

# ALNUS

## SPECIFICATION

### PORCELAIN STONEWARE







#### MATERIAL

Porcelain stoneware.

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

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

Alnus, wood effect collection, takes inspiration by alder wood and oak. The collection is available in 2 surface finishes, Matte and Antislip (R11 A+B+C) and it is completed by a range of 6 colors (Puro, Vaniglia, Neutro, Plumbeo, Mandorla, Terra) and 3 different sizes 20x160, 20x120, 15x90 (Matte surface) and 20x120 as for the Antislip surface.

COLOR			SIZES	SURFACE	THICKNESS	
	PURO	V2	<b>MATTE RECTIFIED</b> 20x160 (8"x64") . 20x120 (8"x48") . 15x90 (6"x36")	MATTE	9,5 MM	
	VANIGLIA	V2				
	NEUTRO	V2				
	PLUMBEO	V2		<b>ANTISLIP RECTIFIED</b> 20x120 (8"x64")		ANTISLIP
	MANDORLA	V2				
	TERRA	V2				

#### 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/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 Alnus 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 .....



# ALNUS



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 B1a UGL CON Eb ≤ 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
			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/mm <sup>2</sup> 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 mm <sup>3</sup> max.	Average < 150 mm <sup>3</sup>		
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	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		