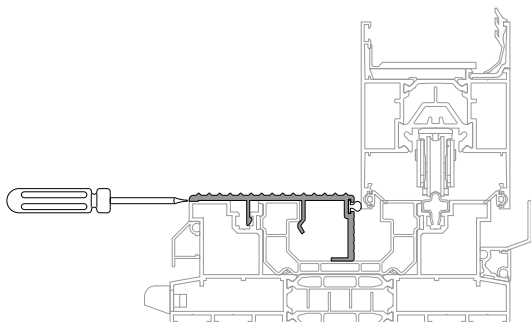
**NB!** The placing of cover profiles might vary according opening type.

— Cover profile  
..... No cover profile



**Step 1.1** Insert a thin screwdriver (or knife) in the gap between the frame and the cover. Be careful not damage the paint.

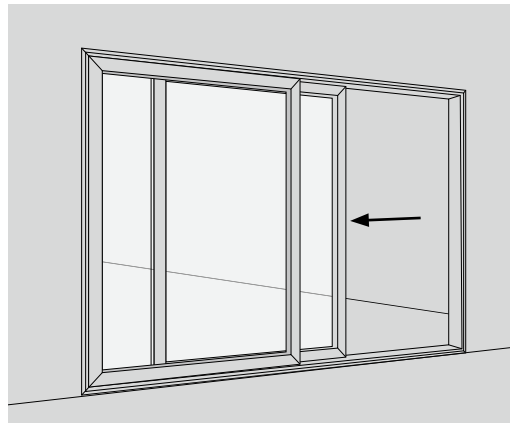
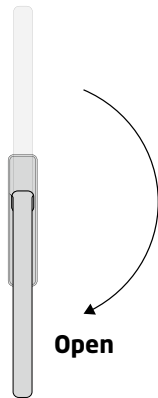
**Step 1.2** Twist the screwdriver (or knife) to the side and remove the cover. Place it safely.



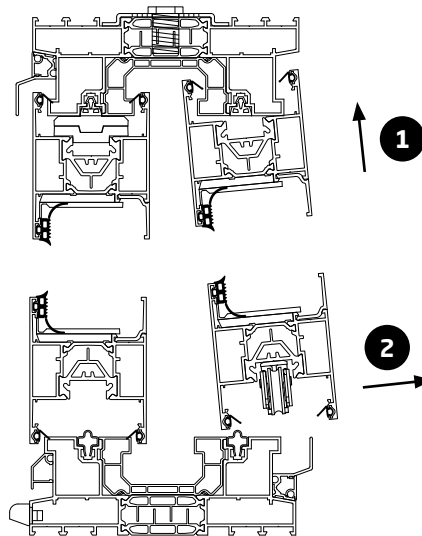
### Step 2

#### Take out the main sash (slideable part)

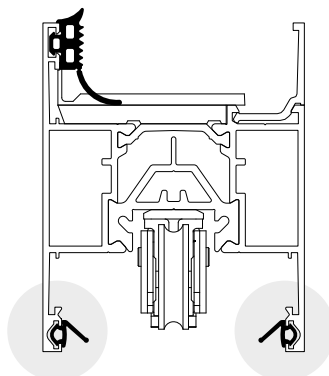
**Step 2.1** Rotate the handle into the open position and slide the main sash to the centre.



**Step 2.2** Lift the sash up and tilt the bottom against the frame. Take the sash out.



**Step 2.3** Place the sash safely ensuring that flanges will not be damaged.

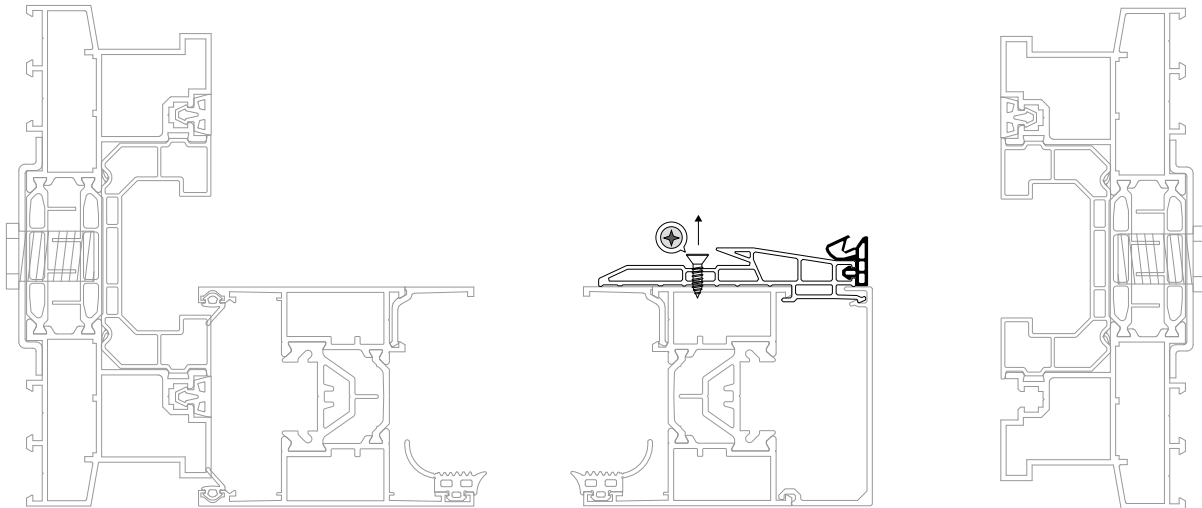


**NB!** There is no need to take out the fixed part. It can be kept in the doors during the installation process.

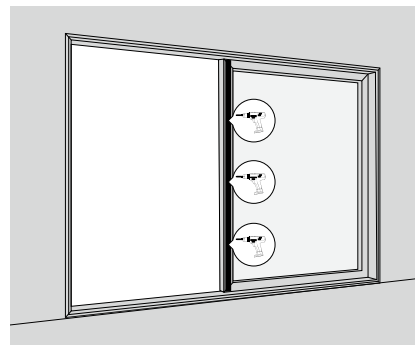
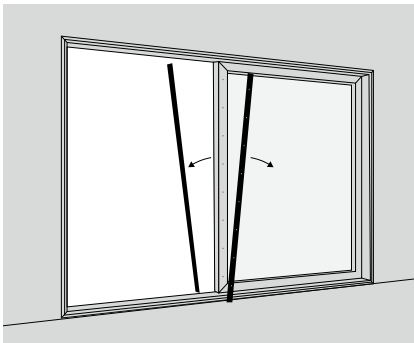
### Step 3

