

DIRECT ADHERED CLADDING

DKB System

- DEKTON ultra-compact surface by COSENTINO, colour to be defined by Project Management*, of mineral composition and formed by pressing 25,000 Tons (>450 kg/cm²) and subsequent sintering at temperatures around 1. 200 °C, with useful dimension 3.20x1.44 m in standard format, thickness 20 mm / 12 mm / 8 mm and smooth back (fine ribbed texture, without ribs); reaction to fire Class A1 [according to EN 13501], unaffected by UV radiation [$\Delta E < 1$ tested in a Xenon chamber at 5000h], with thermal conductivity < 0.5 W/m- °C [according to EN12664], specific heat < 700 J/Kg- °C [measured with DSC], surface resistivity < 65 TΩ/m [at 1000 V] and must have these mechanical-functional characteristics according to EN 10545: Flexural resistance ≥ 45 N/mm . Density > 2.400 Kg/m³. Porosity < 0.2 %. Linear expansion < 6,5 ·10⁻⁶ °C⁻¹ and Average absorption [according to ASTM C97] < 0.05%. Can be used in outdoor environments, even aggressive ones (petrol, diesel, various solvents) and cleaned with water or other pressurized products, using commercial cleaning products or specific chemical agents (e.g. sulphuric acid, bleach, hydrogen peroxide, acetone, caustic soda) in the case of persistent stains.
- Applied as a cladding for facades, with cementitious adhesive in a thin layer with double glueing type C2TES2 adhesive (according to UNE EN 12004) with improved adhesion, reduced slip, extended open time and very deformable. 3-5 mm wide placement joint, grouted with cementitious mortar with high resistance to abrasion and reduced absorption type CG2AW (according to UNE EN 13888). Expansion joints of the cladding every 16 m² or 4 linear meters, perimeter joints and expansion joints following structural joints of the building.
- Upper end of the façade with a coping piece with water drip, and perimeter joints at the junction.

ETICS INSULATED SYSTEM FACADE

DKS System

- DEKTON ultra-compact surface by COSENTINO, colour to be defined by Project Management*, of mineral composition and formed by pressing 25,000 Tons (>450 kg/cm²) and subsequent sintering at temperatures around 1. 200 °C, with useful dimension 3.20x1.44 m in standard format, thickness 20 mm / 12 mm / 8 mm and smooth back (fine ribbed texture, without ribs); reaction to fire Class A1 [according to EN 13501], unaffected by UV radiation [$\Delta E < 1$ tested in a Xenon chamber at 5000h], with thermal conductivity < 0.5 W/m- °C [according to EN12664], specific heat < 700 J/Kg- °C [measured with DSC], surface resistivity < 65 TΩ/m [at 1000 V] and must have these mechanical-functional characteristics according to EN 10545: Flexural resistance ≥ 45 N/mm . Density > 2.400 Kg/m³. Porosity < 0.2 %. Linear expansion < 6,5 ·10⁻⁶ °C⁻¹ and Average absorption [according to ASTM C97] < 0.05%. Can be used in outdoor environments, even aggressive ones (petrol, diesel, various solvents) and cleaned with water or other pressurized products, using commercial cleaning products or specific chemical agents (e.g. sulphuric acid, bleach, hydrogen peroxide, acetone, caustic soda) in the case of persistent stains.
- Applied as an external thermal insulation system (ETICS/EIFS) coating, fire classification per system supplier according to EN:13501, consisting of Aluminium Starter Profile. Gluing of EPS/XPS expanded polystyrene or Mineral wool insulation sheets with a thickness (mm) to be defined. The insulation sheets to be bonded with adhesive mortar, guaranteeing at all times 100% contact with the surface of the sheet. The insulation sheets to be mechanically anchored with nylon plugs with steel screw with thermally insulated head. The layout and number of fixings will depend on the exposure of the building and its height, with a minimum per system supplier recommendations (pcs/m²). Placement with mortar of Corner Profiles on edges as reinforcement, as well as in openings. Placement of Gutter Profile in surroundings of window openings. Installation of frame profile at the point where the insulation system meets the metalwork. Fitting of a proportional part of the reinforcing mesh in windows and doors corners.
- The surface of the insulation sheets will be covered with a structural reinforced plaster, with Mesh, in fiberglass with anti-alkali treatment and covered with mortar of high ductility and mechanical resistance, mixed with fiberglass and classified R2 according to standard EN 1503-3. Application of Dekton in a maximum format and with minimum joints per system supplier's indications, using Flexible cementitious adhesive type R2T for DEKTON® SLIM PROTEK 4 mm thickness with mesh and C2S2 for DEKTON® 8 mm thickness without mesh according to EN: 12004 and perimeter grouting with Flexible joint mortar type UI CG2 AF W EN: 13888.

Note:

These tender descriptions are generic and need to be adapted and modified to each Project system and solution. They could be extended including detailed information from different elements suppliers.