

# BLUSTYLE

COTTODESTE

## Tender specifications ADVANTAGE collection

Supply of Blustyle porcelain stoneware tiles for walls and floors.

### Product characteristics

Blustyle 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 Advantage 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 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 Advantage collection based on its Life Cycle Assessment (LCA).

### Commercial description of the product

Company	BLUSTYLE (Panariagroup Industrie Ceramiche S.p.A.)			
Collection	ADVANTAGE			
Colours	Chalk, Greige, Silver, Graphite			
Sizes	90X180cm NAT	90X180cm LAP		
	90x90 cm NAT	90x90 cm LAP		
	120x120 cm NAT	120x120 cm LAP		
	60x120 cm NAT	60x120 cm LAP	60x120 cm GRIP	60x120 cm SLATY
	60x60 cm NAT	60x60 cm LAP	60x60 cm GRIP	
	30x60 cm NAT	30x60 cm LAP	30x60 cm GRIP	
Surfaces	NATURALE (NAT), LAPPATA (LAP), 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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COTTOD'ESTE

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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 ADVANTAGE
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 <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 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 (NAT) R11 (GRIP) R12 (SLATY)
	DIN EN 16165 - Annex A	-	-	A+B (NAT) A+B+C (GRIP, SLATY)
	BCR-TORTUS	-	-	$\mu > 0,40$ (NAT, GRIP, SLATY)
	ANSI A326.3	-	-	ID - DCOF ≥ 0,42 (dry) - LAPP/NAT IW - DCOF ≥ 0,42 (wet) - NAT IW+ - NAT (***) EW - GRIP/SLATY
	BS 7976-2	-	-	PTV 36+ wet Sl. 96 (NAT) PTV 36+ wet Sl. 55 – sl 96 (GRIP, SLATY)
	AS-NZS 4586	-	-	P3 (NAT) P4 (GRIP, SLATY)
	UNE 41901 EX	-	-	Clase 1 (LAP) Clase 2 (NAT) Clase 3 (GRIP, SLATY)
Shade variation	ANSI A 137.1	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 <sub>f</sub> (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.

(\*\*\*) With the exception of areas characterized by a higher risk of slipping (such as public showers, indoor swimming pools, etc.) for which a GRIP surface is recommended



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