



TECHNICAL SYSTEM DESCRIPTION

Aluminum substructure system designed for the installation of flat panels fixed with visible front-facing connections using pop rivets or screws. The fasteners may be equipped with special decorative heads to create a distinctive façade effect or powder-coated to match the cladding color in order to remain as discreet as possible. The system offers high flexibility in the selection of cladding materials, design, and aesthetic expression, including the possibility of combining irregular shapes and forms on the façade.

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

- a) Extruded load-bearing T or L 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 Rivet system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) Façade cladding panels with a thickness ranging from 1 mm to 25 mm are supported.
- d) Fixing of the load-bearing T or L profiles (cat. no. V06, V07, V08, V20, V95, L4060, L6060) 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.
- e) Façade panels are cut to the required dimensions, with optional drilling of precisely positioned fixing holes (taking into account thermal expansion of both the substructure and the cladding). The prepared panels are installed on the façade using pop rivets or screws, which may be colored according to project requirements. The system provides for a panel gap ranging from 4 mm to 40 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 TMTP catalogue.