

# LEA

CERAMICHE

## Tender specifications DREAMING collection

Supply of LEA Ceramiche porcelain stoneware tiles for walls and floors.

### Product characteristics

LEA Ceramiche full body porcelain stoneware tiles, glazed, composed of a very fine mixture of quality clay with the addition of feldspar, quartz and kaolin, manufactured by dry pressing of atomized powders and subsequently sintered by industrial firing at temperatures above 1200°C.

The complete vitrification of the tiles allows for a compact, non-absorbent, frost-proof product, resistant to bending, impacts, staining, chemical attack and thermal shock.

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

The Dreaming 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 recognized standard) and EMAS (Regulation 1221/09 - eco-management and audit community system).

The collection helps to meet the criteria for obtaining LEED credits. The content of "pre-consumer" recycled material is 40%, as certified by a qualified external body (LEED V4 Regulations - MR Credit). The product contains no VOC (volatile organic compounds). The Environmental Product Declaration (EPD) is available, this tool communicates clearly the environmental performances of the Dreaming collection based on its Life Cycle Assessment (LCA).

Commercial description of the product		
Company	LEA CERAMICHE (Panariagroup Industrie Ceramiche S.p.A.)	
Collection	DREAMING	
Colours	CALACATTA SHINE, GRAY STONE, BIANCO STATUARIO, CRYSTAL WHITE, ROMANCE SAFARI, IMPERIAL ONYX, LASA AURORA	
Sizes	30X60cm LUX RECT	30X60cm VELVET RECT
	60X60cm LUX RECT	60X60cm VELVET RECT
	73X73cm LUX RECT	75X75cm VELVET RECT
	60X120cm LUX RTT (*)	60X120cm VELVET RTT (*)
Surfaces	VELVET - Recommended for flooring in residential and low traffic commercial spaces. LUX - 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 (RECT)	
Thickness	10mm - 11mm	

(\*) available colours: Bianco Statuario, Calacatta Shine, Gray Stone, Lasa Aurora, Imperial Onyx



EMAS



ISO 14001



LEED



LEED



LEED



ISO 9001



EN 14411  
Le DOP sono disponibili sul sito internet [www.ceramichelea.it](http://www.ceramichelea.it)  
DOP are available on the website [www.ceramichelea.it](http://www.ceramichelea.it)

CE MARK



MADE IN ITALY

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### Technical features

Product type: full body porcelain stoneware (GL)

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 DREAMING
Water absorption		ISO 10545-3	≤ 0,5 %	0,05 %
Breaking strength (S)		ISO 10545-4	≥ 1300 N	Thick. 10mm: 2500 N Thick. 11mm: 3000 N
Modulus of rupture		ISO 10545-4	≥ 35 N/mm <sup>2</sup>	50 N/mm <sup>2</sup>
Resistance to superficial abrasion		ISO 10545-7	As indicated by manufacturer	PEI 4 (LUX) PEI 5 (VELVET)
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 (VELVET) ≥3 (LUX)
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	CONFORME
	Straightness of sides	ISO 10545-2	± 0,3 %, max ± 0,8 mm	CONFORME
	Rectangularity	ISO 10545-2	± 0,3 %, max ± 1,5 mm	CONFORME
	Warpage	ISO 10545-2	± 0,4 %, max ± 1,8 mm	CONFORME
	Thickness	ISO 10545-2	± 5 %, max ± 0,5 mm	CONFORME
Slip resistance		ANSI A 137.1	-	DCOF ≥ 0.42 (VELVET)
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 <sub>fl</sub> (floor)
Thermal conductivity		EN 12524	-	$\lambda = 1,3 \text{ W/m } ^\circ\text{K}$
Recommended minimum joint (**)		Indoor	-	2mm

(\*) 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.



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