UKO GROUP

4900 PATIO DOOR

INSTALLATION GUIDE



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IMPORTANT

The purpose of this guide is to ensure the highest quality standards in the installation of the **4900 Patio Door.**

Before starting the process, it is necessary to review all the steps to ensure that there is no loss of performance in the installation process.

The installation must be carried out and supervised by duly trained and qualified professionals.

PREPARATION

Tools Needed:

- Large Spirit Level
- Tape Measure
- Hammer Drill and Bits
- 5mm Allen Key (for Frame Cleats)
- Silicone Sealant (Exterior)
- Glass Bonding Agent
- Appropriate Screws and Fixings
- Glazing Paddle
- Gasket Shears
- Glass Cleaner
- Assorted Packers
- 5mm Screwdriver (to adjust wheels if needed)
- Glass Suckers

In order to ensure the system is working correctly and to prevent any anomaly on the rolling of the sashes, it is important to properly level and plumb them.

Make sure that the building never transmits loads to the door.

4900 Patio Door Technical Data

Standard sliding system with hinged features. Offers great thermal and acoustic performance favoured by a glazing capacity of 28 mm. It has an interlock section of 35 mm and straight lines, allowing the sashes to cross over.

Transmittance

$U_w \geq 1.4$ (W/m²K)

Please consult typology, dimensions and glazing

Acoustic insulation

Glazing	Max. 28 mm
Max. Acoustic insulation	Rw 40 dB

Sightlines

Frame	60, 70, 89, 120, 125, 130 mm
	126, 145 mm 3 rails 201 mm 4 rails
Sash	48 mm

Profile Thickness

Window	1.6 mm

Features

Air permeability	Class 4
Wind resistance	Class C5
Water tightness	Class 7A

Reference Test AEV 1.8 x 2.2 m / 2 Sashes
CSTB Laboratory DTA Certification

Finishes

Possibility of dual colour systems
Colour powder coating
7016 Grey
7016 Grey / 9016 White
9005 Black
9005 Black / 9016 White
9016 White

Opening possibilities

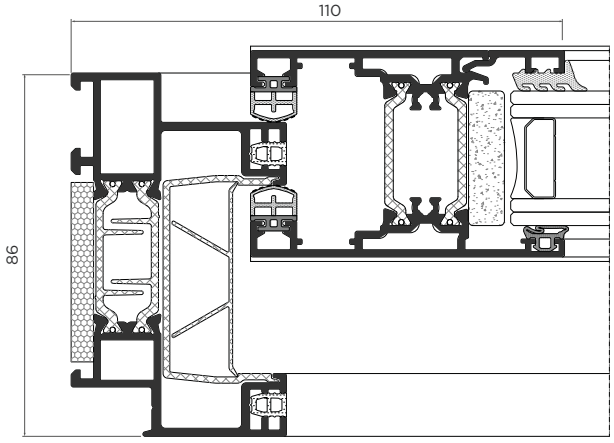
Sliding of 2, 3, 4, 6 & 8 sashes
Pocket possibility in 1, 2, 3, 4 & 6 sashes

Maximum Sash Dimensions

Width (L) = 2200 mm
Height (H) = 3000 mm

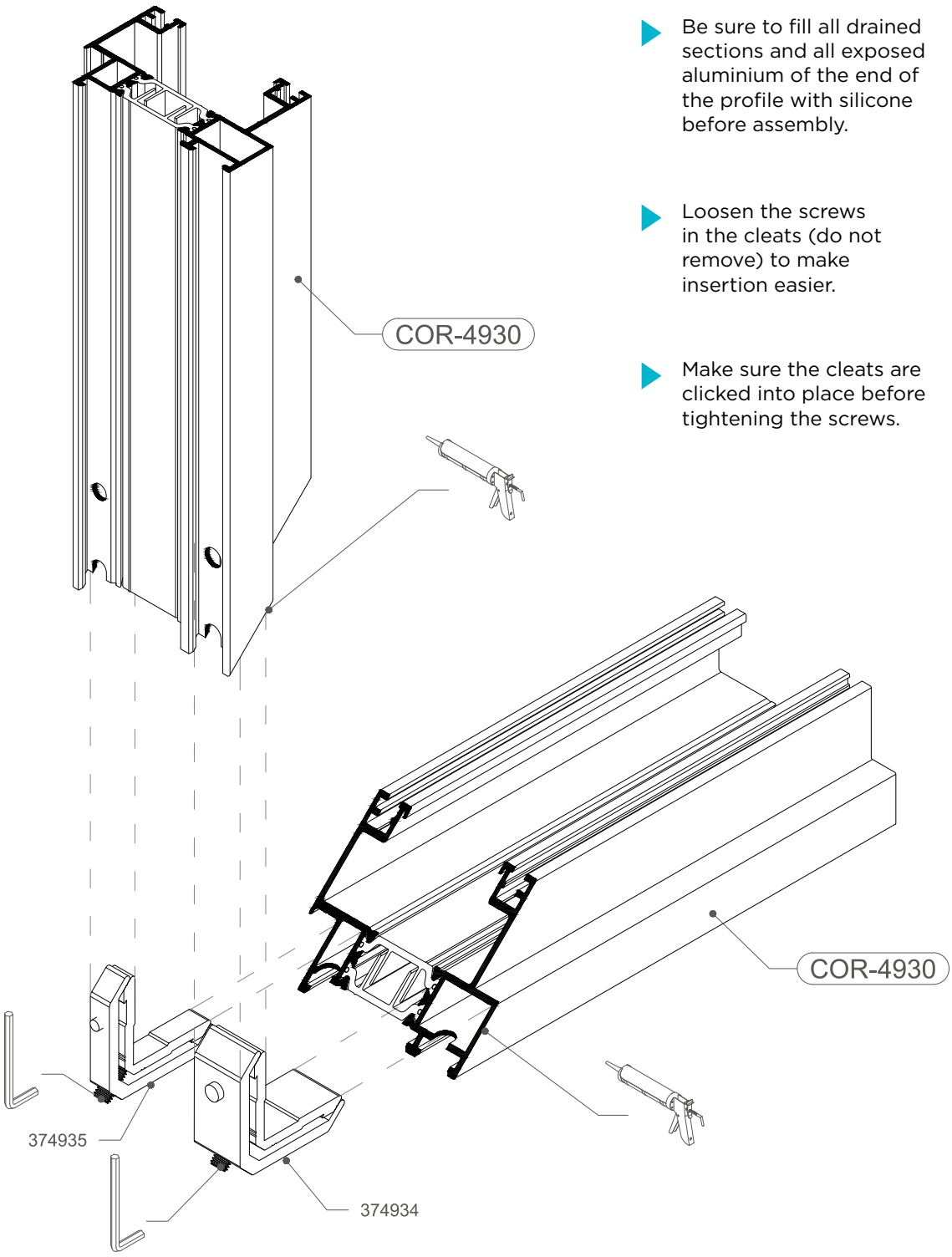
Consult maximum weight and dimensions according to typology

