



Corian® Exteriors

SPECIFICATION TEXT

June 2018

FIXING CORIAN® CLADDING PANELS

- Corian® Exterior panels are mechanically fixed to a durable (aluminum or Stainless steel) substructure fixed to the external wall of new or existing (retrofit) buildings.
- Corian® Exterior panels must be mounted on an adequate substructure with corrosion resistant fixings in such way the panels are not subject to any kind of tension and can move (expand and contract) freely, relative to one fixation point of each panel.
- The substructure (fixing system) usually used to mount Corian® panels is a mechanical fixing system based on an aluminum grid system, consisting of vertical profiles, mounted on brackets to connect to the wall. The substructure supplier has to check the substrate, according to official construction recommendations
- A static calculation must be shown for the panel dimensions, fasteners, connectors, substructure, wall brackets, and anchoring.
- Wall brackets are designed with both fixed and flexible points to allow for thermal expansion of the profile.
- The cladding panels are hung on the horizontal profile by the clamps that are attached in a concealed (No through fastener) way to the panel with a specific undercut invisible fastener: Keil Ref: 7.555.020.804 anchor AA Hs = 7
- Other fasteners: suitability must be shown with a certification.
- Number and location of fasteners: Consult with your sub-frame supplier for recommendations and details.
- The facade structure must be build according to the construction details. The contractor must present a verifiable structural calculation and construction drawings before installation begins.
- The thermal expansion of the panels must be taken into consideration. In order to avoid tension and possible cracking, the expansion gap (joint width) in the panel must be as large as the expected expansion (rule of thumb: 3mm /meter of panel in all directions)
- Air gap: 20 mm minimum. Consult with your sub-frame supplier for recommendations and details.
- Wall brackets and profiles have to be CE marked according to **EN 1090** of alloy EN AW 6063 T66 , otherwise from a local source according nationally approved standards.