

LEA

SLIMTECH

CERAMICHE

Tender specifications

SLIMTECH CONCRETO 6mm collection

Supply of ceramic tiles made of LEA Ceramiche Slimtech laminated porcelain tile for floors and walls.

Product characteristics

LEA Ceramiche Slimtech laminated porcelain tiles, totally carbon neutral (CO₂ generated from the life cycle 100% neutralized), produced in a maximum size of 2600x1200mm and 6mm thick, 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 Slimtech 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, 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 Slimtech Concreto 6mm 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 LEA Ceramiche 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 Slimtech Concreto 6mm collection based on its Life Cycle Assessment (LCA).

Think Zero: Slimtech ultra-thin slabs are totally carbon neutral and produced with innovative technology to minimise environmental impact: the CO₂ 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 Slimtech Concreto 6mm 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	LEA Ceramiche (Panariagroup Industrie Ceramiche S.p.A.)
Collection	SLIMTECH CONCRETO 6mm
Colours	EXTRA LIGHT, LIGHT, MEDIUM, DARK, RUST, FOAM MEDIUM, TIDE MEDIUM
Sizes	60X120cm
	120X120cm (*)
	120X260cm
Surfaces	NATURAL
Edges	RECTIFIED
Thickness	6mm

(*) 120x120 Nat finish available in Slimtech 6plus (6.5mm) reinforced whit fiberglass



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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 ISO 13006-G, EN 14411-G	Average values SLIMTECH CONCRETO 6mm
Water absorption		ISO 10545-3	≤ 0,5 %	0,1 %
Modulus of rupture		ISO 10545-4	≥ 35 N/mm ²	50 N/mm ²
Deep abrasion resistance		ISO 10545-6	≤ 175 mm ³	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
Chemical resistance (*)		ISO 10545-13	As indicated by manufacturer	LA, HA RESISTANT
Frost resistance		ISO 10545-12	No alteration	RESISTANT
Dimensions	Lenght and width	ISO 10545-2	± 0,3 %, max ± 1 mm	COMPLIANT
	Straightness of sides	ISO 10545-2	± 0,3 %, max ± 0,8 mm	COMPLIANT
	Rectangularity	ISO 10545-2	± 0,3 %, max ± 1,5 mm	COMPLIANT
	Warpage	ISO 10545-2	± 0,4 %, max ± 1,8 mm	COMPLIANT
	Thickness	ISO 10545-2	± 5 %, max ± 0,5 mm	COMPLIANT
Slip resistance		DIN EN 16165 – Annex B	-	R10
		BCR-TORTUS	-	$\mu > 0,40$
		ANSI A 326.3	-	ID - DCOF≥0.42 (Dry) IW - DCOF≥0.42 (Wet) IW+ ***
Shade variation		ANSI A 137.1	As indicated by manufacturer	V3
Fire reaction		EN 13823	CPR (UE) 305/2011, 2000/147/CE, UNI EN 13501-1	Class A1 (wall)
		EN 9239-1		Class A1 _f (floor)
Thermal conductivity		EN 12524	-	$\lambda = 1,3 \text{ W/m }^\circ\text{K}$
Recommended minimum joint (**)		Indoor	-	1mm (wall) 2mm (floor)

(*) 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.

(***)With the exception of areas characterized by a higher risk of slipping (such as public showers, indoor swimming pools, etc.) for which an Anti-slip surface is recommended

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ISO 9001 ISO 14001 EMAS ULTRATHIN - CO₂ NEUTRAL ULTRASUSTAINABLE GREENGUARD GOLD EPD LEED LEED ANTIBACTERIAL CE MARK MADE IN ITALY