Maximum Sash Weight 240 kg



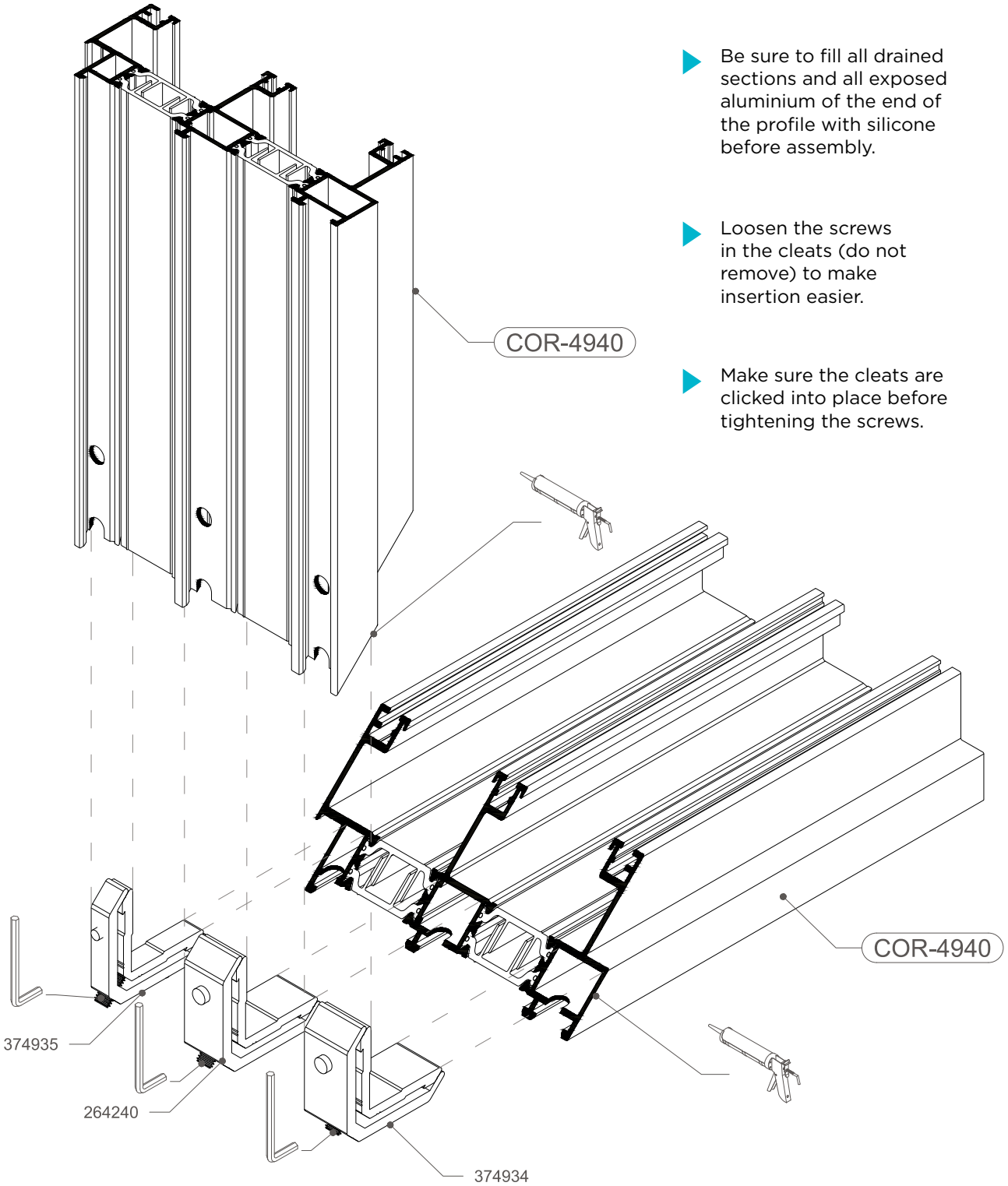


Frame Assembly - Double Track



- Be sure to fill all drained sections and all exposed aluminium of the end of the profile with silicone before assembly.
- Loosen the screws in the cleats (do not remove) to make insertion easier.
- Make sure the cleats are clicked into place before tightening the screws.

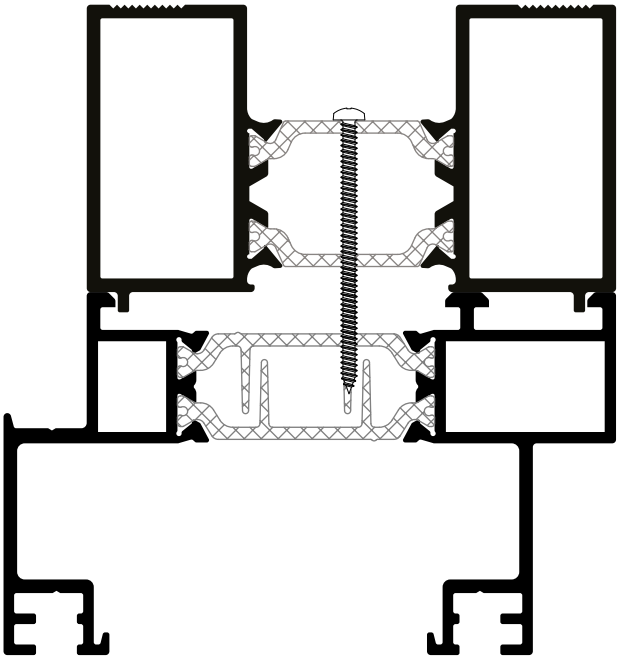
Frame Assembly - Triple Track



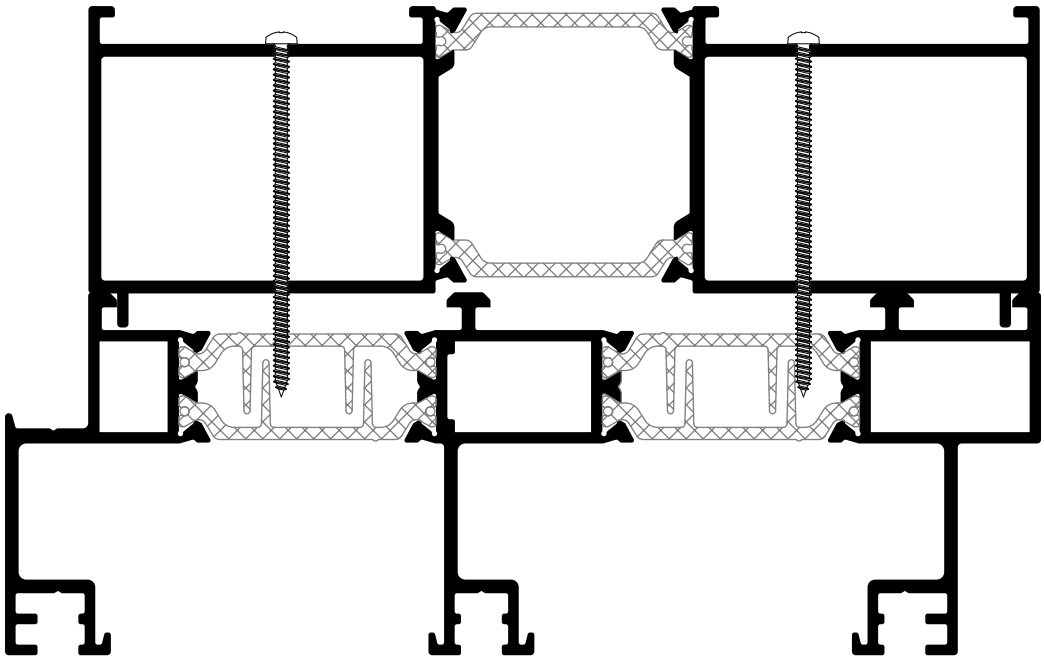
- Be sure to fill all drained sections and all exposed aluminium of the end of the profile with silicone before assembly.
- Loosen the screws in the cleats (do not remove) to make insertion easier.
- Make sure the cleats are clicked into place before tightening the screws.

