

SPECIFICATIONS of: FENCE

Supply of porcelain stoneware Iris Ceramica.

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 (Warping)

ASTM C502 – 16 (Wedging)

ASTM C648 – 20 (Breaking Strength)

ASTM C424 – 20 (Crazing Strength)

ASTM C484 – 20 (Thermal Shock)

ASTM C1027 – 19 (Visible Abrasion Resistance)

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	Iris Ceramica
Collection	Fence
Product	Black, Decoro, Grey, Microblack, Microdecoro, Microgrey, Microwhite, White
Finish	Matte, Glossy
Rectified/Unrectified	Unrectified
Size in inch	8"x8"
Size in cm	20x20cm
Thickness in mm	7.5 mm

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4. Technical Features

Chemical Physical	Norms	Required Standards	Average ICG Production Values ⁽¹⁾
Water absorption	ASTM C 373 - 18	P4	≤ 20.0 %
Thickness Variation	ASTM C 499 - 20	0.031 inch (0.79mm)	0.031 inch (0.79mm)
Facial Dimension		± 0.018 in size < 6"	± 0.018 in
		± 0.30% size ≥ 6"	± 0.30%
Warpage Average Diagonal	ASTM C 485 - 16	- 0.018 in / + 0.024 inch size < 6"	- 0.018/+ 0.024 in
		- 0.30% / + 0.40 % size ≥ 6"	- 0.30% / + 0.40 %
Warpage Average Edge		- 0.018 in / + 0.024 in size < 6"	- 0.018/+ 0.024 in
		- 0.30% / + 0.40 % size ≥ 6"	- 0.30% / + 0.40 %
Wedging	ASTM C 502 - 16	± 0.024 in size < 6"	± 0.024 in
		± 0.40 % size ≥ 6"	± 0.40 %
Breaking Strength	ASTM C 648 - 20	≥ 125 lbf	≥ 125 lbf
Crazing Resistance	ASTM C C424 - 20	Pass	Pass
Thermal Shock	ASTM C484 - 20	Pass	Pass
Aesthetic Classification	Visual Evaluation Shade & Texture	Range VI / V4	V2

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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