

SPECIFICATIONS of collection: ULTRA PIETRE

[English version](#)

Supply of porcelain stoneware Ariostea.

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 10545-6 (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, 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	Ariostea
Collection	ULTRA PIETRE
Product	Basaltina Antracite - Basaltina Grey - Basaltina Moka - Basaltina Sand - Basaltina White - Infinity Black - Galaxy Grey - White Ocean
Finish	Soft
Size in inch	120x60 - 108x48 - 120x40 - 60x60 - 60x40 - 48x48 - 60x30 - 40x40 - 30x30 - 30x15
Size in cm	300x150 - 270x120 - 300x100 - 150x150 - 150x100 - 120x120 - 150x75 - 100x100 - 75x75 - 75x37,5
Thickness in mm	6

Dimensions

Materials supplied in Mono-caliber.

Nominal size in mm	Working size in mm
3000x1500 - 2700x1200 - 3000x1000 - 1500x1500 - 1500x1000 - 1200x1200 - 1500x750 - 1000x1000 - 750x750 - 750x375	3002x1500 - 2700x1200 - 3002x1000 - 1500x1500 - 1500x1000 - 1200x1200 - 1500x749 - 1000x1000 - 749x749 - 749x373,5

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%	± 0,1%
Thickness		± 5%	± 5,0%
Linearity		± 0,5%	± 0,1%
Rectangularity		± 0,5%	± 0,1%
Surface Flatness		± 0,5%	± 0,2%
Modulus of rupture (R)		ISO 10545-4	≥ 35 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 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	1<X≤5	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
Slip resistance	DIN EN 16165-ANNEX B DIN EN 16165-ANNEX A	Test method available	On request

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

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