Installation manual

AW60 Curtain wall

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1. Tools for the installation:

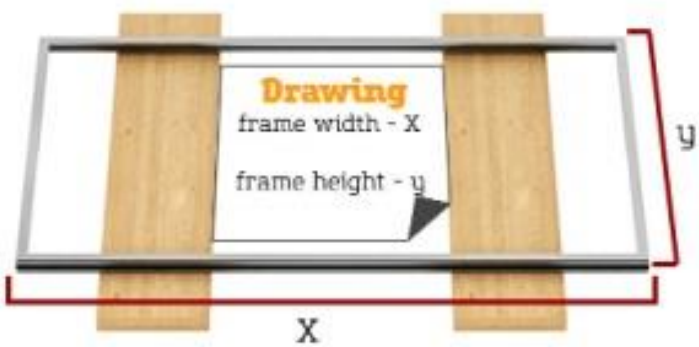
- T35 Torx screwdriver for concrete screws
- Heavy duty glass handling tools
- Non-metal hand wedge
- Gasket roller
- Knife
- Tape measure
- Spirit Level
- Rubber Mallet
- Open 21 mm combination wrench

2. Materials for the installation:

- Insulating material – preferably mineral wool
- 7,5 concrete screws (normally supplied with constructions
- Silicone (White or black, dependent on construction color). Standard silicone works great.

3. Unpacking

All of the ALUFLAM's aluminum constructions are shipped in thermally treated wooden boxes. Prepare a dry, clean place for placing the box prior to opening it. Aluminum constructions cannot be placed on concrete, tile or other abrasive surfaces. A wooden plank or piece of packing carton can be used for construction placement.



4. CONSTRUCTION

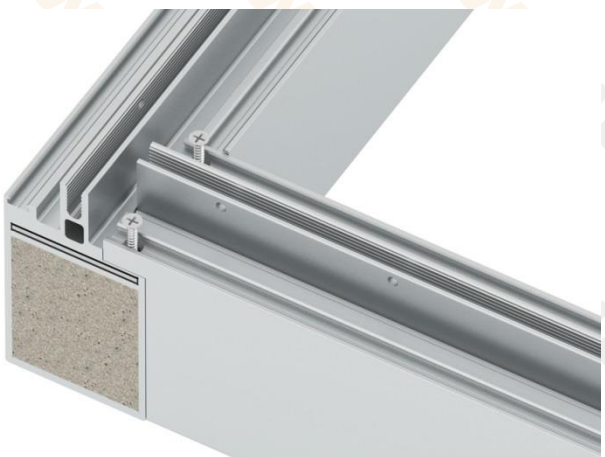
4.1 Assembly of the construction
(*Skip to 4.2 if construction came assembled*)

4.1.1 Take the corresponding mullion profile and corresponding transom profile and put them besides each other. Using silicone gun, apply silicone on the edges of the transom and join the transom on top of mullion.

Pic. 4.1

Pic. 4.2

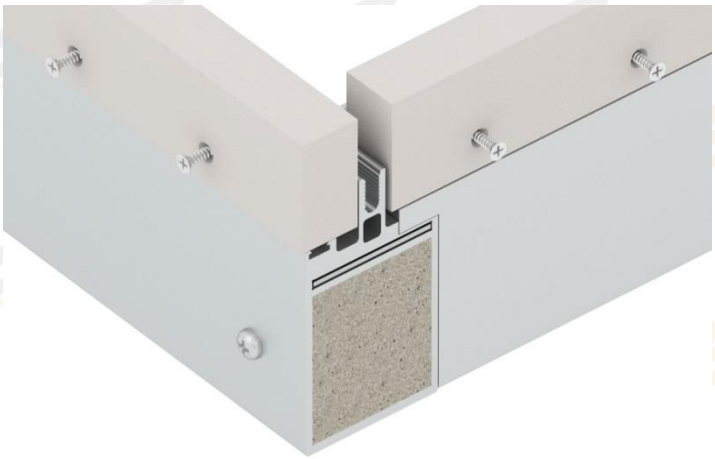
4.1.2 Using a Philips head driver, screw in the supplied DIN 7981 screws, to keep the transom profile connected to the mullion. Using a driver with Philips head screw, or T30 hex head, screw in the 7,5 supplied screw to the end of the transom profile.



Pic. 4.3

Pic. 4.4

4.1.3 After doing the same procedure for all 4 corners, a gypsum level profile can be attached to the profile. This is done by attaching the profile to the mullion/ transom by supplied DIN7981 screws. This is done only for the outer perimeter of the curtain wall profile.



Pic. 4.5

4.1.4 Take the supplied supporting gaskets and install them to the groove on the mullion/ transom profile. Apply silicone to the very corners of the profile joints, under the place where the gaskets meet each other.

Pic. 4.6

4.2 Positioning and anchoring of the construction

4.2.1 After the assembly of the construction, place it on a flat level surface and check the diagonals, overall dimensions of the frame, so it is square and even. Slide it in to the opening.

Pic. 4.7

Pic. 4.8

4.2.2 Depending on the fixation type, predrill holes in the opening for the 7,5 concrete screws in the corresponding positions. Make sure the frame is square and even, then anchor the frame with the supplied anchors using the 7,5 concrete screws.

