

SPECIFICATIONS of: SAPIENSTONE

Supply of porcelain stoneware Sapienstone.

1. Product and process features

Porcelain stoneware slabs classifiable as group Impervious P1, frost-proof slabs that resist to chemical attacks, achieved through dry-forming of high-quality mixtures made up of atomized and mixed natural raw materials (kaolin minerals, feldspars).

2. Compliance with Standards

The material, in compliance with the requirements of American standards ANSI A 137.1: June 2021, ANSI A326.3-2021 and ASTM Section 15 Volume 15.02, must meet the following technical features:

ASTM C373 – 18 (Water absorption)

ASTM C499 – 20 (Facial dimension and Thickness)

ASTM C485 – 16 (Warpage)

ASTM C502 – 16 (Wedging)

ASTM C482 – 20 (Bond Strength)

ASTM C648 – 20 (Breaking Strength)

ASTM C1895 – 20 (Hardness - Mohs)

ASTM C1243 (Deep abrasion)

ASTM C1026 – 13 (Frost Resistance)

ASTM C650 – 20 (Chemical Resistance)

ASTM C1378 – 20 (Stain Resistance)

ANSI A 326.3 – 2021 (DCOF).

The Quality Control System implemented by the company guarantees the mentioned above features in accordance with UNI-EN-ISO 9001:2015 standards.

The slabs have been checked and evaluated by an independent third-party Body which certifies their compliance to the LEED_BREEAM.

3. Commercial Description of the Product

Company	Sapienstone
Collection	Sapienstone
Product	Silver Wave 4D, Kuroca 4D, Jatoba Brown 4D, Fior Di Viola 4D, Calacatta Macchia Vecchia 4D, Calacatta 4D, Arabescato 4D, White Calacatta, Urban Argento, Urban Antracite, Uni Ice, Travessa, Taj Mahal, Rovere Buckskin, Rovere Baio, Quartzite Vals, Premium White, Platinum White, Pietra Grey, Piasentina, Palladium Grey, Luna Limestone, Grigio Savelli, Fior Di Bosco, Dark Marquina, Crema Neve, Crema Avorio, Ceppo Varese, Calacatta Macchia Vecchia, Calacatta, Bright Onyx, Breccia Imperiale, Black Diamond, Bianco Lasa, Balance Steel Blue, Balance Ochre, Balance Nude, Balance Marsala Red, Balance Light Grey, Balance Ivory, Balance Chester Green, Balance Azure, Arabescato, Alaska White
Finish	Cashmere, Polished, Top Lapped, Natural, Silky, Structured
Rectified/Unrectified	Unrectified
Size in inch	60"x126", 63"x126"
Size in cm	150x320cm, 160x320 cm
Thickness in mm	12mm, 20mm

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Dimensions

Materials supplied in Mono-caliber.

Nominal Size in mm	Working Size in mm
1500x3200.4mm, 1600.2x3200.4mm	

4. Technical Features

Chemical Physical	Norms	Required Standards	Average ICG Production Values ⁽¹⁾
Water absorption	ASTM C 373 - 18	Impervious ≤ 0.5 %	≤ 0.1 %
Thickness Variation	ASTM C 499 - 20	± 0.02 inch	± 0.02 inch
Facial Dimension		± 0.25 %	± 0.25 %
Wedging	ASTM C 502 - 16	± 0.25 %	± 0.25 %
Dry Bond Strength	ASTM C 482 - 20	≥ 150 psi	≥ 150 psi
Breaking Strength	ASTM C 1505 - 20	≥ 175 lbf	≥ 175 lbf
Hardness (Mohs)	ASTM C 1895 - 20	Range 0 - 10	≥ 7 ⁽³⁾
Deep Abrasion	ASTM C 1243 - 93 (2015)	Impervious $\leq 175\text{mm}^3$ (0.011in ³)	140mm ³
Frost Resistance	ASTM C 1026 - 13 (2018)	No sample must show alterations to surface	No evidence of damage
Chemical Resistance	ASTM C 650 - 20	Range A / E	Class A ⁽⁴⁾
Stain Resistance	ASTM C 1378 - 20	Range A / E	Class A ⁽⁴⁾
Slip Resistance (DCOF)	ANSI A 326.3 -2021	≥ 0.42	≥ 0.42 ⁽²⁾ ≥ 0.45 ⁽²⁾ Structured
Aesthetic Classification	Visual Evaluation Shade & Texture	Range VI / V4	VI- V3

Note:

(1) -> All values given are for textured/natural finish. Values for different finishes are available upon request.

(2) -> DCOF results referring to textured/natural products are performed with the WET test, while for polished, semi-polished and silky the DCOF test is performed DRY. The values of dynamic friction coefficient (DCOF) shown in the catalogue, web site or sales documents in general, are purely indicative and not binding. Any specific requirement must be confirmed by us at the time of ordering and, in any case, before installation.

(3) -> Mohs result referring to textured/natural finish. For polished/silky finish: ≥ 6

(4) -> Chemical and stain resistance are referring to textured/natural finish. For polished/silky finish, tests are provided on request

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