

BLUSTYLE

COTTO D'ESTE

Tender specifications GEOS collection

Supply of Blustyle by Cotto d'Este porcelain stoneware tiles for walls and floors.

Product characteristics

Blustyle by Cotto d'Este full body porcelain stoneware tiles, unglazed (UGL), 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 GEOS 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 Blustyle by Cotto d'Este in its plants and certified in accordance with UNI EN ISO 9001:2008.

The collection is manufactured in plants with UNI EN ISO 14001:2004 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 has obtained the GREENGUARD GOLD certification. The Environmental Product Declaration (EPD) is available, this tool communicates clearly the environmental performances of the GEOS collection based on its Life Cycle Assessment (LCA).

Commercial description of the product

Company	BLUSTYLE by COTTO D'ESTE (Panariagroup Industrie Ceramiche S.p.A.)		
Collection	GEOS		
Colours	PACK, EARTH, COAST, REEF		
Sizes	30x60 cm HONED, NATURAL, GRIP		
	60x60 cm HONED, NATURAL, GRIP		
	60x120 cm HONED, NATURAL, GRIP	60x120 cm HONED, NATURAL, GRIP	
	120x120 cm HONED, NATURAL		
Surfaces	HONED, NATURAL, GRIP, SLATY		
Edges	RECTIFIED (RTT)		
Thickness	9mm – 20mm		



ISO 9001

ISO 14001

EMAS

RECYCLED MATERIALS

GREENGUARD GOLD

EPD

LEED

LEED

CE MARK

MADE IN ITALY

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Technical features

Product type: 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 GEOS
Water absorption		ISO 10545-3	≤ 0,5 %	0,05 %
Breaking strength (S)		ISO 10545-4	≥ 1300 N	Thick. 9mm: 1800 N Thick. 20mm: 13600 N
Modulus of rupture		ISO 10545-4	≥ 35 N/mm ²	50 N/mm ²
Deep abrasion resistance		ISO 10545-6	≤ 175mm ³	145mm ³
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 RESISTENTE ≥ 3 (Chalk LAPPATA)
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 ± 0,5mm	COMPLIANT
Slip resistance	DIN EN 16165 – Annex B	-	-	R10 (NATURAL) R11 (GRIP/ SLATY)
	DIN EN 16165 - Annex A	-	-	A+B (NATURAL) A+B+C (GRIP, SLATY)
	BCR-TORTUS	-	-	$\mu > 0,40$ (NATURAL, GRIP, SLATY)
	ANSI A326.3	-	-	ID - DCOF ≥ 0,42 (dry) (HONED/NATURAL) IW - DCOF ≥ 0,42 (wet) (NATURAL) IW+ (NATURAL) EW (GRIP/SLATY)
	BS 7976-2	-	-	PTV 36+ wet Sl. 96 (NATURAL) PTV 36+ wet Sl. 55 – sl 96 (GRIP, SLATY)
	AS-NZS 4586	-	-	P3 (NATURAL) P4 (GRIP, SLATY)
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 _{fl} (floor)
Thermal conductivity		EN 12524	-	$\lambda = 1,3 \text{ W/m } ^\circ\text{K}$
Recommended minimum joint (**)		Indoor	-	2mm (RTT)
		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.



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