



Tender specifications

PULSE collection

Supply of TNC Surfaces porcelain stoneware tiles for walls and floors.

Product characteristics

TNC Surfaces 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 480°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 1486-G

The PULSE collection is in compliance with the regulations required for first quality products in Italy and Europe UNI EN 14411-G and internationally through ISO 1486-G.

Quality and environmental certifications

The conservation of the product characteristics is guaranteed by the Quality Management System put into practice by TNC Surfaces 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 PULSE collection based on its Life Cycle Assessment (LCA).

Antibacterial properties

Thanks to Protect antibacterial technology, the tiles from the PULSE collection have continuous, effective and durable protection against the proliferation of bacteria, tested and certified in accordance with ISO 22196 and ASTM E1231. (Not for GRIP L2-20 mm* surface).

Commercial description of the product				
Company	Town and Country Surfaces			
Collection	PULSE Collection			
Colours	Mushroom, Tan, Tortilla, Dust, Seal			
Sizes	48x48 MATTE Rect	48x48 Semi-Gloss Rect	48x48 GRIP Rect	
	24x48 MATTE Rect	24x48 Semi-Gloss Rect	24x48 ETCHED Rect	24x48 Rect GRIP
	24x24 MATTE Rect	24x24 Semi-Gloss Rect	24x24 GRIP Rect	24x48 Rect GRIP 20mm (L2)
	12x24 MATTE Rect	12x24 Semi-Gloss Rect	12x24 GRIP Rect	
	36x72 MATTE Rect	36x72 Semi-Gloss Rect		
	36x36 MATTE Rect	36x36 Semi-Gloss Rect		
Surfaces	MATTE, Semi-Gloss, ETCHED, GRIP, GRIP 20mm			
Edges	RECTIFIED (RECT)			
Thickness	9mm – 20mm (L2)			

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Technical features

Product type: full body porcelain stoneware (UGL) According to:
ISO 1486-G (Group Bla), EN 14411-G (Group Bla)

Technical features		Test method	Required values ISO 1486-G, EN 14411-G	Average values PULSE
Water absorption		ISO 10545-3 ISO 10545-4	≤ 0.5%	0,05 %
Breaking strength (S)		ISO 10545-4	≥ 148 N	Thick. 9mm: 1800 N Thick. 20mm: 50 N/mm ²
Modulus of rupture		ISO 10545-6	≥ 35 N/mm ²	145mm ³
Deep abrasion resistance		ISO 10545-8	≤ 175mm ³	α ≤ 7·10 ⁻⁶ °C ⁻¹
Linear thermal expansion		ISO 10545-14	No provision	5 RESISTANT
Stain resistance		ISO 10545-13	Class 3 Min.	LA, HA RESISTANT
Chemical resistance (*)		ISO 10545-12	As indicated by manufacturer	RESISTANT
Frost resistance		ISO 10545-2	No alteration	COMPLIANT
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 DIN EN	± 0,4 %, max ± 1,8 mm	COMPLIANT
	Thickness		± 5 %, max ± 0,5 mm	R10 (MATTE) R11 (GRIP – GRIP L2-20mm)
Slip resistance		16165 – Annex B	-	A+B (MATTE)
		DIN EN 16165 – Annex A	-	A+B+C (GRIP – GRIP L2-20mm) μ > 0,40 (MATTE, GRIP, GRIP 20mm)
		BCR-TORTUS	-	ID - DCOF≥0.42 (Dry) (MATTE, Semi-Gloss)
		ANSI A326.3	-	IW - DCOF≥0.42 (Wet) (MATTE) EW (GRIP - GRIP L2-20mm)
		AS 4586:2013	-	IW+ *** (MATTE) P4 (GRIP – GRIP L2-20mm)
		BS 7976:2002	-	P3 (MATTE) PTV 36+Wet (Sl.96 - Sl.55) (GRIP)
Shade variation		ANSI A 137.1	As indicated by manufacturer	PTV 36+Wet (Sl.96) (MATTE)
Fire reaction		EN 13823	CPR (UE) 125/2011,2000/147/CE, UNI EN 13501-1	V2
		EN 9239-1		Class A1 (wall)
Thermal conductivity		EN 12524	-	Class A1fl (floor)
Recommended minimum joint (**)		Indoor	-	λ = 1,3 W/m °K
		Outdoor	-	2mm / 5-6mm

(*) 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 (Grip).

MORE INFO:



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