

SILVER GRAIN + CEPPO DI GRÉ

SPECIFICATION

PORCELAIN STONEWARE

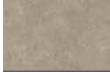
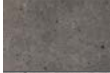


MATERIAL

Porcelain stoneware.

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

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

Silver Grain and Ceppo di Gré are unique, perfect and inimitable materials, designed for unison in combinations of unprecedented beauty, ensuring impeccable material design. 7 colors (5 Silver Grain and 2 Ceppo di Gré) and an infinity of sizes in thickness 6 mm, 9 mm and 20 mm for outdoor use.

COLOR		SIZES	SURFACE	THICKNESS
	SILVER GRAIN WHITE	V2	MATTE (MEGA) MATTE ANTISLIP ANTISLIP (20MM)	6 MM 9 MM 20 MM
	SILVER GRAIN BEIGE	V2		
	SILVER GRAIN GREY	V2		
	SILVER GRAIN TAUPE	V2		
	SILVER GRAIN DARK	V2		
	CEPPO DI GRÉ GREY	V2		
	CEPPO DI GRÉ DARK	V2		
		MATTE RECTIFIED (MEGA) 160x320 (62 ^{7/8} "x125 ^{3/4} ") . 120x260 (48"x96") (only Silver Grain: WHITE, GREY, DARK - Ceppo di Gré: GREY)		
		MATTE RECTIFIED 120x120 (48"x48") . 60x120 (23 ^{5/8} "x48") . 80x80 (32"x32") . 60x60 (23 ^{5/8} "x23 ^{5/8} ") . 30x60 (11 ^{5/8} "x23 ^{5/8} ")		
		ANTISLIP RECTIFIED 60x120 (23 ^{5/8} "x48") . 60x60 (23 ^{5/8} "x23 ^{5/8} ") . 30x60 (11 ^{5/8} "x23 ^{5/8} ") (only Silver Grain)		
		SILVER GRAIN: ANTISLIP RECTIFIED (20 MM) 60x120 (23 ^{5/8} "x48") . 80x80 (32"x32") . 60x60 (23 ^{5/8} "x23 ^{5/8} ") (only Silver Grain: GREY, DARK, TAUPE)		
		CEPPO DI GRÉ: ANTISLIP RECTIFIED (20 MM) 80x80 (32"x32")		

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 Silver Grain and Ceppo di Gré 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.

SILVER GRAIN + CEPPO DI GRÉ



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.	-
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Water absorption %	EN ISO 10545-3	Ev ≤ 0,5%	< 0,1%																												
Modulus of rupture		Valore medio 35 N/mm ² min.	45 N/mm ²																												
Breakage resistance	EN ISO 10545-4	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 mm ³ max.	Average < 150 mm ³																												
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		Declared value	* Resistant																												
Resistance to high concentrations of acids and alkali	EN ISO 10545-13	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		Declared value																												
	DIN 51097		Declared value																												
	B.C.R.A. - D.M.236/ 89	If needed	> 0,40 Dry / > 0,40 Wet																												
	ANSI A326.3		≥ 0,42 Wet																												