

Tender specifications PIETRA ITALIA 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 PIETRA ITALIA 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 PIETRA ITALIA 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 | PIETRA ITALIA |
| Colours | BEIGE, BLACK, GREY, WHITE |
| Sizes | 30X60cm RTT (NATURALE, GRIP) |
| | 60X60cm RTT (NATURALE) |
| | 60X120cm RTT (NATURALE) |
| Surfaces | NATURALE, GRIP |
| Edges | RECTIFIED (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 PIETRA ITALIA |
|--------------------------------|-----------------------|---|---|--|
| Water absorption | | ISO 10545-3 | ≤ 0,5 % | 0,05 % |
| Breaking strength (S) | | ISO 10545-4 | ≥ 1300 N | Thick. 10mm: 2500 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 RESISTANT |
| 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 | Rect. ± 0,3 %, max ± 1 mm | COMPLIANT |
| | Straightness of sides | ISO 10545-2 | Rect. ± 0,3 %, max ± 0,8 mm | COMPLIANT |
| | Rectangularity | ISO 10545-2 | Rect. ± 0,3 %, max ± 1,5 mm | COMPLIANT |
| | Warpage | ISO 10545-2 | Rect. ± 0,4 %, max ± 1,8 mm | COMPLIANT |
| | Thickness | ISO 10545-2 | ± 5 %, max ± 0,5mm | COMPLIANT |
| Slip resistance | DIN 51130 | - | - | R10 (NATURALE) R11 (GRIP) |
| | DIN 51097 | - | - | A+B (NATURALE) A+B+C (GRIP) |
| | BCR-TORTUS | - | - | $\mu > 0,40$ |
| | ANSI A326.3 | - | - | DCOF _W ≥ 0.42 |
| | AS-NZS 4586 | - | - | P3 (NATURALE) P4 (GRIP) |
| | BS 7976-2 | - | - | PTV 36+ wet (SI 96) (NATURALE, GRIP) PTV 36+ wet (SI 55) (GRIP) |
| | UNE 41901 EX | - | - | Clase 1 (NATURALE) Clase 3 (GRIP) |
| 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 _{fl} (floor) | |
| Thermal conductivity | EN 12524 | - | $\lambda = 1,3 \text{ W/m } ^\circ\text{K}$ | |
| Recommended minimum joint (**) | Indoor | - | 2mm | |

(*) 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.