#### Remove interlock profile and glazing beads from the fixed part

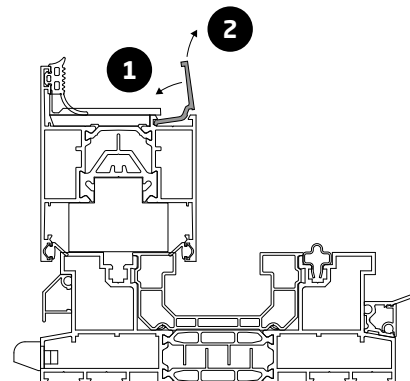
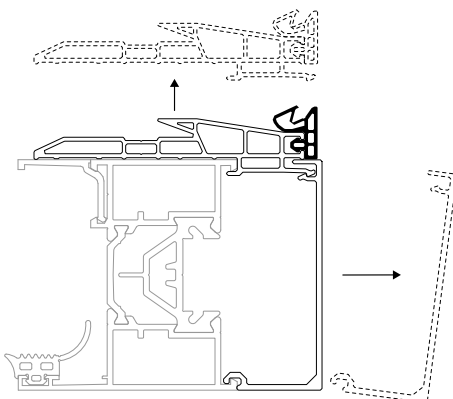
**Step 3.1** Unscrew all the screws which keep the interlocking profile fastened on to the fixed part (turn anticlockwise) with the help of a screwdriver.



**Step 3.2** Remove the interlocking profile and aluminium cover. Place them safely.



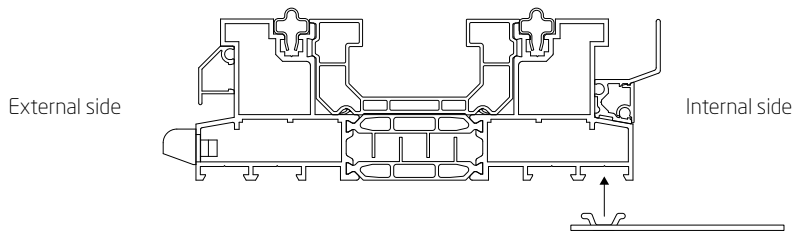
**Step 3.3** Remove the glazing beads from the fixed part. Push the glazing bead forward in order to free up and place it safely.



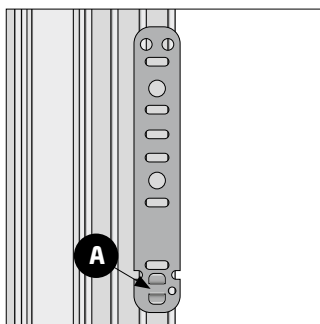
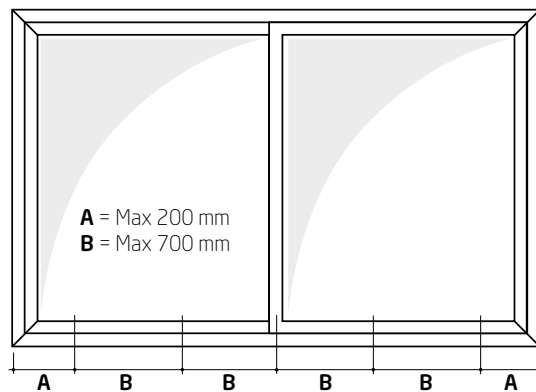
### Step 4

### Fix brackets at the bottom to the frame according to the instructions below

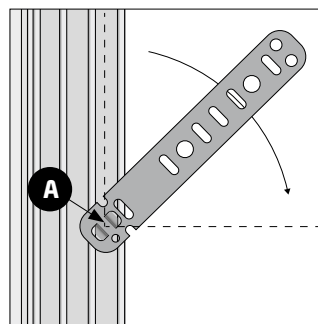
Fasten mounting brackets to the frame.



Brackets fixing points:



**Step 4.1** Bracket should be fitted in one line of the profile. Bracket 'knobs' should be fitted in the grooves (A).



**Step 4.2** Turn the bracket through 90 degrees.

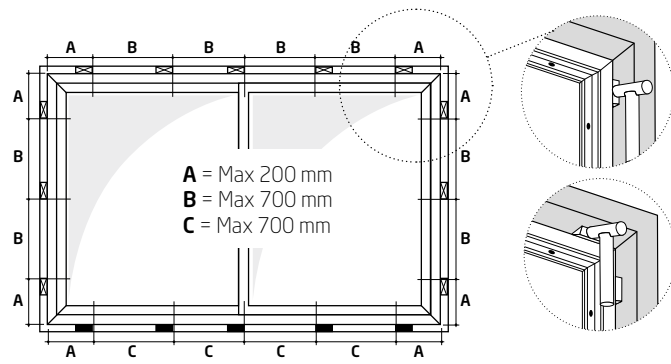
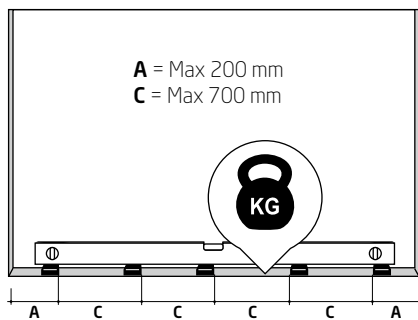
**NB!** Fastening the mounting brackets at the bottom by screws is not needed.

