



TECHNICAL DATA-SHEET COLLECTION TEKNOSTONE

1. Properties and process features

Porcelain stoneware slabs, classifiable according to EN14411 as group BIa.

The slabs consist of single, compact, frostproof, impervious mass that resists chemical attacks, achieved through dry-forming of high-quality bodies made up of natural raw materials (kaolin minerals, feldspars and inert materials), atomised, mixed in the press. The slabs are made mechanically resistant through a sintering process at very high temperatures.

2. Compliance with Standards

In compliance with the requirements of the European standards EN14411 and International ISO13006, Annex G:

UNI EN ISO 10545.2 (sizes and surface quality tolerances)

UNI EN ISO 10545.3 (water absorption)

UNI EN ISO 10545.4 (bending strength)

UNI EN ISO 10545.6 (resistance to deep abrasion)

UNI EN ISO 10545.8 (coefficient of linear thermal expansion)

UNI EN ISO 10545.9 (resistance to thermal shocks)

UNI EN ISO 10545.13 (resistance to chemicals)

UNI EN ISO 10545.12 (resistance to frost)

UNI EN ISO 10545.14 (resistance to stains)

and must ensure compliance with DIN 51094 (colour resistance to light).

The maintenance of aforesaid features must be ensured by the Quality Control System implemented by the company in accordance with standard **UNI-EN ISO 9001:2015**.

Slabs, with a low environmental impact, obtained by pursuing policies of continuous improvement aimed at reducing the wastes of non-renewable resources by using raw materials found in nature, through the adoption of an Environmental Management System certified in accordance with standard **UNI-EN ISO 14001:2015** and/or registration to the “*ECO-MANAGEMENT*” Community system, in accordance with the provisions of CE 1221/2009 *EMAS* Regulations.

The slabs have been checked and evaluated by Bureau Veritas which certifies their compliance to the **LEED_BREEAM** provisions.

3. Commercial Description of Product

COMPANY	Ariosteal
COLLECTION	TEKNOSTONE
SIZE mm	1500x750 – 750x750
FINISH	Natural
THICKNESS mm	6,0

Completely vitrified materials belonging to Group BIa
Meets requirements of standard EN 14411 Annex G-UGL.

DIMENSIONS:












Materials supplied rectified and squared at caliber 0 (monocaliber).

Nominal Dimension mm	Average Manufacturing Dimension mm
1500 x 750	1500 x 749
750 x 750	749 x 749

COLOURS:



4. Technical features and product brands

TECHNICAL FEATURES		MEASURING STANDARDS OR METHOD	ARIOSTEA VALUE (Average production value)
	WATER ABSORPTION	ISO 10545.3	0,03 % - 0,06 %
	SIZES	ISO 10545.2	± 0.1% Length and width ± 5% Thickness ± 0.1% Edge straightness ± 0.1% Orthogonality ± 0.2% Flatness
	MODULUS OF RUPTURE (R)	ISO 10545.4	48 N/mm ²
	RESISTANCE TO DEEP ABRASION	ISO 10545.6	142 mm ³
	COEFFICIENT OF LINEAR THERMAL EXPANSION	ISO 10545.8	6,5 MK ⁻¹
	RESISTANCE TO THERMAL SHOCKS	ISO 10545.9	Resistant
	RESISTANCE TO FROST	ISO 10545.12	Frostproof
	RESISTANCE TO CHEMICALS	ISO 10545.13	Conforms
	STAIN RESISTANCE	ISO 10545.14	Conforms
	COLOUR RESISTANCE TO LIGHT	DIN 51094	Unaffected
	FIRE PROOF	Decision 96/603 CE <i>not requested</i>	Class A1 – A1 _{FL}