

INSTALLATION MANUAL OF ALUMINIUM OPENING FILLERS

1. Introduction

We recommend to have the window installed by an experienced professional. This manual gives general guidelines for the installation of windows, mainly focusing on non-openable and openable windows and doors. Depending on the window, the requirements of the construction design project and the structures, the instructions of the written guidelines may differ at places.

2. Preparation for the installation

- Upon the transportation of windows avoid any damage to the windows and cover the window with plastic, cardboard or any other suitable material.
- The window has to be fixed in the ready-made opening. Be sure that the reveals of the opening are dry and free of any debris, dust, snow, ice or etc.
- For the perfect installation of the window it is extremely important to have precise measurements. Measure the window and the height and width of the constructed opening. The optimal mounting gap between the constructed opening and the jamb has to be within the range of 15-20 mm, in case of a smaller or bigger gap the constructed opening has to be adjusted accordingly.
- The support structure bordering on the constructed opening must enable solid and proper fixation of the window and bear the loads generated by the window without any deformation.
- Attention should be paid and window surfaces should be protected from the cement and lime water, which, due to their cauterising features, may damage aluminium and glass surfaces.

3. Installation

The window should be installed by at least two people.

3.1. Fixing the jamb to the support structure

- a. Lift the glassless window into the constructed opening and be sure that it does not fall out of the opening on the other side.
- b. Place the window at the foreseen distance from the exterior surface and see that the mounting gap is even along the entire perimeter of the jamb. For that purpose use mounting blocks by placing them under the lower edge of the jamb. Measure the horizontal position of the window by level and adjust the support of the window with mounting blocks if necessary
- c. Fix the window through the fixing holes in the upper corners to the support structure. To fix the jamb use either \varnothing 10 mm concrete anchors or \varnothing 7.5 mm screws and matching dowels if necessary. In general the mounting holes of the

jamb are pre-drilled in the factory but in some cases it is possible to install the window by using special gussets.

- d. In case of an openable window and door, adjust the window sheet and the jamb parallel to each other.
- e. Fix it through the mounting holes in the lower corners of the jamb to the vertical support structure and see that the window is vertically level.
- f. In case of an openable window and door, check how the sheet opens and closes, adjust the fixings if necessary.
- g. Fix the jamb through the rest of the mounting holes. It is important that the window is fixed through all holes pre-drilled in the factory.
- h. In case of an openable window and door, check once more the opening and closing of the sheet and the proper operation of the locking stile.
- i. In case of an openable window and door place covering plugs on the mounting holes in the jamb.

3.2. Glazing

In general the glazing of the window is performed upon installation.

- a. Push and fix the base blocks in the foreseen places in the opening.
- b. Mount distance blocks on the lower base blocks.
- c. Lift the glass into the opening by applying suckers.
- d. By using a glazing shovel install the rest of the distant blocks to fix the position of the glass. Push the side and upper distance blocks in between the glass packet and the base blocks.
- e. Use the glazing hammer to fix the glass slats.
- f. Press the glass gasket between the glass slat and the glass.

3.3. Packing of the mounting gap

- The mounting gap between the jamb and the wall is sealed with mounting foam. Use only the low-expansion weatherproof mounting foam foreseen for the installation of windows and doors.
- To simplify the elaboration of the interior reveals of the window later, do not apply the mounting foam within a 5-mm deep mounting gap reaching up to the edge of the jamb.
- After filling the mounting holes with the mounting foam the openable window and door must not be opened within 24 hours to ensure that the window structure is irretrievably fixed.

4. Cleaning

- After the installation and elaboration work the window has to be cleaned. Cleaning may often damage the coverings and due to that the guidelines in "THE USER AND

MAINTENANCE GUIDELINES FOR ALUMINIUM CONSTRUCTION SYSTEMS” issued by OÜ Koduaken must be followed.