### DOOR INSTALLATION TO THE OPENING

#### Step 5



**Prepare the opening for installation. The entire base under the threshold must be flat and level. The base must be firm and steady and tolerate a heavy weight.**

**NB!** If the base is of concrete a DPC must be placed under the whole length of the threshold.



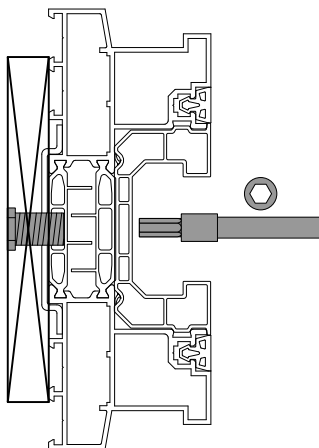
**Step 5.1** Place bearing pads at the bottom of the opening next to each fixing point on the door. The number of bearing pads must correspond to the number of fixing points. Ensure they are level.

**Step 5.2** Fix the frame with wedges into the wall opening. The wedges must be positioned next to each fixing point on the frame.

 = Wedges  
 = Bearing pads

**Step 5.3** Fix the frame with adjufix sleeves into the opening with the help of hexagonal screw-driver bit.

**NB!** For the gap between the frame and the wall it is recommended to leave: 15-20 mm.

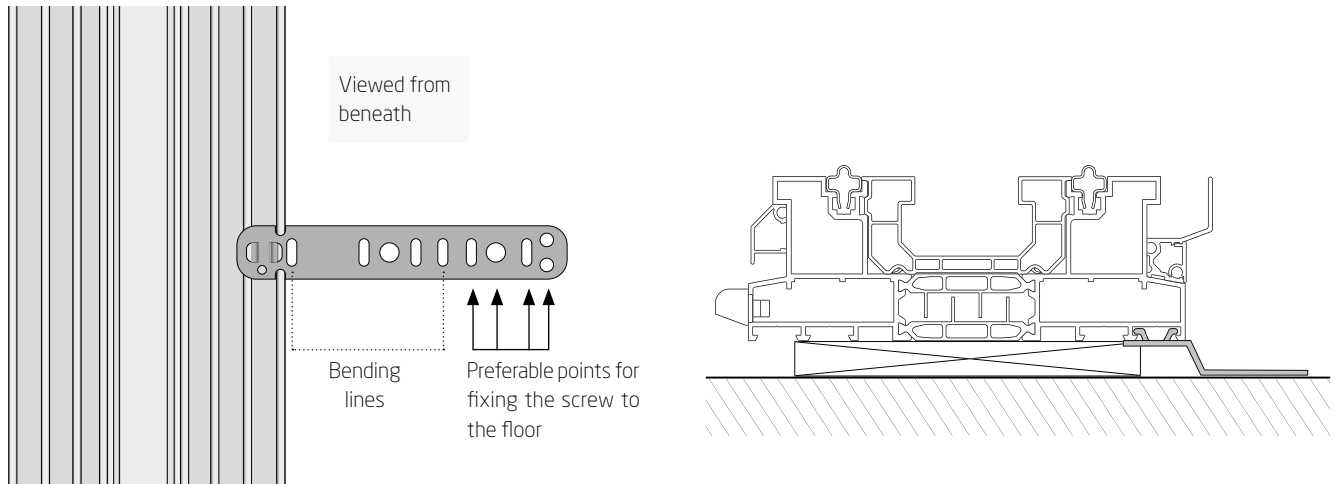


**NB!** Always use wedges or setting blocks between door frame and wall regardless of chosen installation alternative.

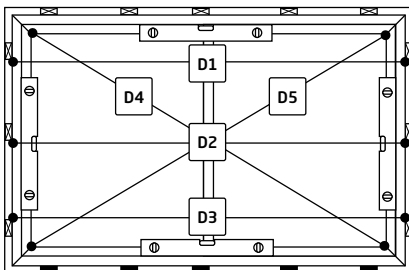
**STEP 5.4** Bend all the brackets at the bottom to the required angle to fit the distance to the floor.

### Bracket bending

Bend all the brackets in the required angle to fit the distance to the floor.

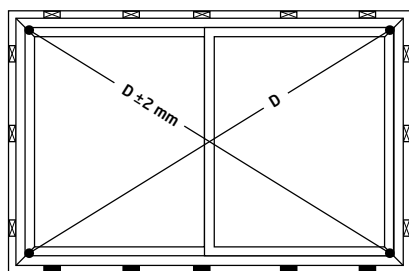


**Step 5.5** Ensure horizontal and vertical leveling of the frame.

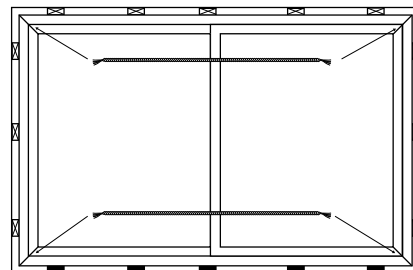


**D** = Distance

Level out using a spirit level.

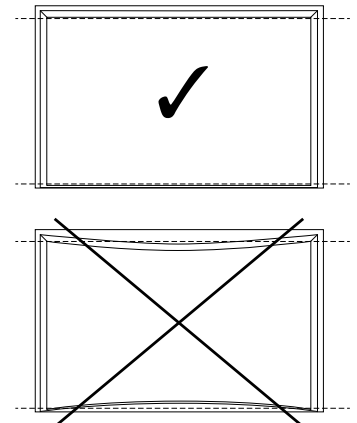


Measure the diagonals.



In the case of wide frame profiles, the top and bottom frame leveling can be checked by using a laser or string.

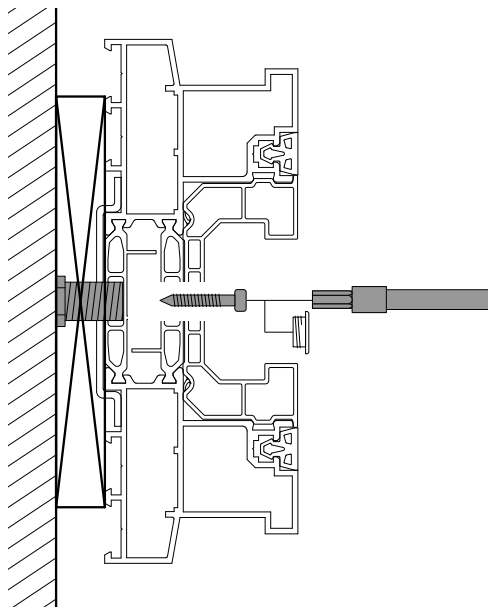
Straighten the string from one side to another to see if the whole profile is level.



