

TECHNICAL DATA SHEET – ITEM SPECIFICATIONS

“INSPIRE” - wall tiles collection

1. Process characteristics

White body tiles made by dry pressing of atomized clay mix of high-quality natural raw materials (clays, feldspar, and aggregates). The support thus obtained is first baked, then enamelled and baked again at temperatures above 1100 ° C resulting in a compact mass with average water absorption and resistant to chemical attack.

2. Regulatory compliance

The material complies, only for first choice, with the requirements UNI EN 14411 appendix L, and ISO 13006 with respect to physical and chemical surface properties. For the safety features of the CE marking, compliance is extended to all commercial choices. Compliance maintenance is ensured by the Quality Management System, implemented by the company and certified according to UNI EN ISO 9001.

3. Technical features

European standard UNI EN 14411 - Appendix L – Dry-pressed ceramic tiles – GROUP III GL

	Technical feature	Norms	Required standards			Production Ceramica Sant'Agostino
			(7 ≤ N < 15 cm)	(for N > 15 cm)		
			mm	(%)	mm.	
REGULARITY CHARACTERISTICS	LENGHT AND WIDTH (Acceptable deviation of the average size of each tile from the manufacturing size W)	UNI EN ISO 10545-2	± 0,75	± 0,5	± 2,0	COMPLIANT
	THICKNESS		± 0,5	± 10	± 0,5	COMPLIANT
	STRAIGHTNESS OF EDGES		± 0,5	± 0,3	± 1,5	COMPLIANT
	RECTANGULARITY		± 0,75	± 0,5	± 2,0	COMPLIANT
	SURFACE FLATNESS		+ 0,75 - 0,50 ± 0,75	+ 0,5 - 0,3 ± 0,5	+ 2,0 - 1,5 ± 2,0	COMPLIANT
	SURFACE QUALITY		A minimum of 95 % of the tiles shall be free from visible defects			COMPLIANT

	Technical feature	Norms	Required standards	Average production
BULK MECHANICAL CHARACTERISTICS (MASSIVE, SURFACE AND THERMO-HYGROMETRIC)	WATER ABSORPTION	UNI EN ISO 10545-3	Eb > 10 %	14 - 16 %
	BREAKING STRENGTH (S) – MODULUS OF RUPTURE (R)	UNI EN ISO 10545-4	S ≥ 600 N R ≥ 12 N/mm ²	S > 1200 N R > 18 - 20 N/mm ²
	CRAZING RESISTANCE	UNI EN ISO 10545-11	REQUIRED	RESISTANT
CHEMICAL CHARACTERISTICS	RESISTANCE TO HOUSEHOLD CHEMICALS AND SWIMMING POOL SALTS	UNI EN ISO 10545-13	Minimum Class GB	COMPLIANT
	RESISTANCE TO LOW CONCENTRATIONS OF ACIDS AND ALKALIS		Manufacturer to state classification	RESISTANT
	RESISTANCE TO STAINING	UNI EN ISO 10545-14	Minimum Class 3	COMPLIANT



“Contribute of Ceramica Sant’Agostino products to LEED certification points”

MATERIALS & RESOURCES (MR CREDITS)

- **Building Product Disclosure and Optimization – Environmental Product Declarations** (1/2 point)

Porcelain Tiles of Ceramica Sant’Agostino are manufactured respecting the Life Cycle Assessment (LCA) and contribute to LEED points by EPD (Environmental Product declaration) Media Sector certified by IBU and ECO PLATFORM.

- **Construction and Demolition Waste Management** (2 points)

The products of Ceramica Sant’Agostino can contribute to management of building wastes because the recyclable material and especially the used packaging does not exceed 2.5% of the total weight of a supply average (1 pallet of about 870 kg). Packing waste can reach at least value below 2 kgs (with option 2 it helps to reduce the waste material because less than 12.2 kgs/m² of building area).

ENERGY AND ATMOSPHERE (EA CREDITS)

- **Optimize Energy Performance** (1 to 20 points depending on the scope)

In performance analysis, tiles are part of the opaque elements of the packaging. The thermal conductivity λ of Ceramica Sant’Agostino products is **0,7 Watt/m·K** (0,6 Kcal/m·h·°C). The low thermal conductivity of tiles contributes to the optimization of the building’s energy performance minimizing the environmental and economic impacts associated with excessive energy use.

INDOOR ENVIRONMENTAL QUALITY (EQ CREDITS)

- **Low-Emitting Materials (No VOC)** (1 to 3 points)

Ceramica Sant’Agostino products do not emit VOC (volatile Organic Compounds) because they contain inert materials that satisfy automatically the requirements.

INNOVATION (IN CREDITS)

➤ **Innovation**

(1 to 5 points)

Ceramica Sant'Agostino products are environmentally friendly due to the absence of harmful materials to humans and to the environment and also due to the production process performed with the lowest environmental impact made possible by the today technology.



For any other technical features and for more information please see the general catalogue or our internet site www.ceramicasantagostino.it

Ceramica Sant'Agostino reserves the right to make amendments or changes at any time as described in this document.