

# Calcis


## SPECIFICATION

### Material

Porcelain stoneware. Classified in GROUP BIa UGL con  $E_v \leq 0,5\%$  and GROUP BIa GL 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
	<b>Avorio</b>	<b>V2</b>	Mega Polished Rectified (6 mm) 120x280 (47 <sup>1/4</sup> "x110 <sup>1/4</sup> ") Polished Rectified (9 mm) 120x120 (47 <sup>1/4</sup> "x 47 <sup>1/4</sup> ") . 60x120 (23 <sup>1/2</sup> "x47 <sup>1/4</sup> ")	6 mm 9 mm 20 mm
	<b>Crema</b>	<b>V2</b>	REAL UP Matte Rectified (9 mm) 120x120 (47 <sup>1/4</sup> "x 47 <sup>1/4</sup> ") . 60x120 (23 <sup>1/2</sup> "x47 <sup>1/4</sup> ") . 80x80 (31 <sup>1/2</sup> "x31 <sup>1/2</sup> ") . 60x60 (23 <sup>1/2</sup> "x23 <sup>1/2</sup> ") . 30x60 (11 <sup>7/8</sup> "x23 <sup>1/2</sup> ")	
	<b>Visone</b>	<b>V2</b>	STRIPE Rectified (9 mm) 60x120 (23 <sup>1/2</sup> "x47 <sup>1/4</sup> ") Antislip Rectified (9 mm) 60x120 (23 <sup>1/2</sup> "x47 <sup>1/4</sup> ")	
	<b>Corda</b>	<b>V2</b>	Antislip Not Rectified (9 mm) 30x60 (11 <sup>7/8</sup> "x23 <sup>1/2</sup> ") OPEN Antislip Rectified (20 mm) 80x80 (31 <sup>1/2</sup> "x31 <sup>1/2</sup> ")	

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

UGL: 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.

GL: Slabs obtained by pressing a pale-coloured spray-dried body mix of choice clays, glazed with satined glazes. Tiles are machined after cooking with the lapping process, that make them shiny and silky like natural stones. The colours are obtained using high-purity colorant oxides. The patterning is produced with the innovative DIGITAL TECHNOLOGY which offers an appearance of unrivalled beauty by re-creating the countless vein patterns of the different types of marble in high definition and with a precision in the details that make it difficult, if not impossible, to distinguish the material from the natural stones. The materials are fired in single-layer roller kilns at temperatures of over 1,200°C.

### Green building certified environmental sustainability

The tiles in the Calcis 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 \_\_\_\_\_



放射性水平A类



EN 14411



# Calcis

## 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 B1a UGL CON Ev ≤ 0,5%

PHYSICAL PROPERTIES	TESTING METHOD	REFERENCE STANDARD	PRODUCT VALUES
 Sizes	EN ISO 10545-2		<div> <div>7 cm ≤ N &lt; 15 cm (mm)</div> <div>N ≥ 15 cm (%) (mm)</div> </div> <div><b>Rectified</b></div>
		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 <sup>2</sup> min.	45 N/mm <sup>2</sup>
 Breakage resistance		sp. > = 7,5 mm: min 1300 N sp. < 7,5 mm: min 700 N	2300 N (9 mm) 12500 N (20 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	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)	EN 16165	Annex A	Declared value
		Annex B	Declared value
	B.C.R.A. - D.M.236/ 89	If needed	> 0,40 Dry / > 0,40 Wet
	ANSI A326.3	If needed	≥ 0,42 Wet

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FLOOR



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RESIDENTIAL INDOOR














PUBLIC INDOOR

### TECHNICAL TABLE PORCELAIN STONEWARE

CONFORMING TO STANDARDS

EN 14411 ISO 13006 ANNEX G GROUP BIa GL CON Ev ≤ 0,5%

Physical Properties		Testing Method	Reference Standard		Product Values	
 Sizes	EN ISO 10545-2		N ≥ 15 cm		Rettificato	
			(%)	(mm)		
			Length and width	±0.6	±2.0	±0.2 %
			Thickness	±5.0	±0.5	±05 %
			Linearity	±0.5	±1.5	±0.2 %
			Wedging	±0.5	±2.0	±0.2 %
			Warpage	±0.5	±2.0	±0.2 %
			Centre curvature	±0.5	±2.0	
			Déformation du bord	±0.5	±2.0	
			Warpage	±0.5	±2.0	
			Surface quality	95% of tiles with no visible flaws		
 Water absorption %	EN ISO 10545-3	Ev ≤ 0,5%	Conforming			
 Modulus of rupture	EN ISO 10545-4	Min 35 N/mm²	Conforming			
Breakage resistance		sp. > 7,5 mm: min 1300 N sp. < 7,5 mm: min 700 N	Conforming			
 Abrasion resistance	EN ISO 10545-7	Required	See single tile picture			
 Thermal expansion coefficient	EN ISO 10545-8	* Testing method available	6,8 MK <sup>-1</sup>			
 Thermal shock resistance	EN ISO 10545-9	* Testing method available	* Resistant			
 Glaze crazing resistance	EN ISO 10545-11	Required	* Resistant			
 Frost resistance	EN ISO 10545-12	Required	* Resistant			
 Resistance to low concentrations of acids and alkali	EN ISO 10545-13	See manufacturer's declaration	* Resistant			
Resistance to high concentrations of acids and alkali		Testing method available	* Resistant			
Resistance to domestic chemicals and additives for swimming pools		GB min.	Conforming			
 Stain resistance of unglazed matte porcelain	EN ISO 10545-14	Declared value	* Resistant			
 Friction coefficient (slipperiness)	B.C.R.A. - D.M.236/ 89	If needed	See single tile picture			