

COTTOD'ESTE

EXCLUSIVE SURFACES

Tender specifications | BLUTECH collection - BLUSTYLE

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

Product characteristics

Cotto d'Este - Blustyle coloured-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 BLUTECH 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 Cotto d'Este 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 CE 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 BLUTECH collection based on its Life Cycle Assessment (LCA).

For all the items in the collection, the calculation of the carbon footprint (PCF) over the entire life cycle is available, expressed as CO₂ equivalent per unit of product, certified according to ISO 14067.

The collection complies with the technical specifications and contractual conditions applicable to porcelain stoneware outlined in the Ministerial Decree of 23 June 2022 "Minimum environmental criteria for the contracting of the design and execution of works for building projects".

Commercial description of the product	
Company	COTTO D'ESTE (Panariagroup Industrie Ceramiche S.p.A.)
Collection	BLUTECH
Colours	BIANCO, AVORIO, BEIGE, CEMENTO, CENERE
Sizes	30x60 cm Rett (NATURALE, LAPPATA, JUTA)
	60x60 cm Rett (NATURALE, LAPPATA)
	90x90 cm Rett (NATURALE, LAPPATA)
Surfaces	NATURALE, LAPPATA, JUTA
Edges	RECTIFIED (RETT)
Thickness	10 mm: 60x60 cm (NATURALE, LAPPATA) e 30x60 cm (NATURALE, LAPPATA, JUTA)
	11 mm: 90x90 cm (NATURALE, LAPPATA)
	14 mm: 60x60 cm (NATURALE - Colori AVORIO, CENERE)



ISO 9001 - ISO 14001



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Technical features

Product type: coloured-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 BLUTECH
Water absorption		ISO 10545-3	≤ 0,5%	0,05%
Breaking strength (S)		ISO 10545-4	≥ 1300 N	Thickness 10 mm: 3200 N Thickness 11 mm: 3900 N Thickness 14 mm: 6400 N
Modulus of rupture		ISO 10545-4	≥ 35 N/mm ²	50 N/mm ²
Deep abrasion resistance		ISO 10545-6	≤ 175 mm ³	123 mm 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 RESISTANT (NATURALE, JUTA, LAPPATA)
Chemical resistance (*)		ISO 10545-13	As indicated by manufacturer	LA, HA RESISTANT (NATURALE, JUTA) LB, HB (LAPPATA)
Frost resistance		ISO 10545-12	No alteration	RESISTANT
Dimensions	Lenght and width	ISO 10545-2	RETT ± 0,3%, max ± 1 mm	COMPLIANT
	Straightness of sides	ISO 10545-2	RETT ± 0,3%, max ± 0,8 mm	COMPLIANT
	Rectangularity	ISO 10545-2	RETT ± 0,3%, max ± 1,5 mm	COMPLIANT
	Warpage	ISO 10545-2	RETT ± 0,4%, max ± 1,8 mm	COMPLIANT
	Thickness	ISO 10545-2	RETT ± 5%, max ± 0,5 mm	COMPLIANT
Slip resistance	DIN EN 16165 - Annex B	-	-	R9 (LAPPATA) R10 (NATURALE) R12 (JUTA)
	DIN EN 16165 - Annex A	-	-	B (NATURALE) C (JUTA)
	BCR-TORTUS	-	-	$\mu > 0,40$ (NATURALE, JUTA)
	ANSI A326.3	-	-	ID - DCOF ≥ 0.42 (Dry): NATURALE, LAPPATA IW - DCOF ≥ 0.42 (Wet): NATURALE, LAPPATA IW+: NATURALE (***) EW: JUTA
	AS/NZS 4586	-	-	P3 (NATURALE) P4 (JUTA)
	UNE EN 16165 - Annex C	-	-	Clase 1 (LAPPATA) Clase 2 (NATURALE) Clase 3 (JUTA)
	BS EN 16165 - Annex C	-	-	PTV 36+Wet (Sl.96): NATURALE PTV 36+Wet (Sl.96 - Sl.55): JUTA
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 _f (floor)
Thermal conductivity		EN 12524	-	$\lambda = 1,3 \text{ W/m } ^\circ\text{K}$
Recommended minimum joint (**)		Indoor	-	2 mm (Rett)
		Outdoor	-	5-6 mm 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.

(***) 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 (Juta).



ISO 9001 - ISO 14001



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