



ITALGRANITI

MATERIA D

SPECIFICATION
PORCELAIN STONEWARE

MATERIAL

Porcelain stoneware.

Classified in GROUP BIa UGL CON $E_b \leq 0,5\%$.

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

Three extraordinary surface finishes (Tecno, Forma, Rullato) define the highest, most sophisticated expression of concrete look porcelain stoneware. Five colors, a complete project: Bianco, Tortora, Grigio, Cenere, Fumo.

COLOR	SIZES	SURFACE	THICKNESS
BIANCO	TECNO RECTIFIED (V1) 60x120 (23 ^{5/8} "x48") . 20x120 (8"x48") . 60x60 (23 ^{5/8} "x23 ^{5/8} ") . 30x60 (11 ^{7/8} "x23 ^{5/8} ") . 45x90 (17 ^{3/4} "x36") . 15x90 (6"x36") FORMA RECTIFIED (V2) 60x120 (23 ^{5/8} "x48") . 20x120 (8"x48") . 60x60 (23 ^{5/8} "x23 ^{5/8} ") . 30x60 (11 ^{7/8} "x23 ^{5/8} ") . 45x90 (17 ^{3/4} "x36") . 15x90 (6"x36") RULLATO NOT RECTIFIED (V1) 30x60 (11 ^{7/8} "x23 ^{5/8} ")	TECNO (MATTE) FORMA (MATTE) RULLATO (ANTISLIP)	9,5 MM
TORTORA			
GRIGIO			
CENERE			
FUMO			

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 Materia 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





ITALGRANITI

MATERIA D



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 Eb ≤ 0,5%

PHYSICAL PROPERTIES		TESTING METHOD	REFERENCE STANDARD	PRODUCT VALUES		
	Sizes	EN ISO 10545-2		7cm ≤ N < 15 cm		N ≥ 15 cm
				(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.	-		
	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	If needed	Declared value		
		DIN 51097		Declared value		
		B.C.R.A. - D.M.236/ 89		> 0,40 Dry / > 0,40 Wet		
		ASTM C1028-2007		> 0,60 Dry / ≥ 0,60 Wet		
		ANSI A 137.1-2012		≥ 0,42 Wet		