

Tender specifications / TRILOGY collection

Supply of Panaria Ceramica porcelain stoneware tiles for walls and floors.

Product characteristics

Panaria Ceramica full body porcelain stoneware tiles, unglazed, 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 Trilogy 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 Panaria Ceramica 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) and got the GREENGUARD GOLD certification. The Environmental Product Declaration (EPD) is available, this tool communicates clearly the environmental performances of the Trilogy collection based on its Life Cycle Assessment (LCA).

Antibacterial properties

Thanks to Protect antibacterial technology, the tiles from the Trilogy 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	PANARIA CERAMICA (Panariagroup Industrie Ceramiche S.p.A.)				
Collection	TRILOGY				
Colours	CALACATTA WHITE, ONYX LIGHT, MOON	CALACATTA WHITE, ONYX LIGHT, MOON BEIGE, SAND GREY			
Sizes	30X60cm SOFT	30X60cm LUX			
	60X60cm SOFT	60X60cm LUX			
	60X120cm SOFT	60X120cm LUX			
Surfaces	SOFT - 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	9,5mm				





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Technical features

Product type: full body 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 - Bla-UGL Group	Average values TRILOGY
Water absorption		ISO 10545-3	≤ 0,5 %	0,05 %
Breaking strength (S)		ISO 10545-4	≥ 1300 N	2200 N
Modulus of rupture		ISO 10545-4	≥ 35 N/mm ²	50 N/mm ²
Deep abrasion resistance		ISO 10545-6	≤ 175mm³	145mm ³ (SOFT) 150 mm ³ (LUX)
Linear thermal expansion		ISO 10545-8	No provision	$\alpha \le 7.10^{-6} \ ^{\circ}C^{-1}$
Stain resistance		ISO 10545-14	Class 3 Min.	5 RESISTANT ≥ 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	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		ANSI A326.3	-	ID - DCOF≥0.42 (Dry) (SOFT, LUX) IW - DCOF≥0.42 (Wet) (SOFT)
Shade variation		ANSI A137.1	As indicated by manufacturer	V2
Fire reaction		EN 13823	CPR (UE) 305/2011, 2000/147/CE, UNI EN 13501-1	Class A1 (wall)
		EN 9239-1		Class A1 _{fl} (floor)
Thermal conductivity		EN 12524	-	λ = 1,3 W/m °K
Recommended minimum joint (**) (*) Excluding hydrofluoric acid and its c		Indoor	-	2mm (RECT)

(*) 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.



ISO 14001

ISO 9001



EMAS

GREENGUARD EPD

PANARIAgroup

LEED

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Antibacterial for Life

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