



## SILVER GRAIN + CEPPO DI GRÉ

### 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.

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

#### 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/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 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.

Size .....

Finishes .....

Color ..... Type .....



放射性水平 A



EMAS  
GESTIONE AMBIENTALE  
VERIFICATA  
N. Registro IF-000058



ISO 14001  
BUREAU VERITAS  
Certification



ISO 6901  
BUREAU VERITAS  
Certification



ISO 9001  
BUREAU VERITAS  
Certification



## 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 &lt; 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 <sup>2</sup> min.	45 N/mm <sup>2</sup>																												
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 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		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	If needed	Declared value																												
	B.C.R.A. - D.M.236/ 89		> 0,40 Dry / > 0,40 Wet																												
	ANSI A326.3		≥ 0,42 Wet																												

