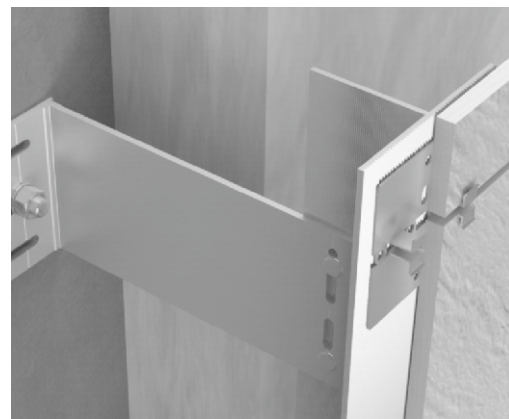




TECHNICAL SYSTEM DESCRIPTION

Aluminum substructure system designed for the installation of flat panels (most commonly porcelain stoneware) fixed using visible or concealed front-facing brackets, so-called stainless steel “clips”. Depending on project requirements, the clips can be powder-coated in a specified color according to the RAL color chart.

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 Stone system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) Fixing of the load-bearing vertical or horizontal T-profiles (cat. no. V06, V07, V08, V20) 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. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) After installation of the vertical profiles, stainless steel load-bearing plates are installed at the intersection points of the horizontal and vertical panel gaps. The plates are fixed to the vertical profiles using self-drilling stainless steel screws.
- e) In parallel with the installation of the stainless steel plates, the façade panels are installed by resting them onto the plates. It is recommended to apply a spot-wise layer of dedicated PU adhesive to the plates prior to panel installation in order to increase stability under wind loads and to neutralize micro-vibrations between the ceramic panels and the stainless steel supports.
- f) Panel processing is carried out by cutting the panels to installation dimensions. For porcelain stoneware, standard panel formats ranging from 450 × 450 mm to 1200 × 1200 mm are typically used. In the case of concealed fixing (porcelain stoneware, natural stone, HPL, etc., with a thickness of 10 mm to 20 mm), panel edges must be processed by cutting slots. It is recommended to fill the slots with a dedicated sealing compound after installation of the concealed clips. Prior to selecting porcelain stoneware, confirmation must be obtained from the manufacturer that the material is reinforced and suitable for installation within a ventilated façade system. The system provides for a panel gap ranging from 6 mm to 9 mm.

* 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.