

# BLUSTYLE

## COTTO D'ESTE

### Tender specifications CHÂTEAU ROYAL 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, 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 Château Royal 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.

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 has obtained the GREENGUARD GOLD certification. The Environmental Product Declaration (EPD) is available, this tool communicates clearly the environmental performances of the Château Royal 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	CHÂTEAU ROYAL
Colours	AMBOISE
Sizes	20X40cm
	40X40cm
	40X60cm
	60X60cm
Surfaces	NATURALE (NAT), HONED
Edges	RECTIFIED (RECT), STANDARD (NOT RECT)
Thickness	10mm

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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	Average values CHÂTEAU ROYAL
Water absorption		ISO 10545-3	≤ 0,5 %	0,05 %
Breaking strength (S)		ISO 10545-4	≥ 1300 N	2.500 N
Modulus of rupture		ISO 10545-4	≥ 35 N/mm <sup>2</sup>	50 N/mm <sup>2</sup>
Deep abrasion resistance		ISO 10545-6	≤ 175mm <sup>3</sup>	145mm <sup>3</sup>
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
Chemical resistance (*)		ISO 10545-13	As indicated by manufacturer	LA, HA RESISTANT
Frost resistance		ISO 10545-12	No alteration	RESISTANT
Dimensions	Length and width	ISO 10545-2	Bordi Rett. ± 0,3 %, max ± 1 mm Bordi Non Rett. ± 0,6 %, max ± 2 mm	COMPLIANT
	Straightness of sides	ISO 10545-2	Bordi Rett. ± 0,3 %, max ± 0,8 mm Bordi Non Rett. ± 0,5 %, max ± 1,5 mm	COMPLIANT
	Rectangularity	ISO 10545-2	Bordi Rett. ± 0,3 %, max ± 1,5 mm Bordi Non Rett. ± 0,5 %, max ± 2 mm	COMPLIANT
	Warpage	ISO 10545-2	Bordi Rett. ± 0,4 %, max ± 1,8 mm Bordi Non Rett. ± 0,5 %, max ± 2 mm	COMPLIANT
	Thickness	ISO 10545-2	± 5 %, max ± 0,5mm	COMPLIANT
Slip resistance	DIN 51130	-	-	R9 (HONED) R11 (NAT)
	DIN 51097	-	-	A+B (NAT)
	BCR-TORTUS	-	-	$\mu > 0,40$
	ANSI A326.3	-	-	DCOF≥0.42
	AS-NZS 4586	-	-	P3 (NAT)
	BS 7976-2	-	-	PTV 36+ Wet. SI.96 (NAT)
	UNE 41901 EX	-	-	Clase 1 (LAPP.) Clase 2 (NAT)
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 <sub>f</sub> (floor)	
Thermal conductivity	EN 12524	-	$\lambda = 1,3 \text{ W/m } ^\circ\text{K}$	
Recommended minimum joint (**)	Indoor	-	2mm (RECT) 4mm (STD)	

(\*) 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.