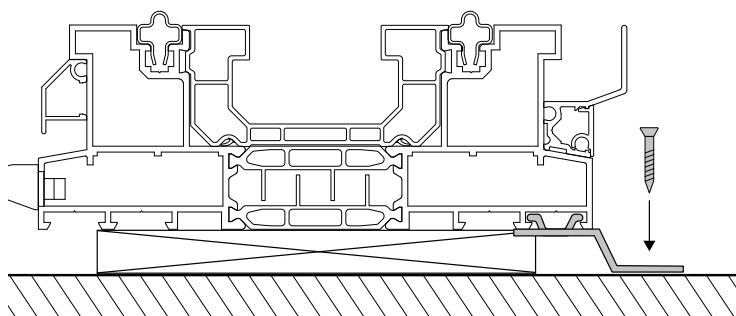
### Step 6

#### Fasten the door

**STEP 6.1** Screw bolts through the adjufix sleeves on the frame. The recommended distance and depth of drilling according to the type of the wall is shown in the scheme to the right. Cover pre-drilled holes with caps for finishing.

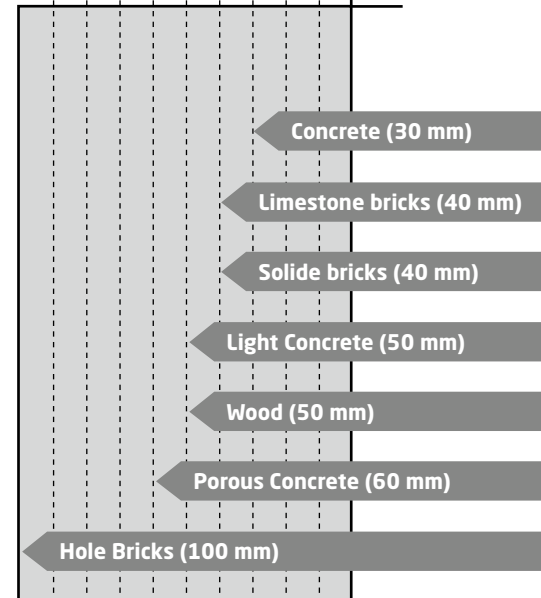


**STEP 6.2** Screw bolts through brackets.



Depth of drilling according material:

100:90:80:70:60:50:40:30: mm



It is not recommended to fasten doors into a wooden carcass due to the high risk of wood deformation due to environmental impact (cold/ heat).

**NB!** All the bearing pads and wedges should be left in place!

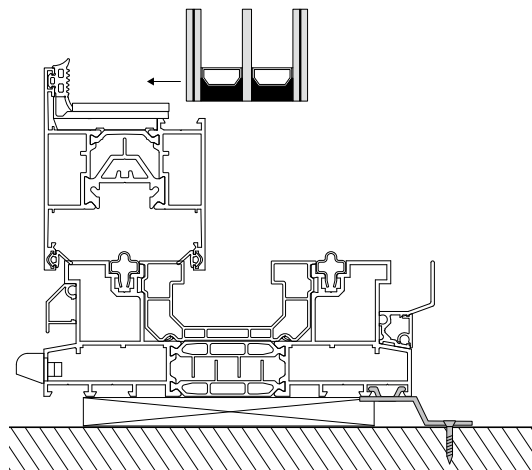
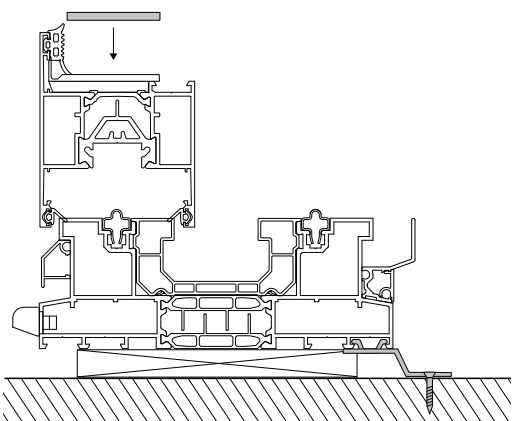
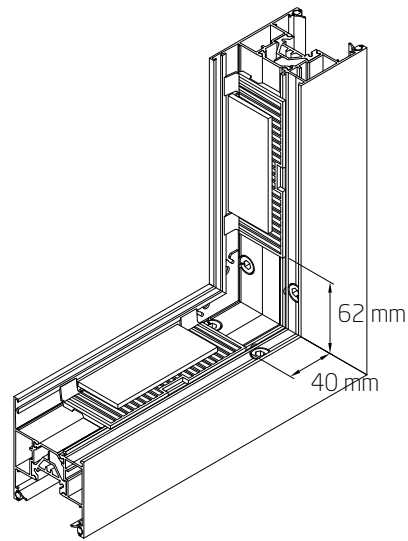
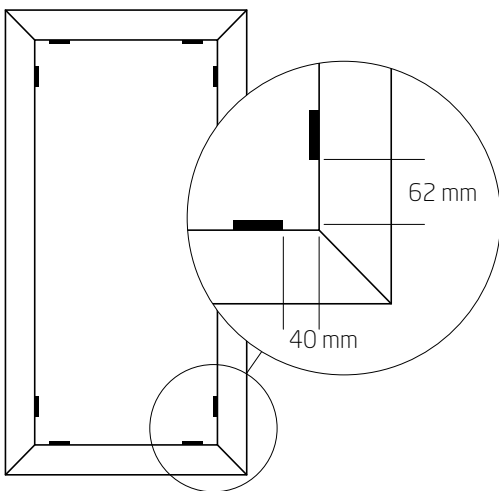


### Step 7

#### Install glass in the fixed part

Supporting distance plates will be placed in the right places already in the factory.

