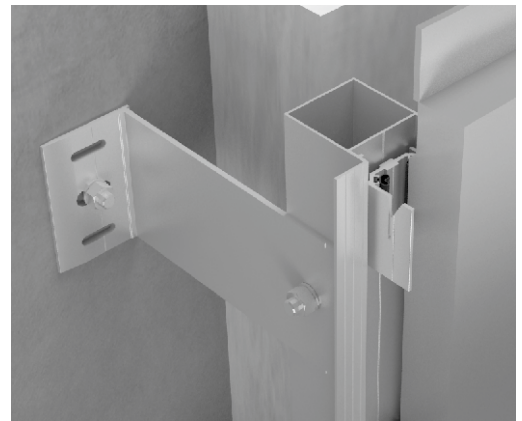




TECHNICAL SYSTEM DESCRIPTION

Aluminum substructure system designed for the installation of specially formed cassettes fixed using concealed brackets and connecting elements in the form of small box-shaped aluminum tubes (box profiles), after which the system is named. The system is particularly suitable for vertical cassettes. The installation process is dry, and complete panel preparation can be carried out under workshop conditions. The prepared cassettes are installed on site by positioning them according to the predefined façade layout.

The installation process begins with surveying and marking the positions of the load-bearing profiles.

- a) Extruded load-bearing profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 1200 mm.
- b) The Box system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) Fixing of the vertical load-bearing profiles (cat. no. V01, V134, V88) is carried out using anchors that allow fine adjustment of the aluminum profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws with secured joints. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) Sliding brackets (cat. no. V51) are installed into the dedicated groove of the omega profile. Once installed, they serve as the main connection points between the substructure and the pre-formed cassettes.
- e) Façade panels are processed on a CNC machining center under workshop conditions (cut to size and grooved as required). The processed panels are then bent to form cassettes. Finally, box profiles (cat. no. K2020) are fixed into the corners of the finished cassettes using pop rivets.
- f) The prepared cassettes are installed on the façade, with each cassette being “locked” into position using an upper and a lower bracket. The system provides for a 14 mm panel gap, and façade installation is carried out from bottom to top.

* These dimensions are supported by standard VENT system anchors. For larger offsets, please refer to the technical catalogue (sections 5.19-5.24) and the TMT catalogue.