Head Extension

Double Track Add On

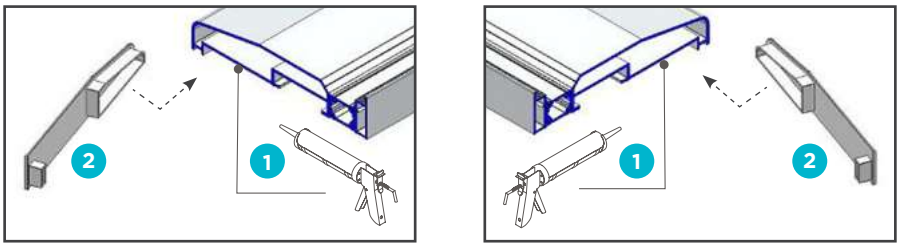


Triple Track Add On

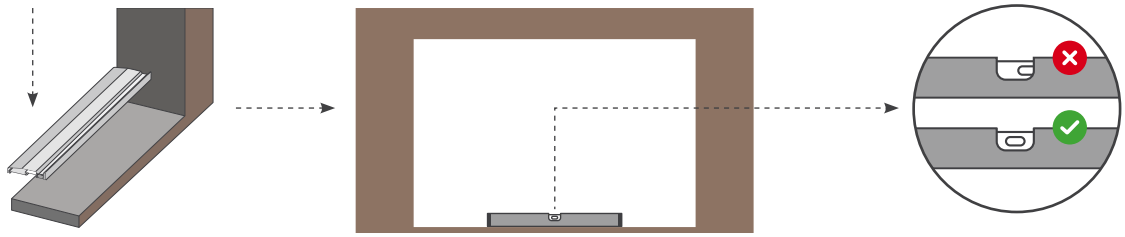


Cill Installation

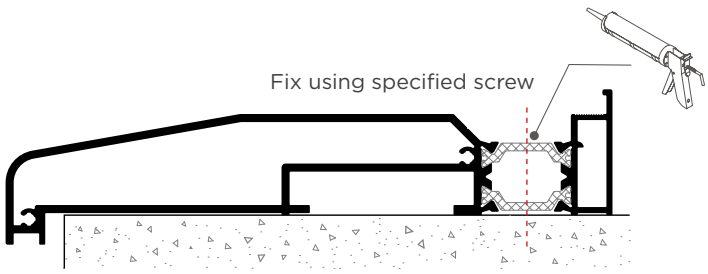
- The need for any sub-cill should be determined at the beginning of the project, prior to order.
- The size of the sub-cill should be as such that there is an overhang of at least 25 mm from the face of the building.
- The installer should determine how the sub-cill should be fitted, taking into account features such as horns.
- Using low modulus silicone, seal the ends of the cill section.
- Install the end caps as shown below.

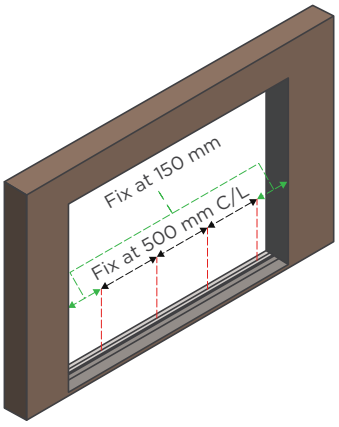


- Place the sub-cill on to the aperture.
- Use a spirit/laser level or a string line to assess the level of the sub-cill.
- Temporarily place the required packers under the cill, check the level and adjust if necessary.

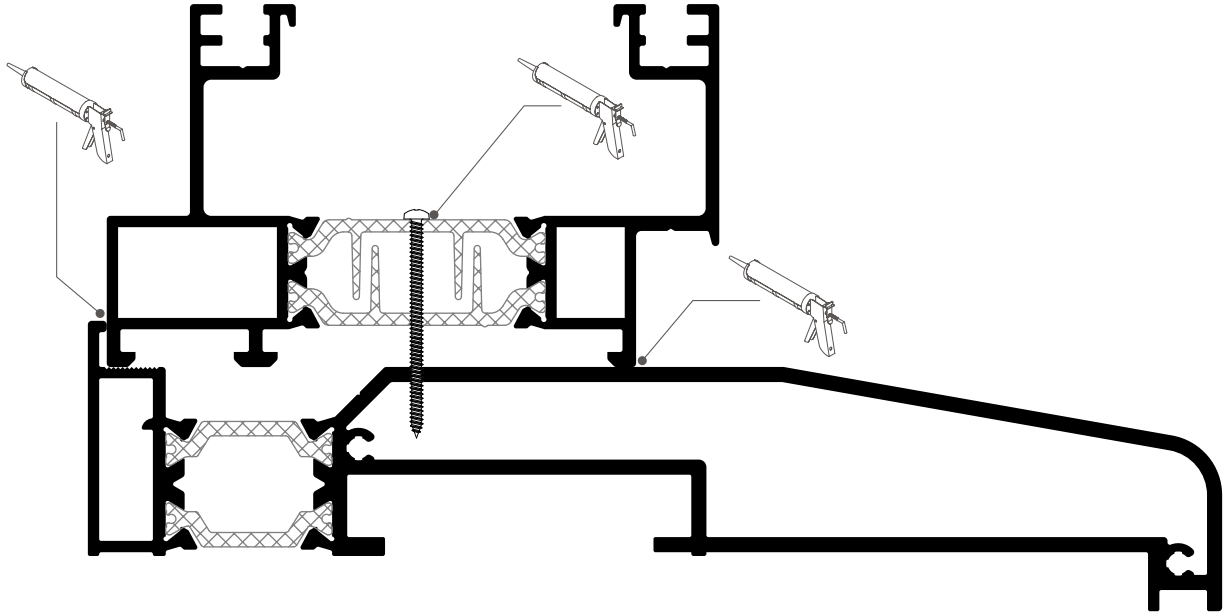


- Use specified fixings to fix the sill through the thermal break at minimum 150mm from each end, with spacing every 500mm centres.
- Fill each fixing hole with low modulus silicone before inserting the fixing.
- Temporarily place the required packers under the cill, check the level and adjust if necessary.