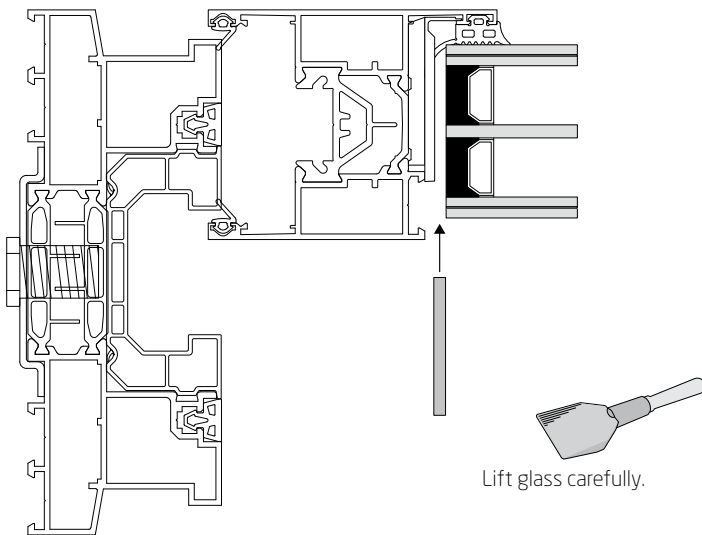
**STEP 7.1** Put 3 mm spacer distance plates (will arrive from the factory) on supporting distance plates at the bottom.



**STEP 7.2** Insert glass unit in the fixed part.

**STEP 7.3** Insert 3 mm spacer distance plates (will arrive from the factory) on the left/right sides and top. Use glass adjustment tool if needed.

**NB!** It is recommended to use glue on the spacer distance plate to ensure it will not fall out.



Secure the spacers with ex. mastic.

**STEP 7.4** Install the glazing beads and glazing gaskets. Important: make sure that the glazing gaskets have a distinct straight cut in the end surfaces and then squeeze the joints in the corners with pressure in the connection.

Do not pull / stretch the joints.

**1.** First install the horizontal glazing beads and horizontal gaskets (one by one).

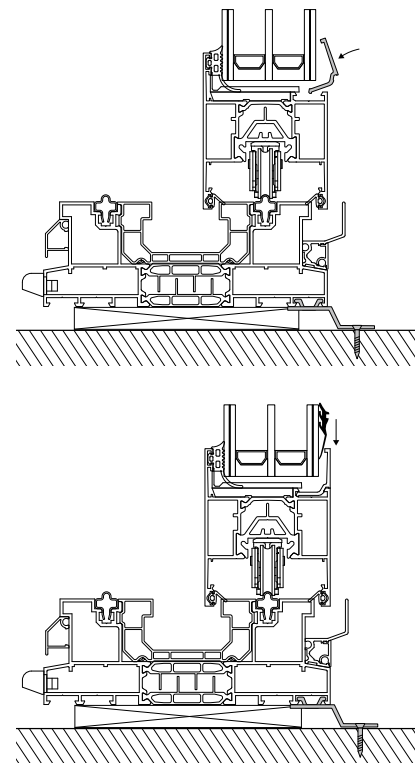
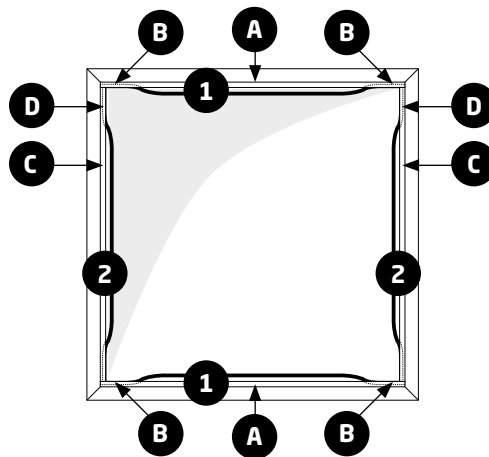
**2.** Afterwards, install the vertical glazing beads and gaskets (one by one).

**A:** Install horizontal glazing beads.

**B:** Press gasket ends into corners with pressure to form a seal against the vertical section.

**C:** Install vertical glazing beads.

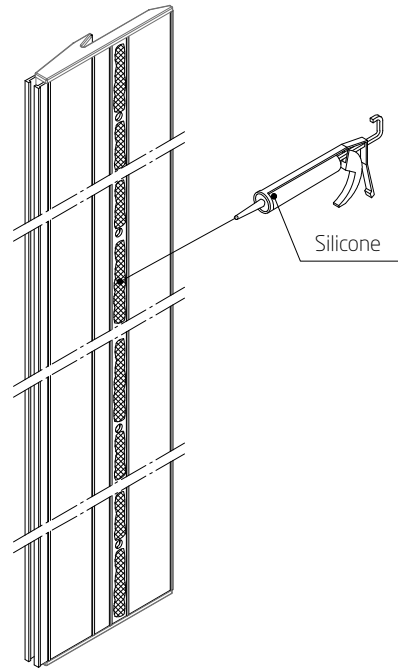
**D:** Install vertical gaskets as per pos. B.



