

Main system parts

- **fixed anchors** - for attachment of system anchors to a wall
- **plastic insulators** - in case of specified thermal break
- **system anchors** - adjustable load-bearing elements
- **load-bearing aluminium profiles** - vertical or horizontal
- **secondary horizontal aluminium profiles**
- **panel fixing brackets**

- **facade cladding** *
- please use specified fastening & installation products according to technical description for final facade installation



Technical description of system

Aluminium substructure system for flat panel cladding with invisible mounting. Specially designed anchors, constructed and manufactured by Keil and Fischer, are used in this system. It is one of preferred ventilated facade systems in modern architecture due to dry installation process, high percent of workshop prefabrication and clean look of a finished building. The only requirement this system imposes is minimal cladding plate thickness of 6mm.

Assembly procedure:

- a) The assembly and installation of facade starts with measuring and positioning of main load-bearing profiles.
- b) Extruded load-bearing profiles are installed vertically or horizontally and spaced according to previously formed facade raster. The maximal recommended length of load-bearing profiles is up to 3,5m (relative to storey height), with maximal horizontal distance of 1,5m between them.
- c) Main T or L profiles (item nr. V06, V07, V08, L4060) are attached by anchoring system that allows fine adjustments in all directions to achieve ideally flat facade. The maximal distance between system anchors is 1,5m (defined with static calculations). System anchors feature easy-installation clips that hold main profiles during initial installation and adjustment. They are then connected to vertical profiles with pop rivets or stainless steel screws, with integrated both flexible and fixed point attachment. In case of specified thermal break, plastic insulators are installed between system anchors and a wall.
- d) Specially designed horizontal profiles (item nr. V14) are installed on the vertical profiles and connected with stainless steel screws.
- e) Cladding panels are cut to the required dimensions and blind mounting holes are precisely machined on the back of the panels (according to panel manufacturer's recommendation regarding the number and spacing of holes), at least 50mm from the panel edge. Special Keil or Fischer anchors are installed into these holes and secured with a small amount of neutral glue. These anchors are used for installation of profiled brackets (item nr. V52) that attach cladding panels to the secondary load-bearing substructure. When installed, finished facade has a clean look without any visible hardware.
- f) The prepared panels are easily mounted on horizontal profiles. System features a 10mm gap and offers fine height adjustment for each individual panel.

Technical details

