

DEKTON® Ultra-compact surface

→ 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.

DEKTON® Protek® ultra-compact surface

→ DEKTON PROTEK ultra-compact surface by COSENTINO, colour to be defined by Project Management*, of mineral composition 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 with back side incorporating fiberglass mesh 300 g/m² with epoxy resin; reaction to fire Class A2 s1 d0 [according to EN 13501] for 20 /12/8 mm thickness, 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.

DEKTON® Slim Protek® ultra-compact surface

→ DEKTON PROTEK ultra-compact surface by COSENTINO, colour to be defined by Project Management*, of mineral composition 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 4 mm with back side incorporating fiberglass mesh 300 g/m² with epoxy resin; reaction to fire Class B s1 d0 [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 water absorption [according to ASTM C373] < 0.2%. 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.

RAINSCREEN CLADDING

DKT1 System

- Hidden system. Supporting substructure composed of; metal brackets, adjustable for correction of unevenness compatible with different types of supports, can include thermal break insulator; vertical metal profiles of different sections according to the required application; horizontal metal profiles type C-Carrier/Rail; concealed fixing system by means of Hanger/Clip/Agraffe accessories fastened with undercut anchors to Dekton Panel's back.
- Installation process: Brackets installed on the surface to be covered by means of a mechanical system or welding; vertical profiles installed on brackets with a regulation and fastening system, by means of specific screws*; horizontal C-Carrier/Rail profiles with a regulation and fastening system, installed by means of specific screws* on vertical profiles; Hanger/Clip/Agraffe accessories fixed with concealed anchors to the Dekton panel's back, and mounted on C-Carrier/Rail with a leveling and fastening system.

*Specific screws according to the structural calculation of each project or indicated by the supplier of the substructure.

RAINSCREEN CLADDING

DKT2 System

- Hidden system. Supporting substructure made up of; metal brackets, adjustable for correction of unevenness compatible with different types of supports, can include thermal break insulator; vertical metal profiles of different sections according to the required application; continuous horizontal metal profiles type H-Carrier/Rail; hidden anchorage system by means of continuous grooving in the Dekton Panel for fastening by insertion.
- Installation process: Brackets installed on the surface to be covered by means of a mechanical system or welding; vertical profiles installed on brackets with a system of regulation and fastening, by means of specific screws*; continuous horizontal H-Carrier/Rail profiles with a system of regulation and fastening, installed by means of specific screws* on vertical profiles; positioning of the lower edge of the Dekton Panel on continuous H-Carrier/Rail profile; installation of the blocking device on the upper part, continuous H-Carrier/Rail profile.

*Specific screws according to the structural calculation of each project or indicated by the supplier of the substructure.

DKT3 System

- Hidden system. Supporting substructure made up of; metal brackets, adjustable to correct unevenness and compatible with different types of supports, can include thermal break insulators; vertical metal profiles of different sections according to the application required; horizontal metal profiles, intermediate, half intermediate, top/bottom or half top/bottom type clips; hidden anchoring system by fastening by insertion into in the Dekton Panel edge's continuous grooving or kerf.
- Installation process: Brackets installed on the surface to be covered by means of a mechanical or welding system; vertical profiles installed on brackets with a regulation and fastening system, by means of specific screws*; specific intermediate, half intermediate, top/bottom or half top/bottom type clamps or profile parts with a regulation and fastening system, installed by means of specific screws* on vertical profiles; Installation of the lower edge of the Dekton panel on punctual top/bottom or half top/bottom type clamps or profile parts; installation of the locking device on the upper part. Installation of the Dekton panel's bottom into intermediate or top/bottom, half intermediate or half top/bottom clamps or profile parts; installation of the locking clamps on the panel's top, with intermediate or top/bottom clamps, half intermediate or half top/bottom clamps

*Specific screws according to the structural calculation of each project or indicated by the supplier of the substructure.

DKT4 System

- Visible system. Supporting substructure made up of; metal brackets, adjustable to correct unevenness and compatible with different types of supports, can include thermal break insulators; vertical metal profiles of different sections according to the required application; horizontal metal profiles, intermediate, half intermediate, top/bottom or half top/bottom type clamps; visible anchoring system by means of continuous grooving in the Dekton Panel for fastening by insertion.
- Installation process: Brackets installed on the surface to be covered by means of a mechanical system or welding; vertical profiles installed on brackets with a system of regulation and fastening, by means of specific screws*; visible clamp accessory with a system of regulation and fastening, installed by means of specific screws* on the vertical profiles; Installation of the Dekton panel's bottom on a visible accessory such as intermediate or top/bottom clamps, half intermediate or half top/bottom clamps; installation of the locking clamps on the panel's top, visible accessories such as the intermediate or top/bottom clamps, half intermediate or half top/bottom clamps.

*Specific screws according to the structural calculation of each project or indicated by the supplier of the substructure.

DKBG system

- Hidden system. Supporting substructure made up of; metal brackets, adjustable to correct unevenness and compatible with different types of supports, can include thermal break insulators; vertical metal profiles of different sections according to the application required; continuous horizontal U-Carrier/Rail type metal profiles; hidden anchoring system by means of a specific compression clip inserted into a groove in the back of the Dekton panel; continuous profile to block the grip clip on the Dekton panel.
- Installation process: Brackets installed on the surface to be covered by means of a mechanical or welding system; vertical

→ profiles installed on brackets with a regulation and fastening system, by means of specific screws*; continuous horizontal U-Carrier/Rail profiles with a regulation and fastening system, installed by means of specific screws* on vertical profiles; clamp-type accessory after joining with a blocker on the back of the Dekton surface, installed on U-Carrier/Rail with a regulation and fastening system.

*Specific screws according to the structural calculation of each project or indicated by the supplier of the substructure.

DKC system

→ Hidden system. Supporting substructure made up of; metal brackets, adjustable for the correction of unevenness compatible with different types of supports, can include thermal break insulator; vertical metal profiles of different sections; concealed system of chemical fixing by means of adhesive to the back of the Dekton Panel, according to the manufacturer's recommendations for its application.

→ Installation process: Brackets installed on the surface to be covered by means of a mechanical system or welding; vertical profiles installed on brackets with a regulation and fastening system, by means of specific screws*; possible installation of accessories according to the chemical system manufacturer requirements and subsequent installation of the adhesive to the vertical profile as indicated; panel installation to the chemical system by adhesion from the Dekton panel's back

*Specific screws according to the structural calculation of each project or indicated by the supplier of the substructure.

DKR System

→ Hidden system. Supporting substructure composed of; metal brackets, adjustable for correction of unevenness compatible with different types of supports, can include thermal break insulator; vertical metal profiles of different sections according to the required application. Visible fixing system by means of aluminum/stainless steel rivets powder-coated in a similar color to Dekton panels.

→ Installation process: Brackets installed on the surface to be covered by means of a mechanical system or welding; vertical profiles installed on brackets with a regulation and fastening system, by means of specific screws*. Visible rivet fixing in a similar color to Dekton panels installed with the required accessories and tools following the system's Technical Manual recommendations.

*Specific screws according to the structural calculation of each project or indicated by the supplier of the substructure.

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.