



Corian® Exteriors

SPECIFICATION TEXT

June 2018

ACRYLIC POLYMER COMPOSITE WALL PANEL MATERIAL

- Nonporous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigments
- Manufacturer: Corian® Exteriors by DuPont; www.corian.com/exteriors
- Thickness: [12mm] [19mm (for specific applications)]
- Finish: Provide panel with uniform finish characteristics: [Matte] [Semi-Gloss][Gloss]
- [Thermoform panels in shapes as indicated in Drawings.]
- Colours 2018:
 - [Glacier White] [Designer White] [Raffia] [White Jasmine] [Bisque] [Bone] [Cameo White] [Clay] [Light Ash] [Vanilla] [Deep Anthracite] [Deep Night Sky] [Deep Nocturne] [Abalone] [Aurora] [Dove] [Dusk] [Eclipse] [Everest] [Linen] [Mojave] [Antarctica] [Fossil] [Sahara] [Savannah] [Whitecap] [Glacier Ice] [Mint ice] [Modern White] [Diamond Blue] [Deep Titanium] [Rice Paper] [Warm Gray] [Serene Sage] [Ash Concrete] [Neutral Concrete] [Doeskin Concrete] [Canvas] [Blue Pebble] [Aspen] [Cilantro] [Willow]
- Joint type: [Overlap] [Open] [Seamed]
- Fire rating: [Euroclass B,s1,d0] [Euroclass C,s1,d0]
- Material Warranty : Corian® Exterior panels installation has to be fabricated by an authorized certified EC converter to be covered by the Corian® Solid Surface 20 years Product warranty
- Certification:[CSTB certified, “Avis Technique” including Seismic] [European technical approval – ETA] [CWCT Certified] [Polish ITB technical Approval]
- The fabrication and installation of the panels shall be done in accordance to the technical guidelines as specified in the product bulletin: “DuPont™ Corian® as an external cladding solution”

FIXING CORIAN® EXTERIORS 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® Exterior 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.