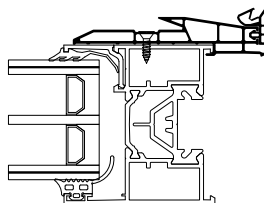
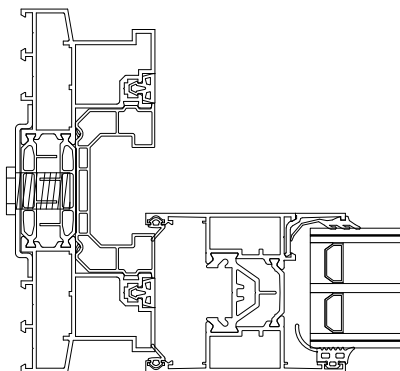
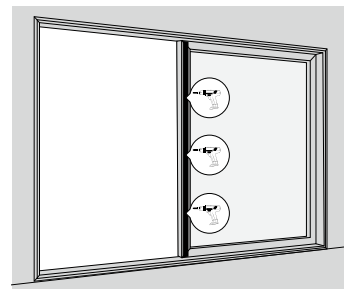
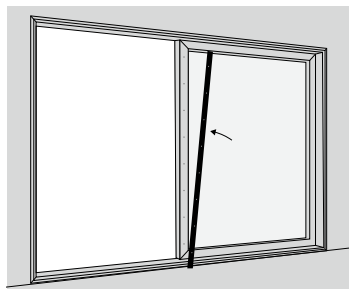
### Step 8

#### Install interlock profile on the fixed part

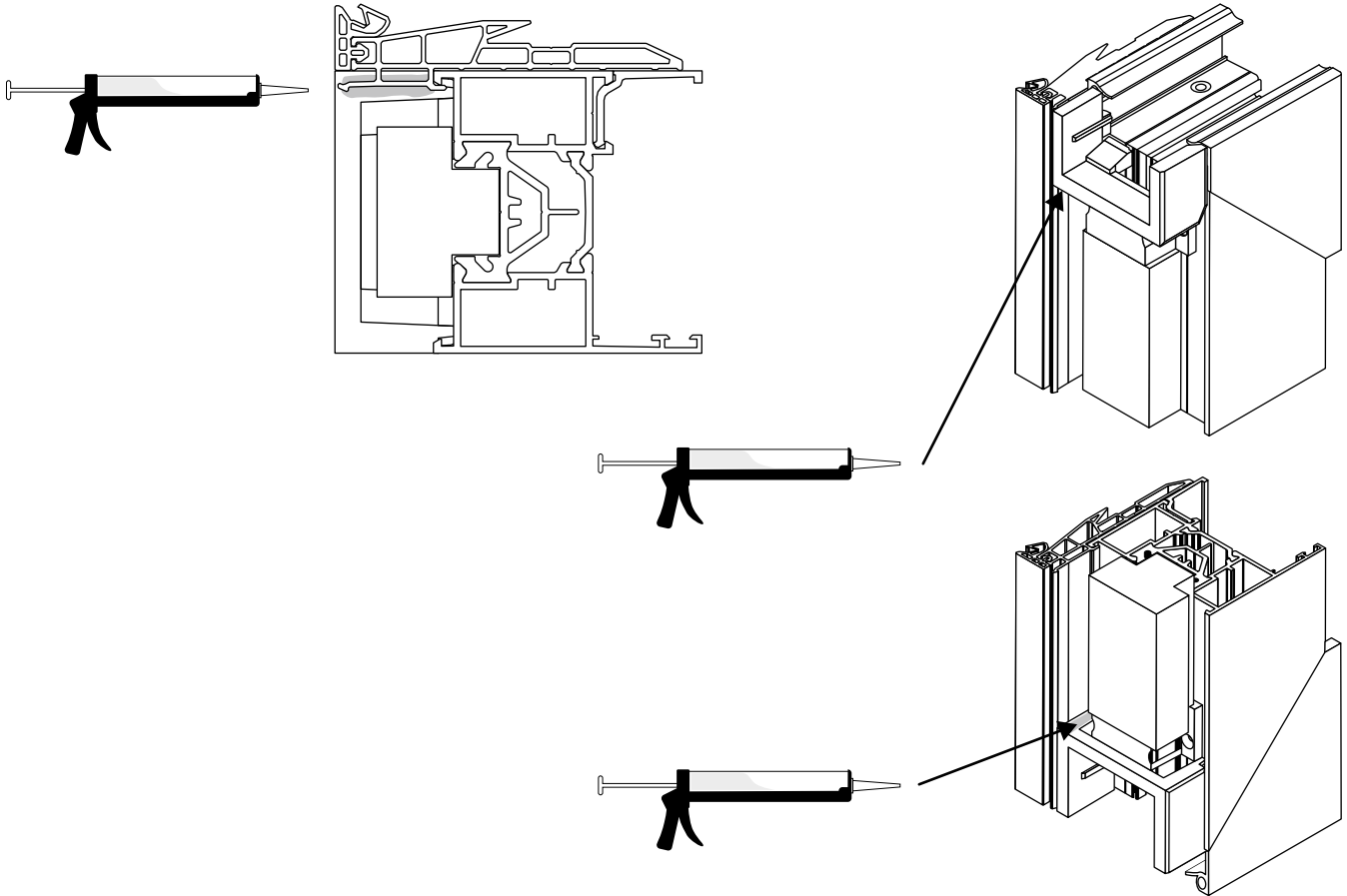
**STEP 8.1** Spread neutral silicone (ex. Penosil neutral silicone) on the interlocking profile.



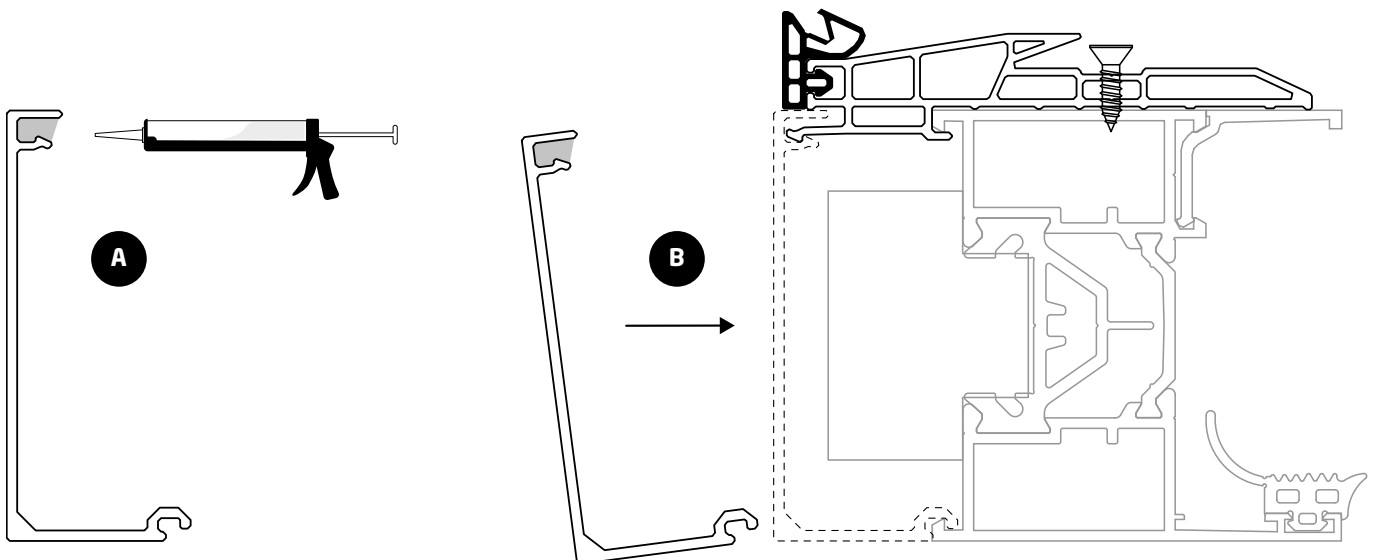
**STEP 8.2** Put the interlocking profile on the frame and fix all the screws which keep the interlocking profile fastened on the fixed part (turn clockwise) with the help of a screwdriver.