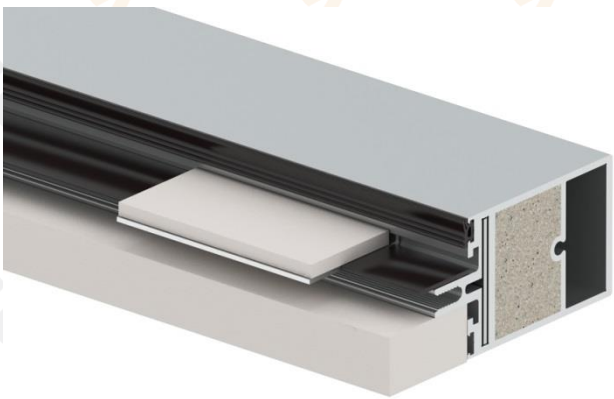
4.3 Construction glazing

4.3.1 To install the glass, glazing bridges (glass support) have to be installed in first place. This is done by sliding the bridges in the special groove in the transom profiles. Glass support s are installed only in the bottom transom profile, on both ends of the profile (pic. 5.2).

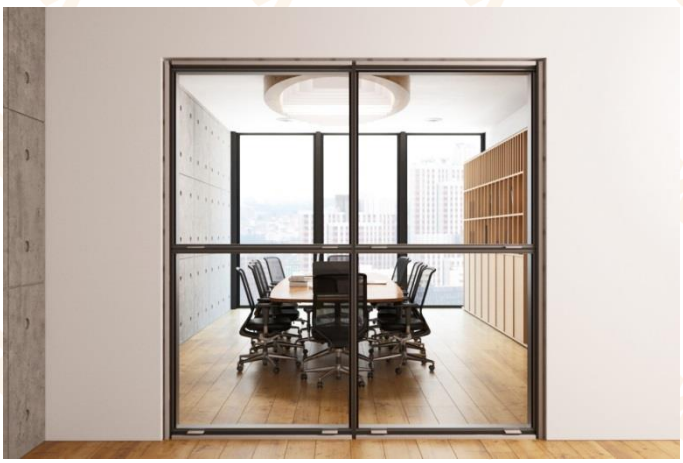
Pic. 4.9

Pic. 5.0

4.3.2 On top of the glazing bridges, Promatect H or L glazing bricks are installed, to support the glass weight on top of the glazing bridges. Glazing bridges and bricks are placed in the positions as shown (pic. 5.2).



Pic. 5.1



Pic. 5.2

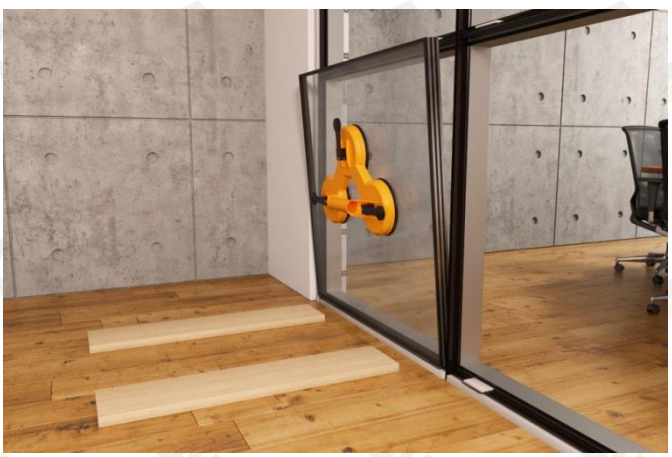
4.3.3 Normally ALUFLAM glass comes packed in wooden boxes, before opening and unloading the boxes, prepare a wooden or paper support for unloading the glasses on the ground.

Pic. 5.3

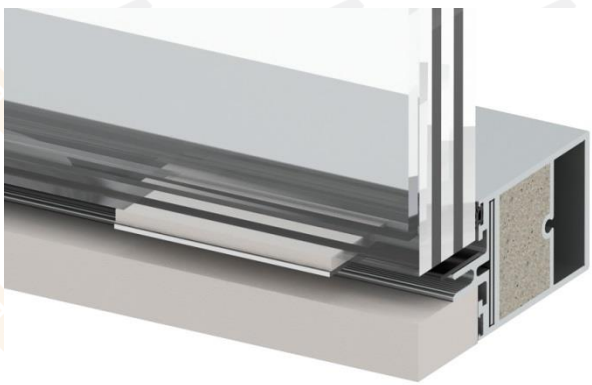
Pic. 5.4

!NOTE!
When glazing units have a firerated glass (FIREBLOCK OR CONTRAFLAM), great attention must be paid for positioning the glass – FIRERATED GLASSES MUST BE POSITIONED INSIDE

4.3.4 On top of the glass supporting bricks, glass can be loaded as shown in pic. 5.5 It is better to start the installation from the bottom part of the construction.



Pic. 5.5



Pic. 5.6

4.3.5 After all of the glasses are installed in they're place, the installation of the pressure plate is now possible. A pressure plate consists of the plate, AF fire rated infill and glazing gasket. It is necessary to install the gasket to the plate before tightening it onto the profile. This is done by 7,5 concrete screw. Pressure plates have predrilled holes from the factory.

Pic. 5.7

Pic. 5.8

4.3.6 After the pressure plate is fully tightened with all the screws in their places, a profile cap on top of the pressure plate can be attached. This is being done by pressing the cap profile perpendicular to the pressure plate surface (pic. 5.9).

Pic. 5.9

4.3.7 When the above steps are finished, the finishing works can be done. This, for a fireproof construction includes mineral wool installation in the GAP between frame and wall. Preferably, silicone caulking can be done. This ensures long-life tightness of the construction and its surroundings.

Pic. 6.0

Pic. 6.1

Pic. 6.2

Pic. 6.3

For more information on a specific issue, query or any other technical issue, please use ALUFLAM's dedicated database, which can be found on the below link:

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