

NORDIC STONE

SPECIFICATION PORCELAIN STONEWARE



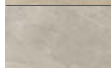
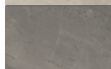

MATERIAL

Porcelain stoneware.

Classified in GROUP Bla UGL CON Ev ≤ 0,5%.

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

Nordic Stone is a stone project which takes inspiration from the Nord European Burlington stone. The color range includes 5 different colors (Islanda, Danimarca, Norvegia, Svezia e Finlandia), 3 warm colors e 2 cold colors and 4 different surface finishes: Matte, Satined Honed, Fibre and Antislip (R 11 A+B+C) in the special outdoor 20mm thickness.

COLOR		SIZES		SURFACE	THICKNESS
	ISLANDA	V2	MATTE RECTIFIED 80x160 (32"x64") . 20x160 (8"x64") . 60x120 (23 ⁵ / ₈ "x64") . 20x120 (8"x64") . 60x60 (23 ⁵ / ₈ "x23 ⁵ / ₈ ") . 30x60 (11 ⁷ / ₈ "x23 ⁵ / ₈ ") . 20x60 (8"x23 ⁵ / ₈ ") . 10x60 (4"x23 ⁵ / ₈ ") . 45x90 (17 ³ / ₄ "x36") . 22,5x90 (9"x36") HONED SATIN RECTIFIED 80x160 (32"x64") . 60x120 (23 ⁵ / ₈ "x64") . 60x60 (23 ⁵ / ₈ "x23 ⁵ / ₈ ") . 45x90 (17 ³ / ₄ "x36") FIBRE RECTIFIED 60x120 (23 ⁵ / ₈ "x64") ANTISLIP NOT RECTIFIED 30x60 (11 ⁷ / ₈ "x23 ⁵ / ₈ ") ANTISLIP RECTIFIED (20 MM) 60x120 (23 ⁵ / ₈ "x23 ⁵ / ₈ ") (only DANIMARCA, SVEZIA)	MATTE HONED SATIN FIBRE ANTISLIP ANTISLIP (20MM)	9 MM
	DANIMARCA	V2			
	NORVEGIA	V2			
	SVEZIA	V2			20MM
	FINLANDIA	V2			

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 Nordic Stone 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





NORDIC STONE



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		<table border="1"> <thead> <tr> <th></th> <th>7cm ≤ N < 15 cm (mm)</th> <th>N ≥ 15 cm (%) (mm)</th> <th>Rectified</th> </tr> </thead> <tbody> <tr> <td>Length and width</td> <td>±0.9</td> <td>±0.6 ±2.0</td> <td>±0.2 %</td> </tr> <tr> <td>Thickness</td> <td>±0.5</td> <td>±5.0 ±0.5</td> <td>±5 %</td> </tr> <tr> <td>Linearity</td> <td>±0.75</td> <td>±0.5 ±1.5</td> <td>±0.2 %</td> </tr> <tr> <td>Wedging</td> <td>±0.75</td> <td>±0.5 ±2.0</td> <td>±0.2 %</td> </tr> <tr> <td>Warpage</td> <td>±0.75</td> <td>±0.5 ±2.0</td> <td>±0.2 %</td> </tr> <tr> <td>Appearance: percentage of acceptable tiles, per lot</td> <td>95 % min.</td> <td>95 % min.</td> <td>-</td> </tr> </tbody> </table>		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.	-
			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.
 For more info visit Ongreening.com





NORDIC STONE



FLOOR



WALL



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	N ≥ 15 cm		PRODUCT VALUES	
			(%)	(mm)		
Sizes	EN ISO 10545-2		Length and width	±0.6	±2.0	±0.2 %
			Thickness	±5.0	±0.5	±0.5 %
			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%	
Modulus of rupture		Min 35 N/mm ²			Conforming	
Breakage resistance	EN ISO 10545-4	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 ⁻¹	
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		See manufacturer's declaration			* Resistant	
Resistance to high concentrations of acids and alkali	EN ISO 10545-13	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	