

MINERAL D

SPECIFICATION

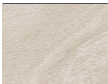
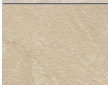



PORCELAIN STONEWARE

MATERIAL

Porcelain stoneware.

Classified in GROUP BIa UGL CON Ev ≤ 0,5% and GROUP BIa GL CON Ev ≤ 0,5%.

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

COLOR		SIZES	SURFACE	THICKNESS
	DOLOMITE	V3	MATTE ANTISLIP OPEN ANTISLIP (20 MM)	9 MM 20 MM
	ZOLFO	V3		
	RAME	V3		
	GALENA	V3		
	PIRITE	V3		
		MATTE RECTIFIED 60x60 (23 ^{5/8} "x23 ^{5/8} ") . 30x60 (11 ^{7/8} "x23 ^{5/8} ")		
		ANTISLIP NOT RECTIFIED 30x60 (11 ^{7/8} "x23 ^{5/8} ")		
		OPEN ANTISLIP RECTIFIED (20 MM) 60x60** (23 ^{5/8} "x23 ^{5/8} ")		

PROCESS certified according to the ISO 9001 quality standard

UGL: 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 Mineral 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



MINERAL D



PAVIMENTO



RIVESTIMENTO



FACCIATE VENTILATE



INTERNO RESIDENZIALE



ESTERNO RESIDENZIALE



INTERNO PUBBLICO



ESTERNO PUBBLICO



TRAFFICO PESANTE

TECHNICAL TABLE PORCELAIN STONEWARE

CONFORMING TO STANDARDS

EN 14411 ISO 13006 ANNEX G GROUP BIa UGL CON Ev ≤ 0,5%

PHYSICAL PROPERTIES	TESTING METHOD	REFERENCE STANDARD	PRODUCT VALUES																												
<p>Sizes</p>	EN ISO 10545-2		<table border="1"> <thead> <tr> <th></th> <th>7cm ≤ N < 15 cm (mm)</th> <th>N ≥ 15 cm (%) (mm)</th> <th>Rectified</th> </tr> </thead> <tbody> <tr> <td>Length and width</td> <td>±0.9</td> <td>±0.6 ±2.0</td> <td>±0.2 %</td> </tr> <tr> <td>Thickness</td> <td>±0.5</td> <td>±5.0 ±0.5</td> <td>±5 %</td> </tr> <tr> <td>Linearity</td> <td>±0.75</td> <td>±0.5 ±1.5</td> <td>±0.2 %</td> </tr> <tr> <td>Wedging</td> <td>±0.75</td> <td>±0.5 ±2.0</td> <td>±0.2 %</td> </tr> <tr> <td>Warping</td> <td>±0.75</td> <td>±0.5 ±2.0</td> <td>±0.2 %</td> </tr> <tr> <td>Appearance: percentage of acceptable tiles, per lot</td> <td>95 % min.</td> <td>95 % min.</td> <td>-</td> </tr> </tbody> </table>		7cm ≤ N < 15 cm (mm)	N ≥ 15 cm (%) (mm)	Rectified	Length and width	±0.9	±0.6 ±2.0	±0.2 %	Thickness	±0.5	±5.0 ±0.5	±5 %	Linearity	±0.75	±0.5 ±1.5	±0.2 %	Wedging	±0.75	±0.5 ±2.0	±0.2 %	Warping	±0.75	±0.5 ±2.0	±0.2 %	Appearance: percentage of acceptable tiles, per lot	95 % min.	95 % min.	-
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<p>Water absorption %</p>	EN ISO 10545-3	Ev ≤ 0,5%	< 0,1%																												
<p>Modulus of rupture</p>	EN ISO 10545-4	Valore medio 35 N/mm ² min.	45 N/mm ²																												
<p>Breakage resistance</p>		sp. > = 7,5 mm: min 1300 N sp. < 7,5 mm: min 700 N	2500 N (9 mm)																												
<p>Scratch resistance</p>	EN ISO 10545-6	175 mm3 max.	Average < 150 mm3																												
<p>Thermal expansion coefficient</p>	EN ISO 10545-8	Declared value	6,8 MK ⁻¹																												
<p>Thermal shock resistance</p>	EN ISO 10545-9	Pass according to iso 10545-1	* Resistant																												
<p>Frost resistance</p>	EN ISO 10545-12	Pass according to iso 10545-1	* Resistant																												
Resistance to low concentrations of acids and alkali	EN ISO 10545-13	Declared value	* Resistant																												
Resistance to high concentrations of acids and alkali		Declared value	* Resistant																												
Resistance to domestic chemicals and additives for swimming pools		UB min.	UA																												
<p>Stain resistance of unglazed matte porcelain</p>	EN ISO 10545-14	Declared value	* Resistant																												
<p>Friction coefficient (slipperiness)</p>	DIN 51130	If needed	Declared value																												
	DIN 51097		Declared value																												
	B.C.R.A. - D.M.236/ 89		> 0,40 Dry / > 0,40 Wet																												
	ANSI A326.3		≥ 0,42 Wet																												



Assessed by Ongreening, this product can potentially contribute to major green rating systems.
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