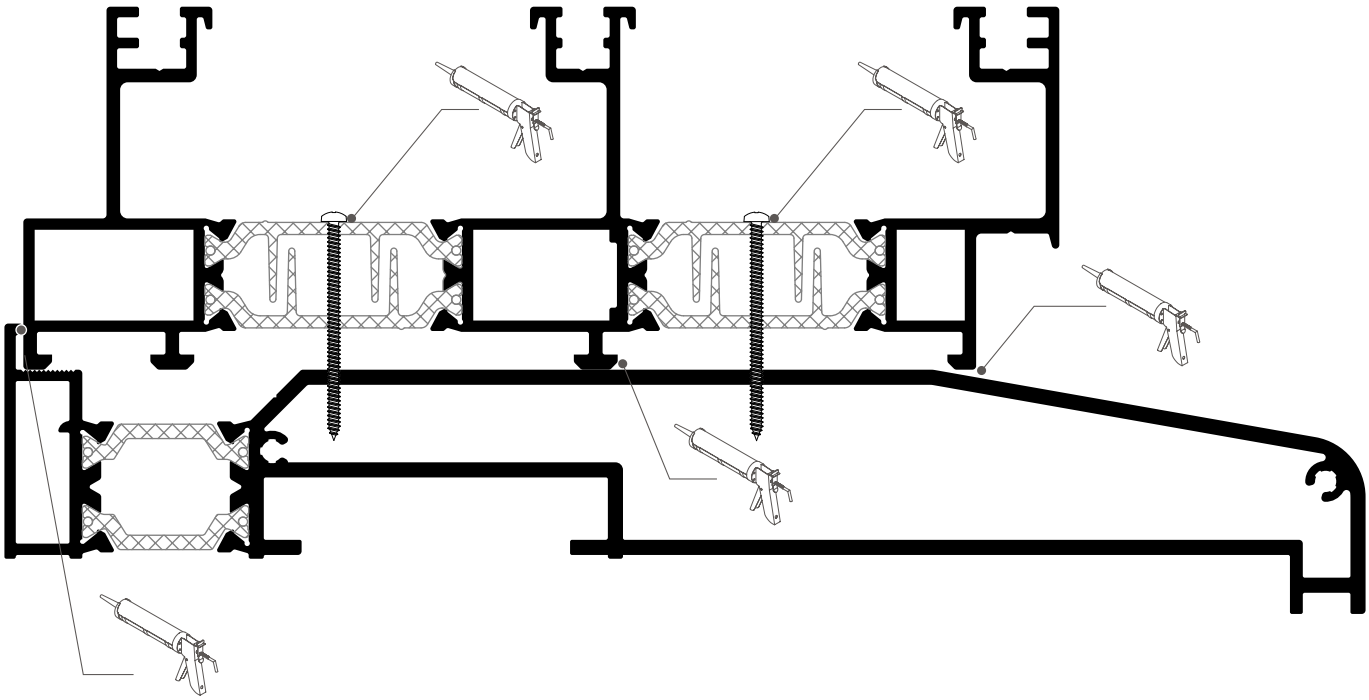




Double Track Cill

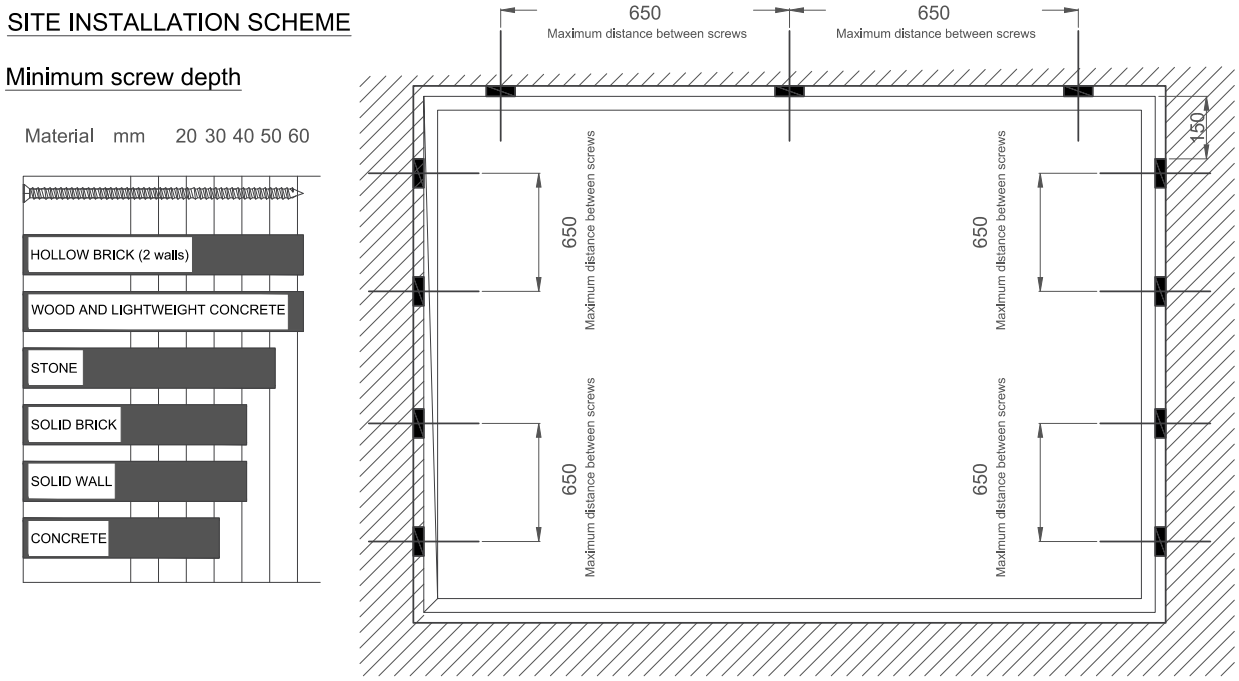


Triple Track Cill

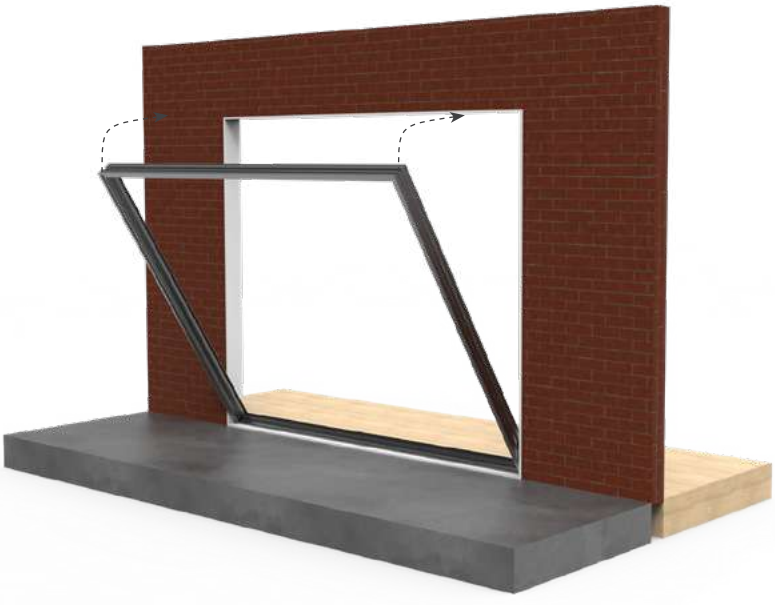


Installing the Outer Frame

While fixing the frame to the structure, it is recommended that the distance between screws does not exceed 650 mm and is a minimum of 150 mm away from corners. The depth of the fastening on site should never be less than 30 mm (Refer to the table of recommendations for use).



- Lift frame into the opening, ensuring drainage is situated externally.

