

SPECIFICATIONS of collection: SAPIENSTONE 4D

Supply of porcelain stoneware SapienStone.

1. Product and process features

Full body porcelain stoneware slabs with through-body vein, classifiable as group Bla, frost-proof slabs that resist to chemical attacks, achieved through dry-forming of high-quality bodies made up of natural raw materials (kaolin minerals, feldspars), atomised, mixed. The slabs are made mechanically resistant through a sintering process at very high temperatures.

2. Compliance with Standards

The material, in compliance with the requirements of European standards EN 14411 Encl. G and International standards ISO13006 Encl. G, must meet the following technical features:

ISO 10545-3 (Water absorption)

ISO 10545-2 (Dimensions and surface quality)

ISO 10545-4 (Modulus of rupture (R))

ISO 10545-6 (Resistance to deep abrasion)

ISO 10545-8 (Thermal expansion coefficient)

ISO 10545-9 (Thermal shock resistance)

ISO 10545-12 (Frost resistance)

ISO 10545-13 (Chemical resistance)

ISO 10545-14 (Stain resistance)

and it must comply with the DIN 51094 standard (Color resistance to light).

The Quality Control System implemented by the company guarantees the mentioned above features in accordance with **UNI-EN-ISO 9001:2015** standards; our company also guarantees the constant respect of the laws in force concerning the health and safety of workers through the **ISO 45001** management scheme.

Slabs, with a low environmental impact, obtained by pursuing policies of continuous improvement aimed at reducing the wastes of non-renewable resources by using natural raw materials that are not environmentally valuable.

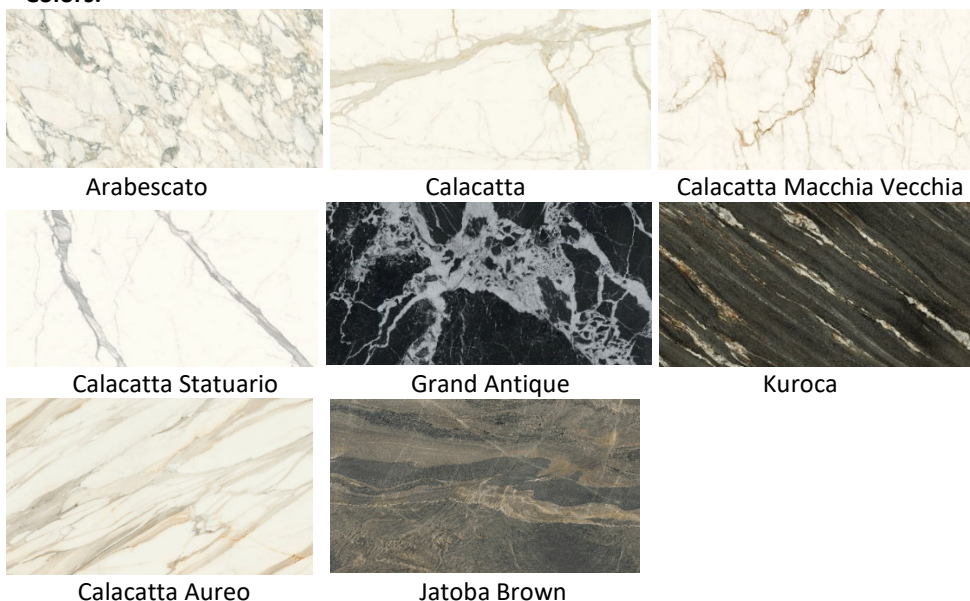
Objectives achieved through the adoption of Environmental and Energy Management Systems respectively certified in accordance with the **UNI-EN ISO 14001:2015** and **ISO 50001:2018** standards as well as through the registration to the "ECO-MANAGEMENT" Community system according to the requirements of the EMAS Regulations.

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 4D
Product	Arabescato - Calacatta - Calacatta Macchia Vecchia - Calacatta Statuario - Grand Antique – Kuroca – Calacatta Aureo
Finish	Cashmere – Polished
Product	Jatoba Brown
Finish	Lapped
Size in cm	320x160
Thickness in mm	12

Colors:



4. Technical features

Chemical Physical	Norms	Required Standards	Average Values of Production
Water absorption	ISO 10545-3	≤ 0,5%	≤ 0,1%
Thickness	ISO 10545-2	± 5%	± 5,0%
Surface Flatness		± 0,5%	± 0,2%
Modulus of rupture (R)	ISO 10545-4	≥ 35 N/mm ²	49 N/mm ²
Resistance to deep abrasion	ISO 10545-6	≤ 175 mm ³	140 mm ³
Thermal expansion coefficient	ISO 10545-8	Test method available	6,5x10 ⁻⁶ °C ⁻¹
Thermal shock resistance	ISO 10545-9	Test method available	Resistant
Frost resistance	ISO 10545-12	No sample must show appreciable breakages or alterations	Compliant
Chemical resistance* Household chemicals and swimming pool salts	ISO 10545-13	Min. Classe B	Compliant
Stain resistance	ISO 10545-14	Test method available 1<X≤5	Compliant
Color resistance to light	DIN 51094	No sample should show appreciable color variations	No change in brightness or color
Reaction to fire	Decision 96/603 CE Test absent	---	A1 – A1 _{FL}

(*) With the exception of HYDROFLUORIC acid (HF) or its derivatives and compounds.

Date: 12/07/2023