**STEP 8.3.** Spread neutral silicone according to the diagrams. Both, top and bottom junctions must be sealed.



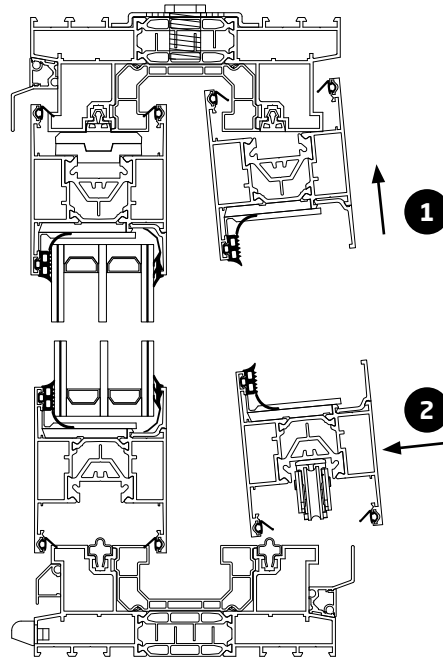
**STEP 8.4.** Apply silicone in the groove of the aluminium cover (A). Fit it back to the place (B).



### Step 9

#### Install the sash back into the frame

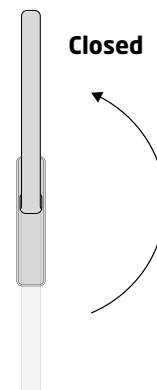
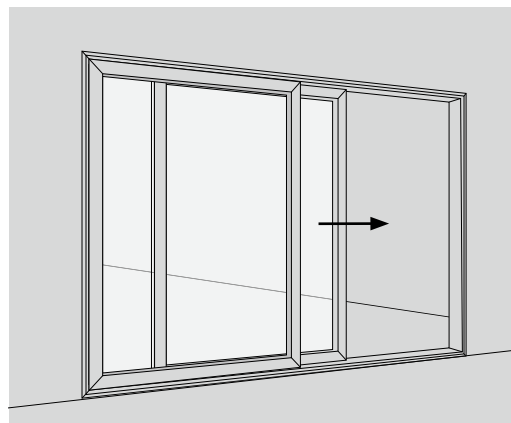
**STEP 9.1** Lift the sash up and place it into the frame according to the guidelines in the picture.