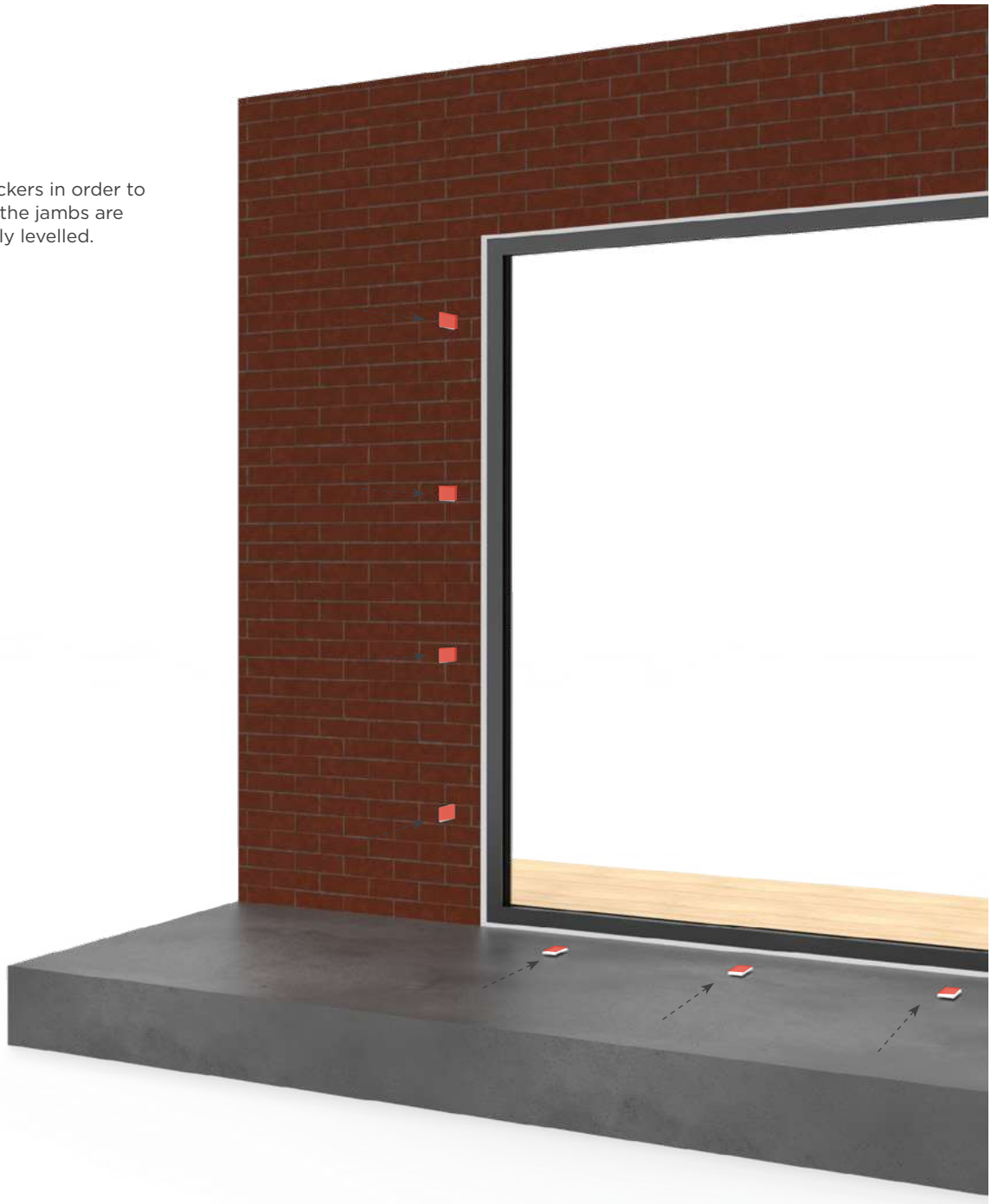


- In case it is incorrectly levelled, insert packers above both jambs for an appropriate levelling and plumbing.



Installing the Outer Frame

- Use packers in order to ensure the jambs are correctly levelled.



- Place packers also along the frame for consistent internal frame sizes. Ensure the frame does not bow in any direction. Ensure that the building does not transmit any load to the frame.

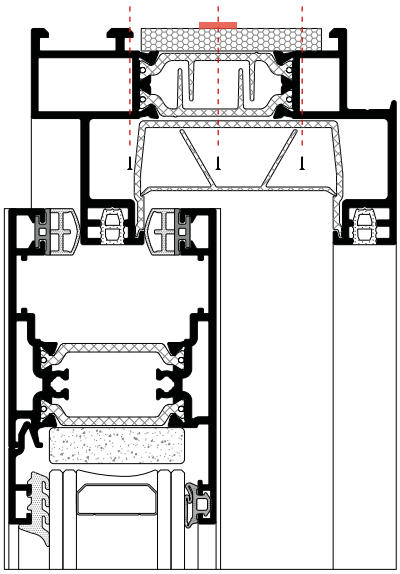
NOTE: The bottom frame must not move while the sashes are shifting.

Installing the Outer Frame





- Level out jambs in both directions.





> **NOTE:** It is advisable to screw the aluminium profile. If the polyamide is reached, packers are needed.

- If possible, fixing points should be on both sides of the frame, in a zigzag pattern.

Installing the Outer Frame

- Drill an appropriate sized fixing hole through the frame.
  This should be no less than 150 mm from the external corner of the frame.

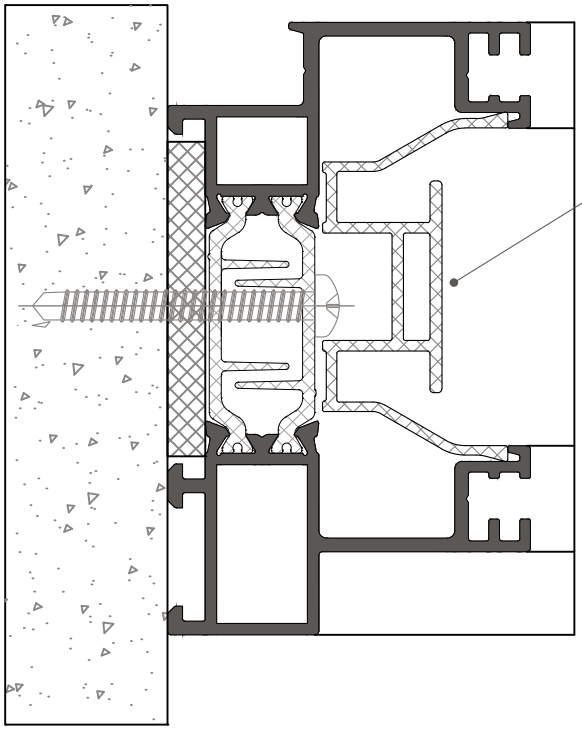


- Place a suitable sealant in the fixing hole. Subsequently, screw the fixing in place.
  Repeat the process along the bottom track, ensuring screws are positioned at maximum 650 mm intervals.

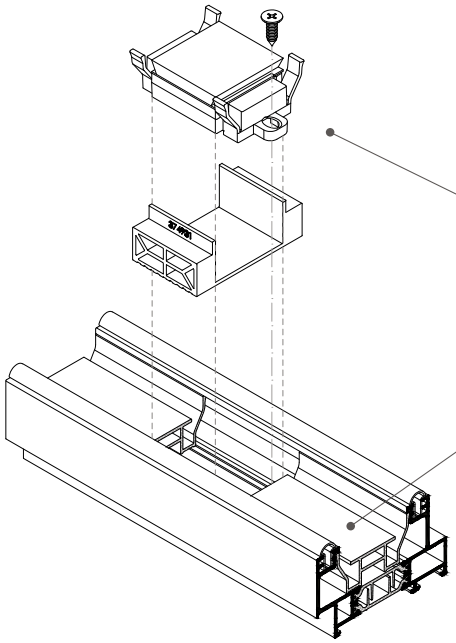
  Repeat the steps on the four profiles of the frame (horizontal and vertical), so as to properly fix it to the wall.



Installing the Frame Cover



Install the left and right hand jamb plastic cover strip.



Centralise wind seal kit and screw to frame.

Install the bottom plastic cover strip (drained).

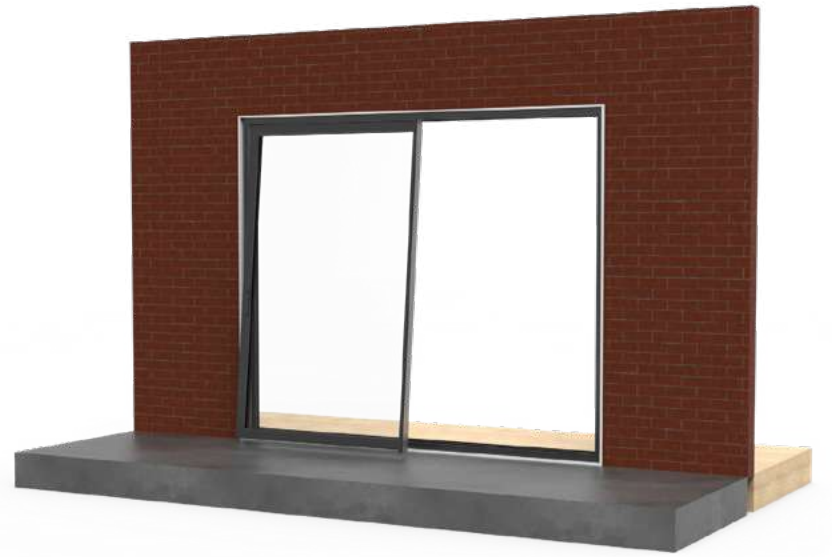
NOTE: Do not install the top section cover strips.

