



## SHALE SPECIFICATION PORCELAIN STONEWARE

### MATERIAL

Porcelain stoneware.

Classified in GROUP Bla UGL CON Ev ≤ 0,5%.

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

Italgraniti masters the natural essence of slate, creating an intense new porcelain stoneware. Shale banishes artificial solutions, showcasing the product of in-depth, creative research through coordinated indoor and outdoor surfaces

COLOR			SIZES	SURFACE	THICKNESS
	MOON	V3	<b>MATTE RECTIFIED</b> 80x160 (32"x62 <sup>7/8"</sup> ) . 80x80 (32"x32") . 60x120 (23 <sup>5/8"</sup> x48") . 60x60 (23 <sup>5/8"</sup> x23 <sup>5/8"</sup> ) . 30x60 (11 <sup>7/8"</sup> x23 <sup>5/8"</sup> ) . 15x60 (6"x23 <sup>5/8"</sup> ) . 10x30 (4"x11 <sup>7/8"</sup> )  <b>RIBBED RECTIFIED</b> 60x120 (23 <sup>5/8"</sup> x48") . 30x60 (11 <sup>7/8"</sup> x23 <sup>5/8"</sup> ) . 10x60 (4"x23 <sup>5/8"</sup> )  <b>ANTISLIP RECTIFIED</b> 60x120 (23 <sup>5/8"</sup> x48")  <b>ANTISLIP NOT RECTIFIED</b> 30x60 (11 <sup>7/8"</sup> x23 <sup>5/8"</sup> )  <b>ANTISLIP RECTIFIED (20 MM)*</b> 60x120 (23 <sup>5/8"</sup> x48") . 60x60 (23 <sup>5/8"</sup> x23 <sup>5/8"</sup> ) (*Only SAND, GREIGE)	<b>MATTE</b>  <b>RIBBED</b>  <b>ANTISLIP</b>  <b>ANTISLIP (20MM)</b>	9 MM
	SAND	V3			
	TAUPE	V3			
	GREIGE	V3			20 MM
	ASH	V3			
	DARK	V3			

### PROCESS certified according to the ISO 9001 quality standard

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/cm<sup>2</sup> 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 Shale 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 .....





## SHALE



FLOOR



WALL



FACING SYSTEMS



RESIDENTIAL INDOOR



RESIDENTIAL OUTDOOR



PUBLIC INDOOR



PUBLIC OUTDOOR



HEAVY TRAFFIC

### 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		
			7cm ≤ N < 15 cm (mm)	N ≥ 15 cm (%) (mm)	
Sizes	EN ISO 10545-2		Length and width	±0.9 ±0.6 ±2.0	Rectified ±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 %
			Warpage	±0.75 ±0.5 ±2.0	±0.2 %
			Appearance: percentage of acceptable tiles, per lot	95 % min. 95 % min. -	
Water absorption %	EN ISO 10545-3	Ev ≤ 0,5%		< 0,1%	
Modulus of rupture		Valore medio 35 N/mm <sup>2</sup> min.		45 N/mm <sup>2</sup>	
Breakage resistance	EN ISO 10545-4	sp. > = 7,5 mm: min 1300 N sp. < 7,5 mm: min 700 N		2500 N (9 mm)	
Scratch resistance	EN ISO 10545-6	175 mm3 max.		Average < 150 mm3	
Thermal expansion coefficient	EN ISO 10545-8	Declared value		6,8 MK <sup>-1</sup>	
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	
Stain resistance of unglazed matte porcelain	EN ISO 10545-14	Declared value		* Resistant	
Friction coefficient (slipperiness)	DIN 51130			Declared value	
	DIN 51097	If needed		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.  
For more info visit [Ongreening.com](http://Ongreening.com)

