# Facade system CARBOGLASSPRO. General installation principle.

Curtain wall can be fixed to window sash or to external surface of walls. Modules are fastened to bearing structures with the help of frame and cappings, if necessary. The frame section is installed along the perimeter of the opening. The narrow frame section is fastened along a facade bottom edge (lower facade frame); wide frame is fastened on both sides and above (upper facade frame). Depth of a groove of the narrow frame section makes 30mm; of wide frame section - 60 mm. The module's length is 60 cm bigger than the distance between the lower and the upper sections in the light. The facade should be mounted in consecutive order; usually - from the left to the right. At installation, the module is firstly installed in a groove of the upper frame and is then lowered into the lower one (like glass inserted into a book shelf). Thus, the width of resting of polycarbone module on a frame from above and from below makes 30mm. The first module is pushed all the way in into the left vertical profile. If opening's height requires additional fastening of modules to spans, then cappings are installed after module installation into places of crossing of module and spans.

The following modules are installed in the same way. When all modules are installed, a seam between modules and a frame is sealed with У1 sealant from the outside. Construction internal vertical joints between the front F40 modules can be additionally sealed by У2 sealant.

*More detailed information on installation sequence is presented in step-by-step instruction*.

Components of the system:

1. Facade module
2. Frame
3. Cappings
4. Sealant
5. Perforated tape
6. У-1 sealant
7. У-2 sealant

*More detailed information on CARBOGLASSpro components is presented in product specification*.

# CARBOGLASSPRO roof system. General installation principle.

Modules are fastened to roof latten with the help of cleats and are connected with each other by E-shaped frame. Installation is carried out in consecutive order; usually from the left to the right. If there is a cornice then this section is mounted first of all. The first panel is installed. Its left edge is fastened to latten by means of a frame, aluminium connecting section, or rolled-formed steel section. The right edge is fixed on latten by cleats. The second panel is installed and fixed with cleats. Thereupon, connecting E-shaped frame is installed. The rest of the cover is mounted in the same way. The last panel is fixed on the edge of the cover, similar to the first one. Lower edge of the roof is fixed by cornice section, flashing, or thermal washers. The upper edge is fixed by ridge element. A joint between ridge and cornice sections and modules is sealed with polyethylene foam sealing tape or other sealants.

*More detailed information on installation sequence is presented in step-by-step instruction.*

1. Roof module
2. E-shaped section
3. Cleats
4. Cornice section
5. Sealant
6. Perforated tape
7. Plug for E-shaped section
8. У-1 sealant

Depending on chosen type of fastening and on a kind of bearing structures, you may also need the following accessories:

1. Self-tapping screws (for metal or wood) 5,5х25 (for fastening of cleats and section to metal or wooden spans) with wrench head (8mm)
2. Self-adhesive tape made of butyl, neoprene or polyethylene foam (for sealing of joints frame section and concrete bearing structure)
3. Anchors for fastening of frame section to concrete
4. Silicone neutral sealant (for hermetic sealing of joining of translucent structure to blank parts of the facade)
5. Silicone grease (for easy joining of panels)
6. Polyethylene foam sealing tape for sealing of joints of flashings and water bars
7. Roll-formed steel elements - apexes, water bars, flashings, etc

*More detailed information on mounting diagrams can be found in the Album of joints*

# Required tools:

1. Metal drill 4,5-5mm
2. Screwdriver with wrench bit of 8mm
3. Electric fretsaw with saws for aluminum and plastic or a circ saw
4. Vacuum cleaner or compressor (for removal of chips at cutting of stones)
5. Hobby knife (for cutting of tapes and sealant)
6. Rubber mallet 900g
7. Tape measure
8. Marker
9. Level gauge, plummet
10. Rags