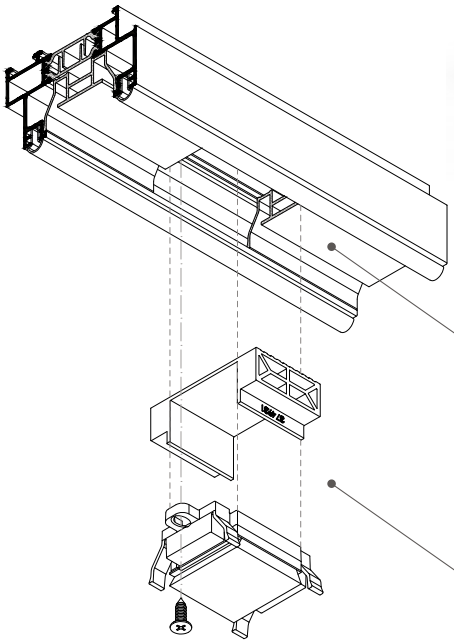
Installing the Sash

- Insert the opening sash top into the top rail groove.



- Swing bottom of sash above running gear.





- Slide the opening sash to the opposite side and install plastic cover strip. Slide back to original position.
- Centralise wind seal kit and screw to frame.

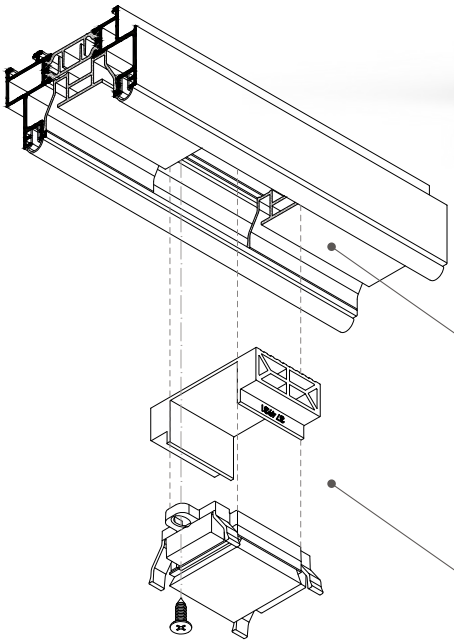
Installing the Sash

- Insert the fixed sash top into the top rail groove.



- Swing bottom of sash above running gear.

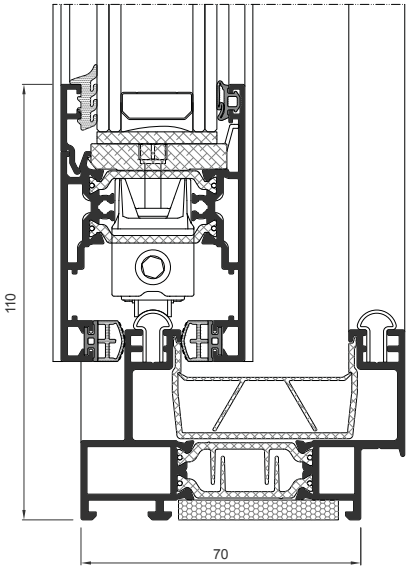


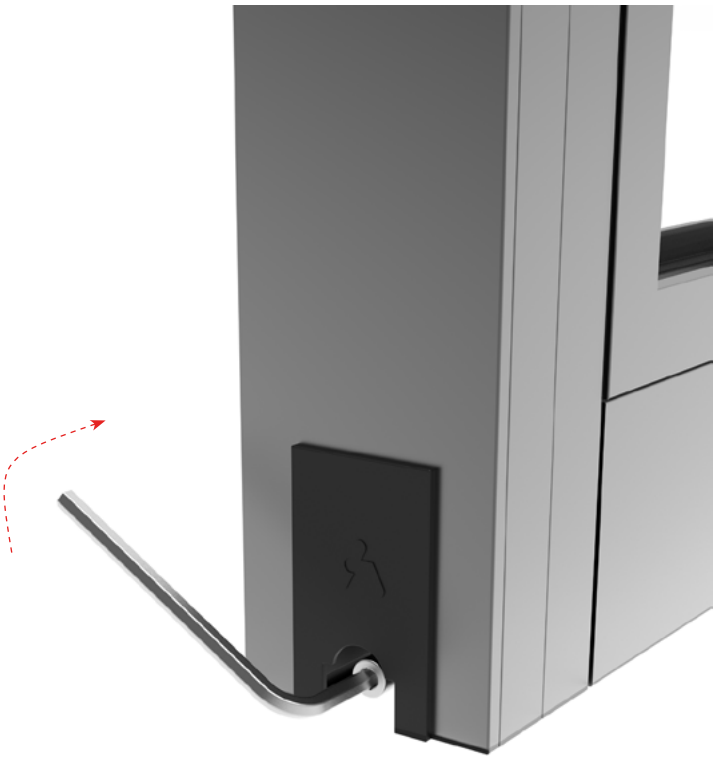


- Slide the fixed sash to the opposite side and install plastic cover strip. Slide back to original position and screw into place.

- Centralise wind seal kit and screw to frame.

