

SPECIFICATIONS of collection: ELEMENTI

Supply of Iris Ceramica porcelain stoneware.

1. Product and process features

Porcelain stoneware slabs classifiable as group Bla, 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). 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 10545-7 (Resistance to superficial 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, requirements and registered at Environdec, having obtained the Environmental Product Declaration EPD (type III) based on analysis of the product life cycle

(s. CRADLE-TO-GRAVE approach – <https://www.environdec.com/Detail/epd1439>).

3. Commercial Description of the Product

Company	Iris Ceramica
Collection	ELEMENTI
Product	Lava Bianca - Lava Carbone - Lava Giallo - Lava Grigio - Lava Porpora - Pietra Di Sciara Carbone - Pietra Di Sciara Grigio - Pietra Di Sciara Polvere - Pietra Di Sciara Sabbia - Pietra Di Sciara Visone - Terra Bianca - Terra Carbone - Terra Polvere - Terra Porpora - Terra Tabacco - Terra Visone
Finish	Matt
Size in inch	48x48 - 48x24 - 24x24 - 24x12
Size in cm	120x120 - 120x60 - 60x60 - 60x30
Thickness in mm	8

Dimensions

Materials supplied in Mono-caliber.

Nominal size in mm	Working size in mm
1200x1200 - 1200x600 - 600x600 - 600x300	1195,8 x 1195,8 - 1195,8x595,8 - 595,8x595,8 - 595,8x296,4

4. Technical features

Chemical Physical	Norms	Required Standards	Average Values of Production
Water absorption	ISO 10545-3	≤ 0,5%	≤ 0,1%
Length and Width	ISO 10545-2	± 0,6%	± 0,2%
Thickness		± 5%	± 5,0%
Linearity		± 0,5%	± 0,2%
Rectangularity		± 0,5%	± 0,2%
Surface Flatness		± 0,5%	± 0,2%
Modulus of rupture (R)	ISO 10545-4	≥ 35 N/mm ²	Compliant
Resistance to superficial abrasion	ISO 10545-7	Test method available	On request
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 significant breakages or alterations	Compliant
Chemical resistance* - Household chemicals Swimming pool salts - Low concentration of acid and alkalis - High concentration of acid and alkalis	ISO 10545-13	- Min. Class B - Manufacturer is to state classification - Test method available	A LA HA
Stain resistance	ISO 10545-14	Min. Class 3	Class 5
Color resistance to light	DIN 51094	No sample should show significant color variations	No change in brightness or color
Reaction to fire	Decision 96/603 CE Test absent	---	A1 – A1FL

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

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