

Shale



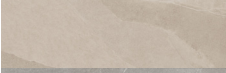



SPECIFICATION

Material

Porcelain stoneware. Classified in GROUP BIa UGL con $E_v \leq 0,5\%$.
Complies with all the requirements of UNI EN 14411 ISO 13006 APP. G standards.



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Catalog

COLOR		SIZES & SURFACES	THICKNESS
	Moon V3	<u>Mega Matte Rectified (6 mm)</u> 120x280 (47 ^{1/4} "x110 ^{1/4} ")	6 mm 9 mm 20 mm
	Sand V3	<u>Matte Rectified (9 mm)</u> 80x160 (31 ^{1/2} "x63") . 120x120 (47 ^{1/4} "x47 ^{1/4} ") . 60x120 (23 ^{1/2} "x47 ^{1/4} ") . 80x80 (31 ^{1/2} "x31 ^{1/2} ") 60x60 (23 ^{1/2} "x23 ^{1/2} ") . 30x60 (11 ^{7/8} "x23 ^{1/2} ") 15x60 (6"x23 ^{1/2} ") . 10x30 (4"x11 ^{7/8} ")	
	Taupe V3	<u>Ribbed Rectified (9 mm)</u> 60x120 (23 ^{1/2} "x47 ^{1/4} ") . 30x60 (11 ^{7/8} "x23 ^{1/2} ")	
	Greige V3	<u>Antislip Rectified (9 mm)</u> 60x120 (23 ^{1/2} "x47 ^{1/4} ")	
	Ash V3	<u>Antislip Not Rectified (9 mm)</u> 30x60 (11 ^{7/8} "x23 ^{1/2} ")	
	Dark V3	<u>Open Antislip Rectified (20 mm)</u> 60x120 (23 ^{1/2} "x47 ^{1/4} ") . 60x60 (23 ^{1/2} "x23 ^{1/2} ")	

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/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 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 _____



放射線水平A类



EN 14411



Shale

SPECIFICATION



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 (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 %
		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	EN ISO 10545-4	Valore medio 35 N/mm ² min.	45 N/mm ²
Breakage resistance		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 ⁻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
Friction coefficient (slipperiness)	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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