LISTONE D

SPECIFICATION PORCELAIN STONEWARE

MATERIAL

Porcelain stoneware.

Classified in GROUP Bla UGL CON $E_b \le 0.5\%$.

Complies with all the requirements of UNI EN 14411 ISO 13006 APP. G standards.

Six sophisticated colours, carefully selected to deliver all the beauty of the natural material, at the original and versatile colors: Canyon, Steppa, Vulcano, Tundra, Bruma, Deserto.

The surface finishes in the range have been designed down to the tiniest detail for an absolutely natural, genuine feel: Matte, Shabby R11 A+B (ideal for public places and outdoor) and Antislip (R11 A+B+C) 2 cm thickness in 40x80 size.

| COLOR | | SIZES | SURFACE | THICKNESS |
|-----------|----|---|----------------|-----------|
| TUNDRA | V2 | | | |
| DESERTO | V2 | MATTE RECTIFIED 20x120 (8"x48") . 15x90 (6"x36") | | |
| CANYON | V2 | SHABBY RECTIFIED | MATTE | 9,5 MM |
| BRUMA | V2 | 15x90 (6"x36") | SHABBY | 20 MM |
| STEPPA | V2 | ANTISLIP RECTIFIED (20 MM) 40x80 (16"x32") (only DESERTO, CANYON e BRUMA) | ANTISLIP 20 MM | |
| VULCANO | V2 | | | |

PROCESS

Product obtained from exceptionally pure, choice quality raw materials, including light-coloured clays, feldspar fluxes, kaolins, sands and coloured ceramic pigments. Pressing in hydraulic presses allows a pressure of over 500kg/cm2 to be applied to the product, guaranteeing dimensional precision, planarity and high mechanical strength.

The product's colours and patterns are achieved with the innovative Digital Technology.

The materials are fired in single-layer roller kilns at temperatures of over 1,220°C.

GREEN BUILDING: CERTIFIED ENVIRONMENTAL SUSTAINABILITY

The tiles in the Listone D collection are ideal for eco-sustainable building:

- They are produced in plants which have an EMAS-ISO 14001 certified environmental management system.
- They help to obtain credits for the construction of buildings in accordance with the LEED certification programme.

| Size | |
|----------|------|
| Finishes | |
| Color | Type |









LISTONE D

















TECHNICAL TABLE PORCELAIN STONEWARE

CONFORMING TO STANDARDS

EN 14411 ISO 13006 ANNEX G GROUP Bla UGL CON Eb \leq 0,5%

| | PHYSICAL PROPERTIES | TESTING METHOD | REFERENCE STANDARD | | | PRODUCT VALUES |
|---|---|---------------------|---|-----------------|---------------|--|
| | | | | 7cm ≤ N < 15 cm | N ≥ 15 cm | |
| | | | | (mm) | (%) (mm) | |
| | | | Length and width | ±0.9 | ±0.6 ±2.0 | |
| | C. | EN ICO 10545 2 | Thickness | ±0.5 | ±5.0 ±0.5 | Rectified |
| | Sizes | EN ISO 10545-2 | Lineartity | ±0.75 | ±0.5 ±1.5 | |
| | | | Wedging | ±0.75 | ±0.5 ±2.0 | Conforming |
| | | | Warpage | ±0.75 | ±0.5 ±2.0 | |
| | | | Appearance: percentage of acceptable tiles, per lot | 95 % min. | 95 % - min | |
| | Water absorption % | EN ISO 10545-3 | Eb ≤ 0,5% | | | Conforming |
| | Modulus of rupture | ENUCO 10545 4 | Valore medio 35 N/mm² min. | | | Conforming |
| | Breakage resistence | - EN ISO 10545-4 | sp. > = 7,5 mm: min 1300 N sp. < 7,5 mm: min 700 N | | | Conforming |
| | Scratch resistance | EN ISO 10545-6 | 175 mm3 max. | | | Average < 150 mm3 |
| • | Thermal expansion coefficient | EN ISO 10545-8 | Declared value | | | 6,8 MK ⁻¹ |
|) | Thermal shock resistance | EN ISO 10545-9 | Pass according to iso 10545-1 | | | * Resistant |
| * | Frost resistance | EN ISO 10545-12 | Pass according to iso 10545-1 | | | * Resistant |
| | Resistance to low concentrations of acids and alkali | | Declared value | | | * Resistant |
| | Resistance to high concentrations of acids and alkali | EN ISO 10545-13 | Declared value | | | * Resistant |
| | Resistance to domestic chemicals and additives for swimming pools | | UB min. | | | UA |
| 3 | Stain resistance of unglazed matte porcelain | EN ISO 10545-14 | Declared value | | | * Resistant |
|) | Brilliance | | | | | More or equal to that of mark and granite |
| | Color resistance to light | DIN 51094 | No noticeable color change. | | | No alteration after testing |
| | | DIN 51130 | | | | Declared value |
| | | DIN 51097 | | | - | Declared value |
| | Friction coefficient (slipperiness) | B.C.R.A D.M.236/ 89 | If needed | | - | > 0,40 Dry / > 0,40 Wet |
| | | ASTM C1028-2007 | | | - | > 0,60 Dry / ≥ 0,60 Wet |
| | | ANSI A 137.1-2012 | | | - | ≥ 0,42 Wet |