### Step 10

#### Install glass in the main sash (slideable part)

**STEP 10.1** Slide the main sash to the closed position and rotate handle to 'closed' position.

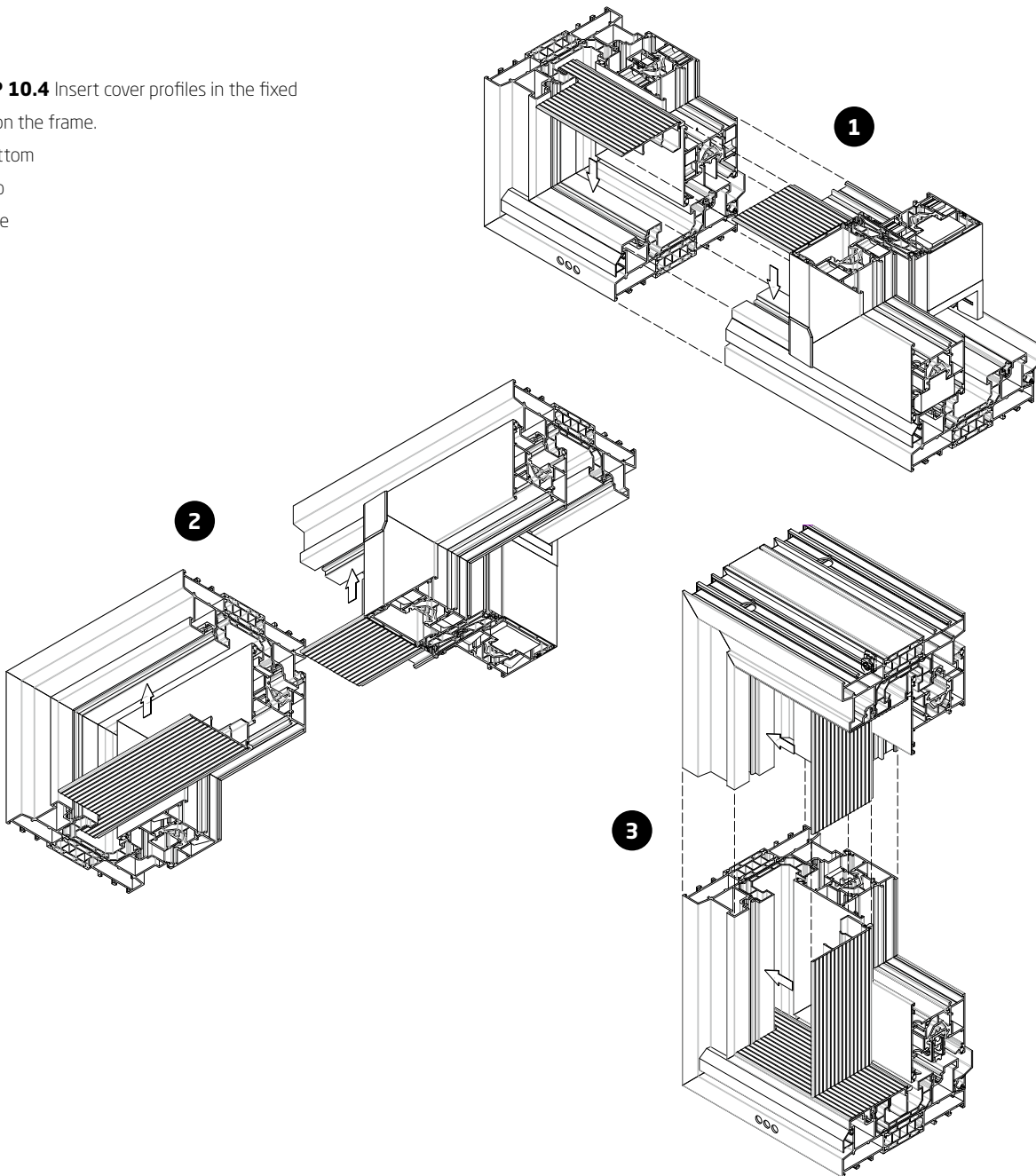


**STEP 10.2** Follow STEP 7 for glass installation in the main sash (slideable part). All steps are identical as for the fixed part.

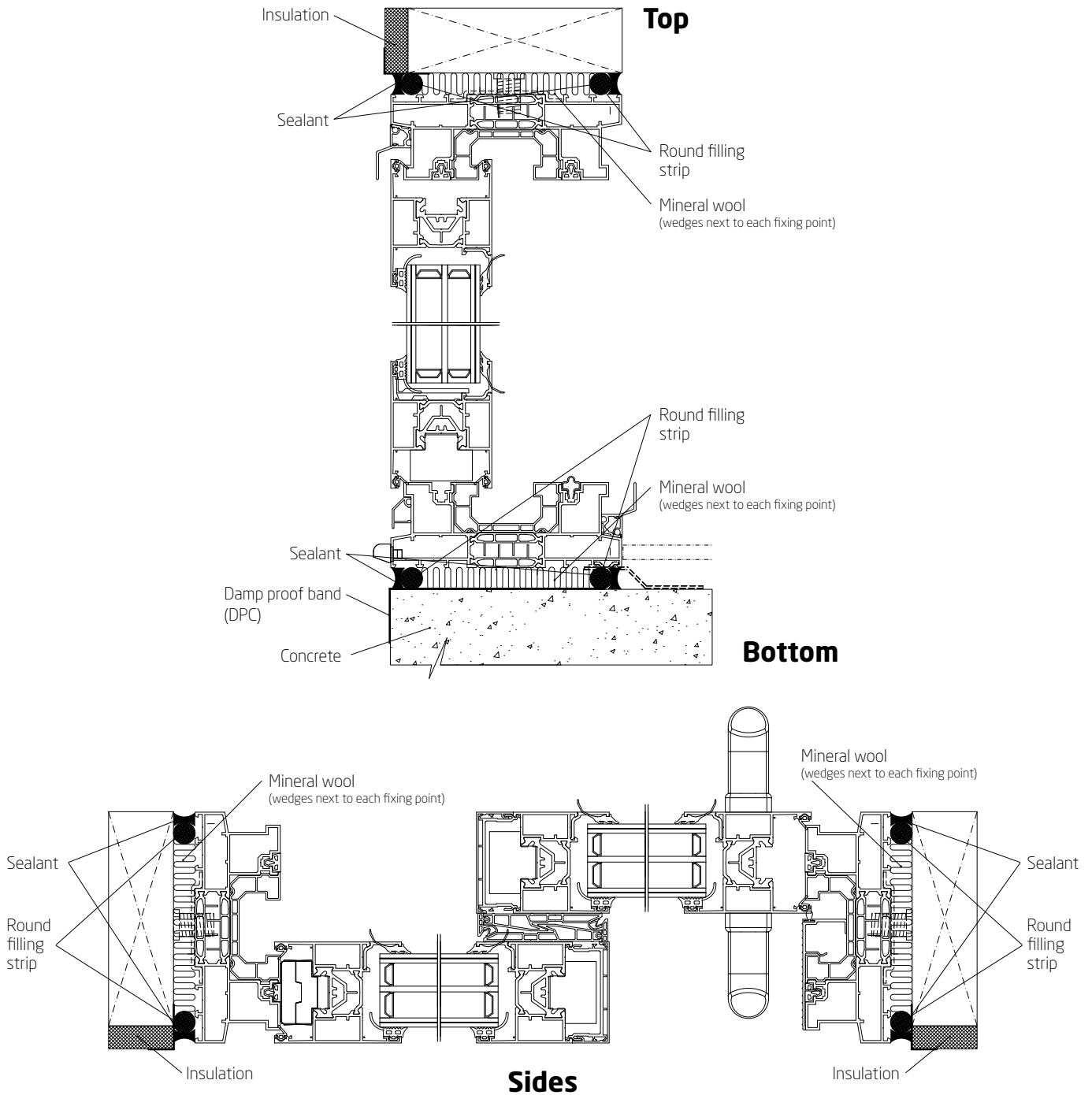
**STEP 10.3** Check the functionality.

**STEP 10.4** Insert cover profiles in the fixed part on the frame.

1. Bottom
2. Top
3. Side



### HelAlu lift sliding doors sealing recommendations



- The type of sealing can vary depending on the type of the wall where product is installed.
- The product should not protrude outside the insulation zone of the wall.
- Water run-off, wind/draught proofing between frame and wall must be carried out in accordance with byggforsk Norway details.