

Tender specifications / OPIFICIO 22/a 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 Opificio 22/a 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). The Environmental Product Declaration (EPD) is available, this tool communicates clearly the environmental performances of the Opificio 22/a collection based on its Life Cycle Assessment (LCA).

Antibacterial properties

Thanks to Protect antibacterial technology, the tiles from the Opificio 22/a 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 (Panariagrou	PANARIA CERAMICA (Panariagroup Industrie Ceramiche S.p.A.)			
Collection	OPIFICIO 22/a	OPIFICIO 22/a			
Colours	GESSO, CALCE, ARGILLA, TERRA, O	GESSO, CALCE, ARGILLA, TERRA, CENERE			
	30X60cm RECT	90X90cm RECT 20mm			
Cines	60X60cm RECT				
Sizes	90X90cm RECT				
	20x20cm				
Surfaces	NATURALE, EXT (*), STRUTTURAT	NATURALE, EXT (*), STRUTTURATO (*)			
Edges	RECTIFIED (RECT), NOT RECTIFIED	RECTIFIED (RECT), NOT RECTIFIED			
Thickness	8mm – 9,5mm - 20mm	8mm – 9,5mm - 20mm			

(*) The antimicrobial protection is not applied.



LEED GREENGUARD GOLD



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Technical features

Product type: full body porcelain stoneware (UGL) According to: ISO 13006-G (Group BIa), EN 14411-G (Group BIa)

Technical features		Test method	Required values ISO 13006-G, EN 14411-G Bla-UGL Group	Average values OPIFICIO 22/a	
Water absorption		ISO 10545-3	≤ 0,5 %	0,05 %	
Breaking strength (S)		ISO 10545-4	≥ 1300 N	Thick. 8mm: ≥ 1.300 N Thick. 9,5mm: 2.200 N Thick. 20mm: 13.600 N	
Modulus of rupture		ISO 10545-4	≥ 35 N/mm²	50 N/mm ²	
Deep abrasion resistance		ISO 10545-6	≤ 175mm ³	145mm ³	
Linear th	nermal expansion	ISO 10545-8	No provision	$\alpha \leq 7 \cdot 10^{-6} \ ^{\circ}C^{-1}$	
Stain resistance		ISO 10545-14	Class 3 Min.	5 RESISTANT	
Chemica	al 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	RECT ± 0,3 %, max ± 1 mm	COMPLIANT	
			± 0,6 %, max ± 2 mm		
		ISO 10545-2	RECT ± 0,3 %, max ± 0,8 mm	COMPLIANT	
	Straightness of sides		± 0,5 %, max ± 1,5 mm		
	Rectangularity	ISO 10545-2	RECT ± 0,3 %, max ± 1,5 mm		
			± 0,5 %, max ± 2 mm	COMPLIANT	
	Warpage	ISO 10545-2	RECT ± 0,4 %, max ± 1,8 mm		
			± 0,5 %, max ± 2 mm	COMPLIANT	
	Thickness	ISO 10545-2	± 5 % ± 0,5mm	COMPLIANT	
Slip resistance		DIN 51130	-	R10 (NATURALE) R11 (EXT, STRUTTURATO)	
		DIN 51097	-	A (NATURALE) A+B+C (EXT, STRUTTURATO)	
		BCR-TORTUS	-	μ > 0,40	
		ANSI A326.3	-	DCOF ≥ 0.42	
		AS 4586:2013	-	P4 (EXT, STRUTTURATO)	
		BS 7976:2002	-	PTV 36+Wet (SI.96-SI. 55) (EXT, STRUTTURATO)	
Shade variation		ANSI A137.1	As indicated by manufacturer	V4	
Fire reaction		EN 13823	CPR (UE) 305/2011, 2000/147/CE, UNI	Class A1 (wall)	
		EN 9239-1	EN 13501-1	Class A1 _{fl} (floor)	
Thermal conductivity		EN 12524	-	λ = 1,3 W/m °K	
Recommended minimum joint (**)		Indoor	-	2mm (RECT) 3-4mm APPROX (NOT RECT)	
		Outdoor	-	5-6mm APPROX	

(*) 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

40%

LEED

GREENGUARD GOLD ISO 9001

ANTIBATTERICO