



ITALGRANITI

SHALE

SPECIFICATION

PORCELAIN STONEWARE

MATERIAL

Porcelain stoneware.

Classified in GROUP BIa 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	MATTE RECTIFIED 80x160 (32"x62 7/8") . 60x120 (23 5/8"x48") . 60x60 (23 5/8"x23 5/8") . 30x60 (11 7/8"x23 5/8") . 15x60 (6"x23 5/8") . 10x30 (4"x11 7/8") RIBBED RECTIFIED 60x120 (23 5/8"x48") . 30x60 (11 7/8"x23 5/8") . 10x60 (4"x23 5/8") ANTISLIP NOT RECTIFIED 30x60 (11 7/8"x23 5/8") ANTISLIP RECTIFIED (20 MM)* 60x120 (23 5/8"x48") (*Only SAND, GREIGE)	MATTE RIBBED ANTISLIP ANTISLIP (20MM)	9,5 MM 20 MM
	SAND	V3			
	GREIGE	V3			
	ASH	V3			
	DARK	V3			

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 Metaline 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





ITALGRANITI

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	
	Sizes	EN ISO 10545-2	7cm ≤ N < 15 cm		N ≥ 15 cm	Rectified	
			(mm)		(%) (mm)		
			Length and width		±0.9		±0.6 ±2.0
			Thickness		±0.5		±5.0 ±0.5
			Linearity		±0.75		±0.5 ±1.5
			Wedging		±0.75		±0.5 ±2.0
			Warpage		±0.75		±0.5 ±2.0
Appearance: percentage of acceptable tiles, per lot			95 % min.	95 % min.	-	Conforming	
	Water absorption %	EN ISO 10545-3	Eb ≤ 0,5%			Conforming	
	Modulus of rupture	EN ISO 10545-4	Valore medio 35 N/mm² min.			Conforming	
	Breakage resistance		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	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	
	Stain resistance of unglazed matte porcelain	EN ISO 10545-14	Declared value			* Resistant	
	Brilliance					More or equal to that of marble and granite	
	Color resistance to light	DIN 51094	No noticeable color change.			No alteration after testing	
	Friction coefficient (slipperiness)	DIN 51130				Declared value	
		DIN 51097				Declared value	
		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				