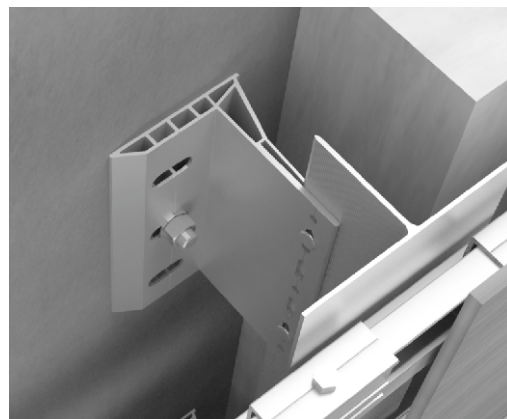
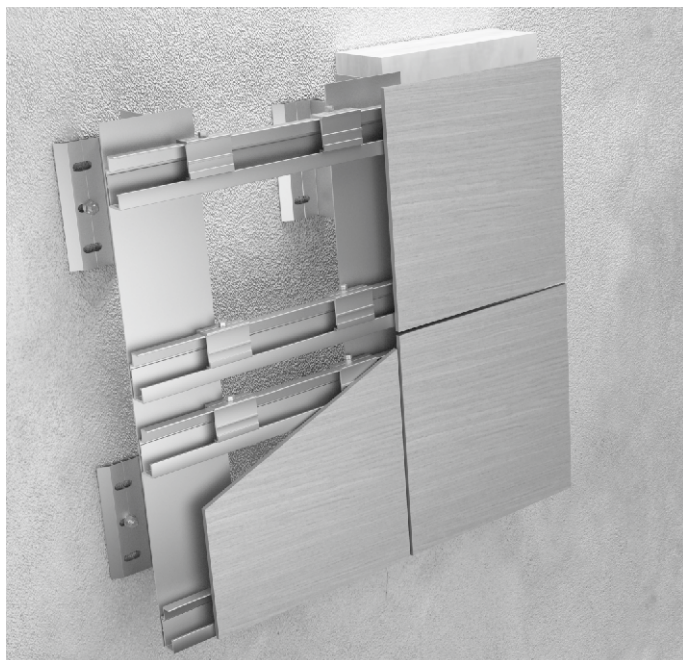




TECHNICAL SYSTEM DESCRIPTION

Aluminum substructure system designed for the installation of flat panels fixed using invisible mechanical connections. The system utilizes specialized fastening elements—anchors specifically engineered for this purpose by reputable manufacturers such as Kiel, Fischer, and equivalent suppliers.

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 Hide system allows the façade cladding to be offset from the wall within a range of 93 mm to 410 mm*.
- c) The primary vertical and secondary load-bearing substructure consists of dedicated anchors and vertical load-bearing profiles (T, L, or Ω) 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, horizontal load-bearing rails (cat. no. V14) are installed. The connections are made using self-drilling stainless steel screws with secured joints.
- e) The selected panel type is processed by cutting the panels to installation dimensions and drilling anchor holes from the rear side using special milling tools at precisely designed positions for the dedicated anchors. In workshop conditions, the panels are further prepared for façade installation by fixing profiled brackets to the panels using anchors, forming a permanent mechanical connection located at least 50 mm from the panel edge. The prepared panels are then delivered to the construction site.
- f) On site, the panels with pre-installed brackets are mounted onto the rails and easily positioned in their designed locations. Final alignment is achieved using adjustment screws, after which the panels are secured to the rail in the upper zone. The system provides for a panel gap ranging from 5 mm to 40 mm, while the minimum panel thickness is 8 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.