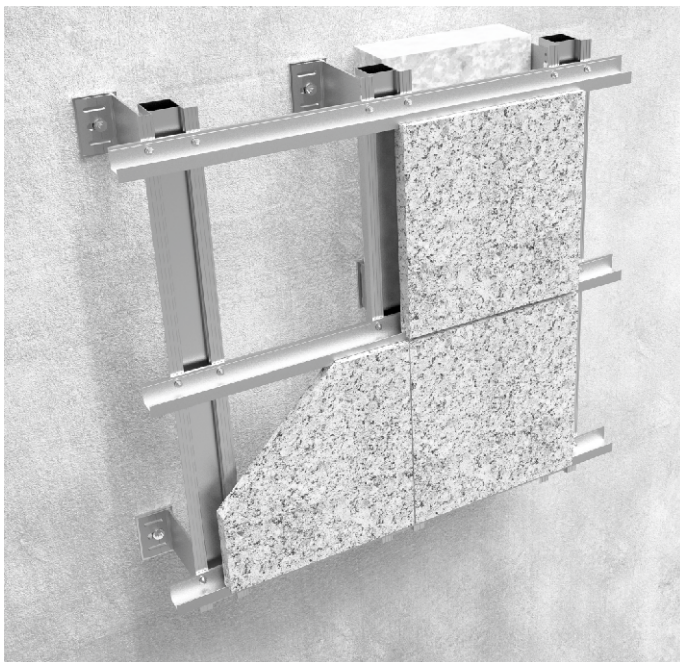




TECHNICAL SYSTEM DESCRIPTION

Aluminum substructure system designed for the installation of flat panels made of natural stone or extruded ceramic, fixed using partially visible horizontal profiles located within the horizontal panel gaps. Depending on project requirements, these profiles may be powder-coated in a specified color according to the RAL color chart. The installation process is dry, simple to execute, and the system is commonly accepted as a standard solution for heavy façade cladding. Minimum cladding thickness is 30 mm for natural stone or 18 mm for extruded ceramic (compatibility of panel geometry with the load-bearing system must be verified).

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 900 mm.
- b) The Rock system allows the façade cladding to be offset from the wall within a range of 80 mm to 250 mm.
- c) Fixing of the primary load-bearing profiles (T, L, or Ω profiles) 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, secondary horizontal aluminum load-bearing profiles are installed at the locations of the horizontal panel gaps. The connection to the vertical profiles is achieved using appropriate stainless steel bolts and nuts.
- e) In parallel with the installation of the secondary horizontal aluminum profiles, the pre-grooved façade panels are installed by resting them onto the profiles. It is recommended to place plastic spacers between the panels and the secondary profiles in order to neutralize micro-vibrations between the stone and the load-bearing profile, as well as to apply a dedicated adhesive where required.
- f) Panel processing is carried out by cutting the panels to installation dimensions and grooving two opposite edges, which will form the upper and lower edges of the façade panel once installed. The system provides for a minimum panel gap of 2 mm.