Adjusting the Sash



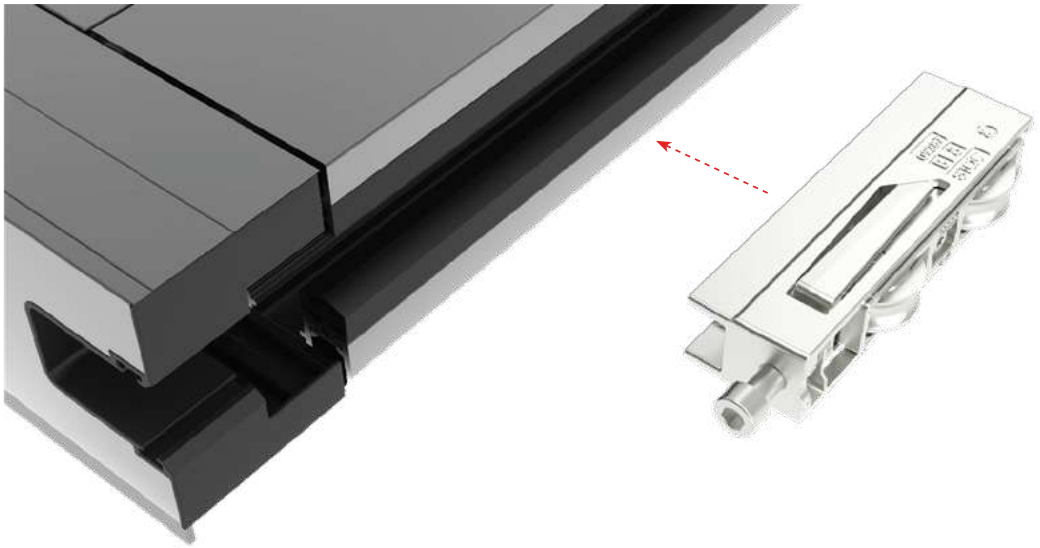


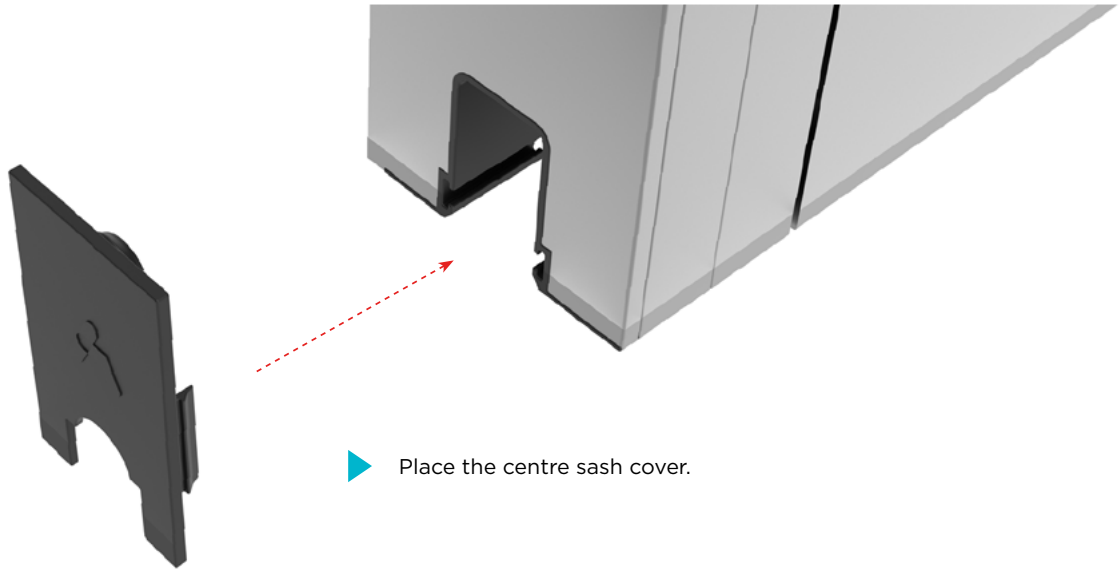
NOTE: Adjust according to the indications in the catalogue.

- Adjust the wheels with an Allen key after the sash has been installed.



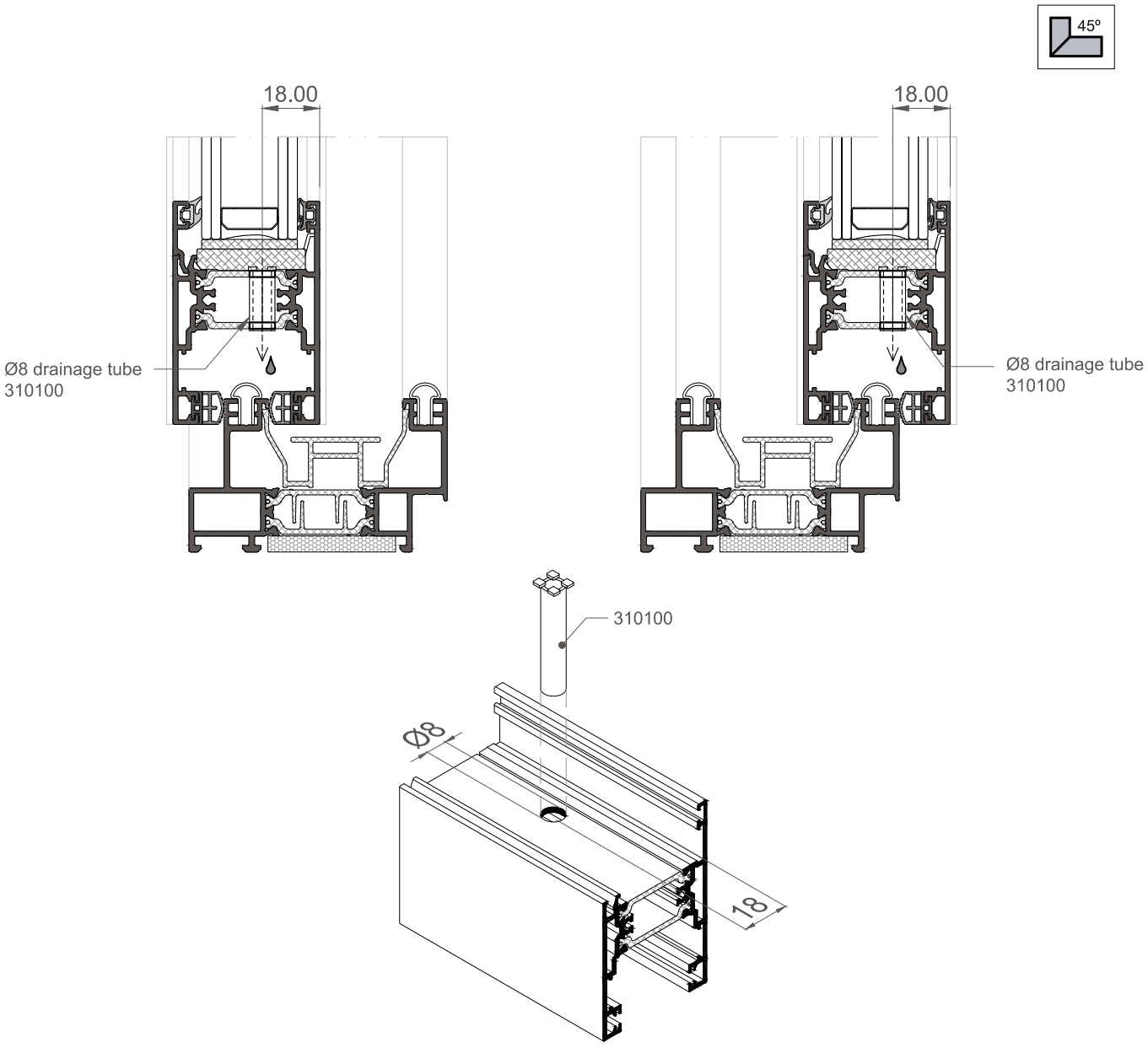
Wheel Adjuster





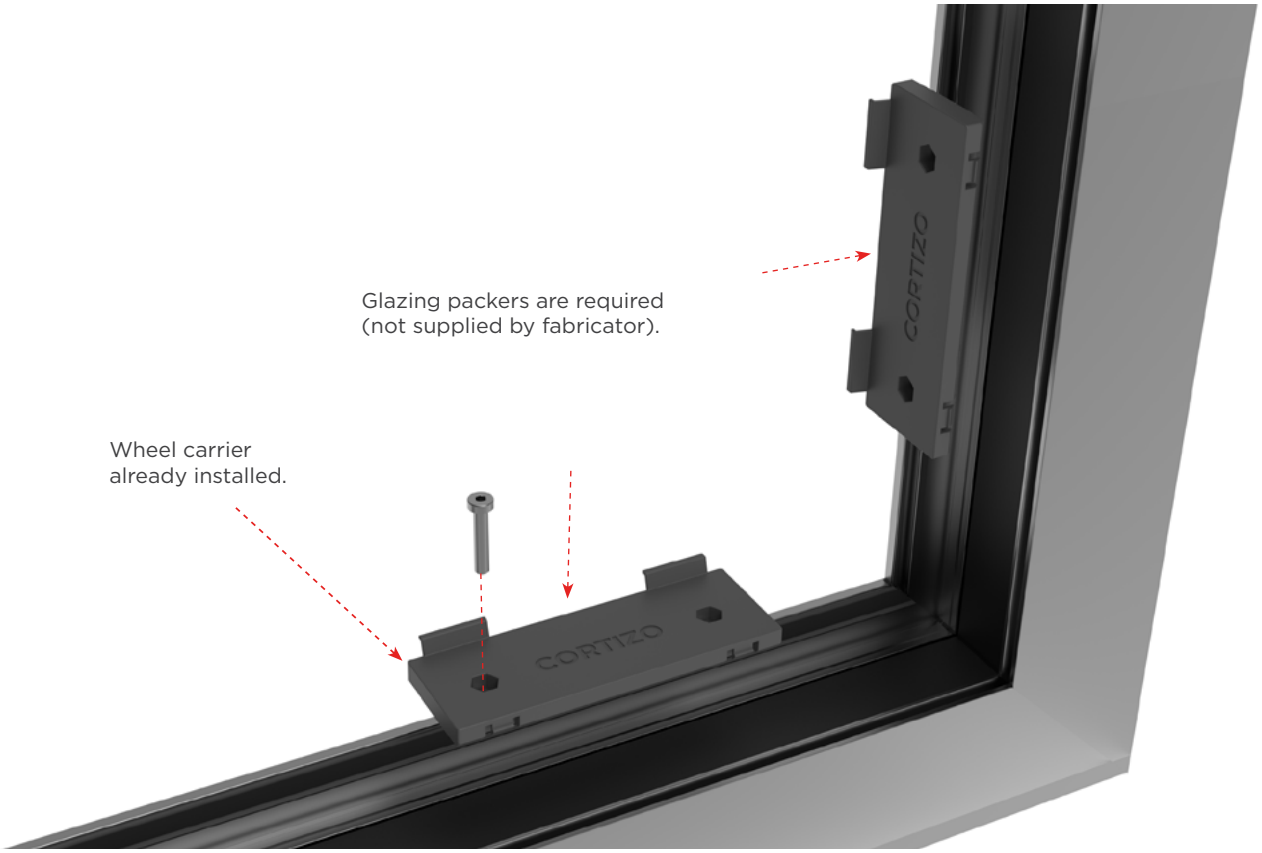
- Place the centre sash cover.

