



TECHNICAL SYSTEM DESCRIPTION

Aluminum substructure system designed for the installation of flat panels fixed with invisible front-facing connections using a dedicated double-sided adhesive tape and a system-approved structural adhesive.

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 Tack 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 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.
- d) Panels are cut to precise installation dimensions. Preparation may be carried out on site or in workshop conditions, strictly following the technical instructions of the adhesive and bonding system manufacturer. Profiles and panels must be mechanically cleaned and wiped using the recommended cleaning agents, followed by the application of a primer/activator to ensure optimal adhesion. Double-sided mounting tapes are applied to provide temporary fixation and to control the adhesive layer thickness (approx. 3 mm). The cladding is bonded to the substructure using the dedicated adhesive as the primary load-bearing connection. The prepared façade panels are positioned on the façade with a designed panel gap of 4 mm to 20 mm, depending on the cladding type. For larger-format panels, installation using manual vacuum lifters is recommended to ensure safe handling and precise positioning.

IMPORTANT NOTE: Before starting installation, it is mandatory to verify that all requirements and recommendations of the adhesive and double-sided tape manufacturer are met in order to ensure guaranteed system performance. This includes verification of the recommended cladding type and panel size, environmental conditions (temperature and humidity), proper preparation of profiles and panels, and correct adhesive application.

* 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.