

# COTTOD'ESTE

EXCLUSIVE SURFACES

## Tender specifications | STARLIGHT collection - KERLITE

Supply of ceramic slabs made of Cotto d'Este Kerlite laminated porcelain tile for floors and walls.

### Product characteristics

Cotto d'Este - Kerlite laminated porcelain slabs, totally carbon neutral (CO<sub>2</sub> generated from the life cycle 100% neutralized) produced in a maximum size of 2780x1200 mm and 3 mm thick, reinforced with fibreglass mesh, obtained from raw materials of the highest quality and purity (light clay, feldspar and ceramic pigments with high chromatic performance), and manufactured by dry pressing on a belt of atomized powder, subsequently sintered by means of industrial firing at temperatures exceeding 1200 °C. The innovative Kerlite manufacturing process produces a final product which is light, flat and flexible, but at the same time compact, non-absorbent, frost-resistant, resistant to stains, chemical attack and thermal shock. The application of the fibreglass mesh gives the product high resistance and extreme versatility and ease of use for a wide range of applications in the architectural world.

### Compliance with EN 14411-G / ISO 13006-G

The STARLIGHT Kerlite 3plus collection is in compliance with the regulations required for first quality products in Italy and Europe UNI EN 14411-G and internationally through ISO 13006-G.

### Quality and environmental certifications

The conservation of the product characteristics is guaranteed by the Quality Management System put into practice by Cotto d'Este in its plants and certified in accordance with UNI EN ISO 9001.

The collection is manufactured in plants with UNI EN ISO 14001 certified Environmental Management Systems (internationally recognised standard) and EMAS (Regulation 1221/09 - eco-management and audit community system).

The collection helps to meet the criteria for obtaining LEED credits.

The product contains no VOC (volatile organic compounds) and got the GREENGUARD GOLD certification.

The Environmental Product Declaration (EPD) is available, this tool communicates clearly the environmental performances of the STARLIGHT Kerlite 3plus collection based on its Life Cycle Assessment (LCA).

For all the items in the collection, the calculation of the carbon footprint (PCF) over the entire life cycle is available, expressed as CO<sub>2</sub> equivalent per unit of product, certified according to ISO 14067.

The collection complies with the technical specifications and contractual conditions applicable to porcelain stoneware outlined in the Ministerial Decree of 23 June 2022 "Minimum environmental criteria for the contracting of the design and execution of works for building projects".

Think Zero: Kerlite ultra-thin slabs are totally carbon neutral and produced with innovative technology to minimise environmental impact: the CO<sub>2</sub> generated by the life cycle of this product has been 100% neutralised with the purchase of carbon credits belonging to the CDM (Clean Development Mechanism) standard.

### Antibacterial properties

Thanks to Protect antibacterial technology, the tiles from the STARLIGHT Kerlite 3plus collection have continuous, effective and durable protection against the proliferation of bacteria, tested and certified in accordance with ISO 22196 and ASTM E3031.

Commercial description of the product	
Company	COTTO D'ESTE (Panariagroup Industrie Ceramiche S.p.A.)
Collection	STARLIGHT Kerlite 3plus
Colours	CARRARA WHITE, STATUARIO EXTRA, CALACATTA SUPREME, VERSILIA GOLD, ONYX PEARL, TRAVERTINO CLASS, DORADO GLAMOUR, PATAGONIA EMERALD
Sizes	100x278 cm Rett SMOOTH, GLOSSY
Surfaces	SMOOTH - Recommended, as well as for wall cladding, also for flooring in residential or light commercial areas that are not subjected to heavy traffic, where anti-slip characteristics are not required. GLOSSY - Recommended, as well as for wall cladding, also for flooring in residential or light commercial areas that are not subjected to heavy traffic, where anti-slip characteristics are not required. The occasional presence of small inconsistencies or little spots on the surface is to be considered a characteristic of the material and of its unique production process. If the product is laid in direct contact with external environments, it is recommended to use protective solutions to reduce the formation of scratches.
Edges	RECTIFIED (RETT)
Thickness	3,5 mm



ISO 9001

ISO 14001

EMAS

GREENGUARD GOLD

LEED

LEED

EPD

CFP

CRITERI AMBIENTALI MINIMI

ULTRATHIN - CO<sub>2</sub> NEUTRAL ULTRASUSTAINABLE

ANTIBACTERIAL

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### Technical features

Product type: laminated porcelain stoneware (UGL)

According to: ISO 13006-G (Group Bla), EN 14411-G (Group Bla)

Technical features		Test method	Required values EN 14411-G / ISO 13006-G Bla-UGL Group	Average values STARLIGHT Kerlite 3plus
Water absorption		ISO 10545-3	≤ 0,5%	0,1% (*)
Modulus of rupture		ISO 10545-4	≥ 35 N/mm <sup>2</sup>	45 N/mm <sup>2</sup>
Deep abrasion resistance		ISO 10545-6	≤ 175 mm <sup>3</sup>	COMPLIANT
Linear thermal expansion		ISO 10545-8	No provision	$\alpha \leq 7 \cdot 10^{-6} \text{ }^\circ\text{C}^{-1}$
Stain resistance		ISO 10545-14	Class 3 Min.	5 RESISTANT (SMOOTH) ≥ 3 (GLOSSY)
Chemical resistance (**)		ISO 10545-13	As indicated by manufacturer	LA, HA RESISTANT (SMOOTH) LB, HB (GLOSSY)
Frost resistance		ISO 10545-12	No alteration	RESISTANT
Dimensions	Lenght and width	ISO 10545-2	RETT ± 0,3%, max ± 1 mm	COMPLIANT
	Straightness of sides	ISO 10545-2	RETT ± 0,3%, max ± 0,8 mm	COMPLIANT
	Rectangularity	ISO 10545-2	RETT ± 0,3%, max ± 1,5 mm	COMPLIANT
	Warpage	ISO 10545-2	RETT ± 0,4%, max ± 1,8 mm	COMPLIANT
	Thickness	ISO 10545-2	± 5% ± 0,5 mm	COMPLIANT
Slip resistance		ANSI A326.3	-	ID - DCOF ≥ 0.42 (Dry): SMOOTH, GLOSSY
Shade variation		ANSI A137.3	As indicated by manufacturer	V2
Fire reaction		EN 13823	CPR (UE) 305/2011, 2000/147/CE, UNI EN 13501-1	Class A2-s1,d0 (wall)
		EN 9239-1		Class A2fi-s1 (floor)
Thermal conductivity		EN 12524	-	$\lambda = 1,3 \text{ W/m }^\circ\text{K}$
Recommended minimum joint (***)		Indoor	-	1 mm (wall) 2 mm (floor)
		Outdoor	-	5 mm (wall)

(\*) Average value referred to ceramic material only.

(\*\*) Excluding hydrofluoric acid and its derivatives.

(\*\*\*) The width of grout joints must be established by the installation supervisor, unless grout widths are regulated by national laying standards.