Drainage System



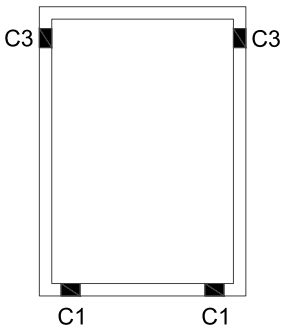
NOTE: Before glazing, we recommend testing the drainage channel by pouring a small amount (around a glass or bottle, at a slow pace) of water in the bottom of the door sashes and frame, ensuring it empties via the drainage holes. and caps.

Glazing

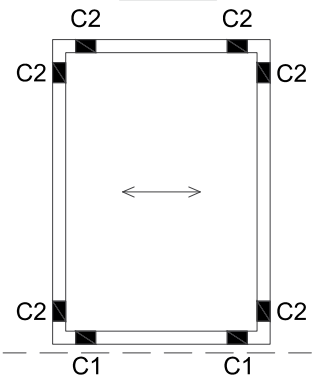


IT IS RECOMMENDED TO POSITION THE GLAZING PACKERS ACCORDING TO THESE CONFIGURATIONS:

FIXED



SLIDING



Glazing packers must be placed towards the inside of the bearing points.

Name of the glazing packers:

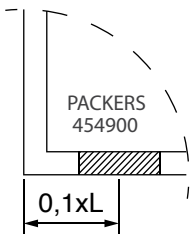
C1 = Support glazing packers

C2 = Perimeter glazing packers

C3 = Security glazing packers

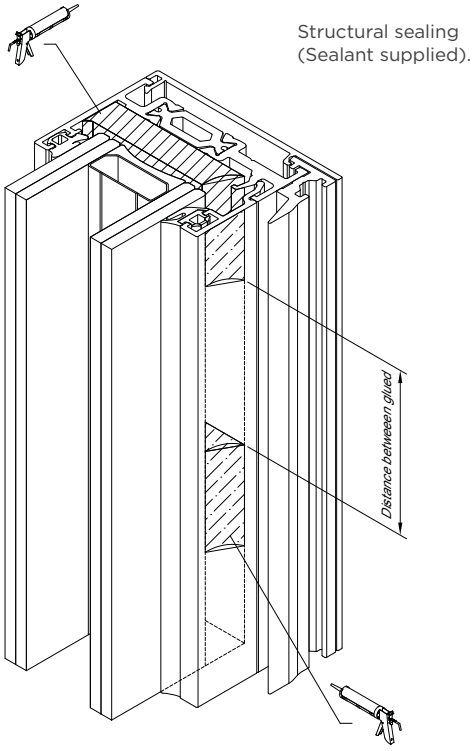
Notes:

- The glazing packers must be fitted as shown in the sketch shown above, without adding other glazing packers in different positions.
- The distance between the axis of the glazing packers and the edge of the glass will be approx. L/10 (L = length of the glass).

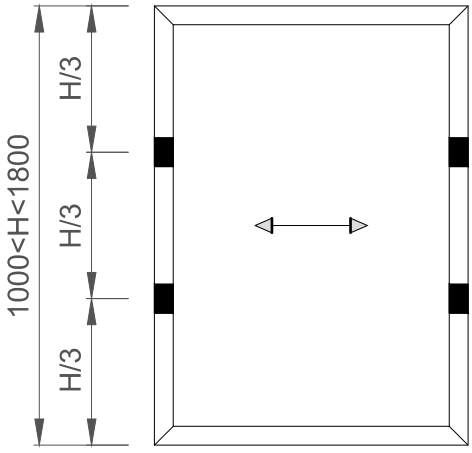


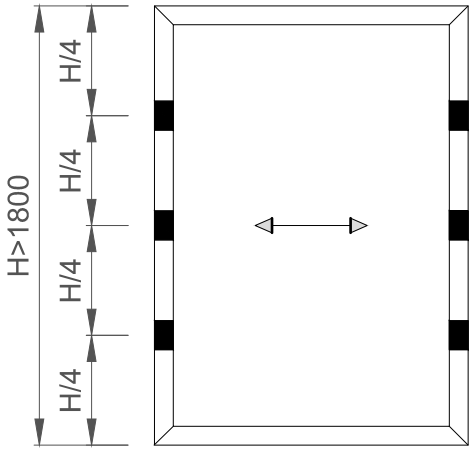
- Apply sealant on interlock side.





NOTE: Structural Silicone should be applied as per calculations below (example of 2-pane shown).

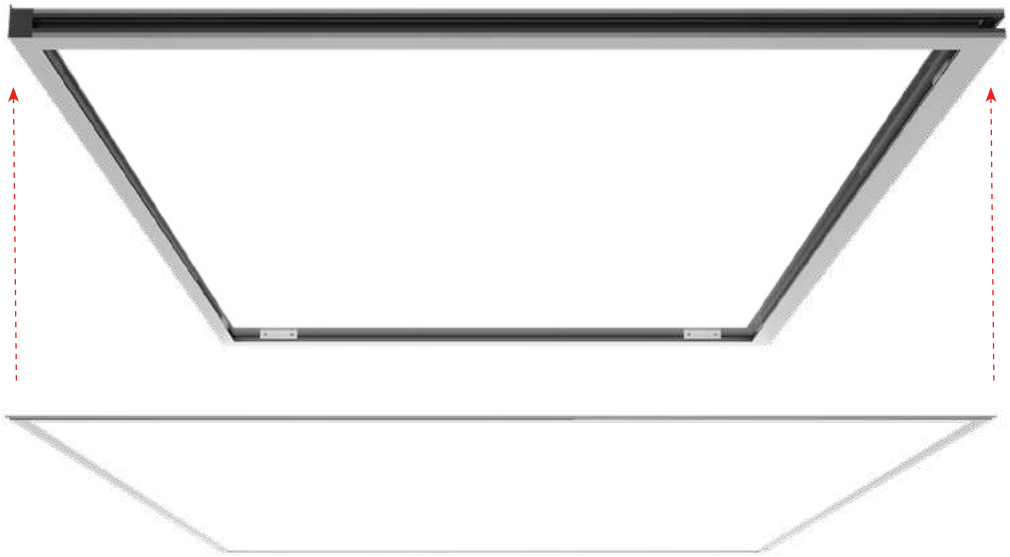




Insert the glass into the sash.



Clip the glazing beads.



Stopper

Before screwing the stopper to the sash, open the door until the handle is a hands width away from the interlock. Mark the position of the stopper on the bottom of the other sash and pre-drill the guide hole.



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