



TECHNICAL DATA SHEET – ITEM SPECIFICATIONS

"VENISTONE "- collection

1. Process characteristics

Ceramic Porcelain tiles made by dry pressing of atomized clay mix of high-quality natural raw materials (clays, feldspar, and aggregates). The support thus obtained is enamelled and fired at temperatures above 1200 °C resulting in a compact mass, impervious and resistant to chemical attack.

2. Regulatory compliance

The material complies, only for first choice, with the requirements UNI EN 14411 appendix G, and ISO 13006 with respect to physical and chemical surface properties. For the safety features of the C ϵ 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 - Annex G – Dry-pressed ceramic tiles with low water absorption – GROUP BIa GL

	Technical	Norms	Required std N <7cm	Required std 7 ≤ N< 15 cm	Required std for N ≥ 15 cm		Production Ceramica
	feature		(mm)	(mm)	(%)	(mm)	Sant'Agostino
REGULARITY CHARACTERISTICS	LENGHT AND WIDTH (Acceptable deviation of the average size of each tile from the manufacturing size W)	UNI EN ISO 10545-2	± 0,5	± 0,9	± 0,6	± 2,0	COMPLIANT
	THICKNESS		± 0,5	± 0,5	± 5	± 0,5	COMPLIANT
	STRAIGHTNESS OF EDGES		Without testing	± 0,75	± 0,5	± 1,5	COMPLIANT
	RECTANGULARITY		Without testing	± 0,75	± 0,5	± 2,0	COMPLIANT
	SURFACE FLATNESS		Without testing	± 0,75	± 0,5	± 2,0	COMPLIANT
	SURFACE QUALITY		A minimum of 95 % of the tiles shall be free from visible defects				COMPLIANT

ceramica SANT'AGOSTINO



	Technical features	Norms	Required standards	Average production
BULK MECHANICAL CARACTERISTCHS (MASSIVE, SURFACE AND THERMO- HYGROMETRIC)	WATER ABSORPTION	UNI EN ISO 10545-3	Eb ≤ 0,5 %	< 0,1 %
	BREAKING STRENGHT (S) – MODULUS OF RUPTURE (R)	UNI EN ISO 10545-4	S ≥ 1300 N R ≥ 35 N/mm²	S COMPLIANT R > 45 N/mm ²
	CRAZING RESISTANCE	UNI EN ISO 10545-11	REQUIRED	RESISTANT
	FROST RESISTANCE	UNI EN ISO 10545-12	REQUIRED	RESISTANT
CHEMICAL CHARACTERISTICS	RESISTANCE TO HOUSEHOLD CHEMICALS AND SWIMMING POOL SALTS	UNI EN ISO 10545-13	Minimum Class GB	COMPLIANT
	RESISTANCE TO STAINING	UNI EN ISO 10545-14	Minimum Class 3	COMPLIANT
SAFETY CHARACTERISTICS	STATIC COEFFICIENT OF FRICTION	ASTM C1028	≥ 0,60	COMPLIANT (Nat+Rigato)
	DYNAMIC COEFFICIENT OF FRICTION	ANSI A 137.1 (DCOF)	≥ 0,42	COMPLIANT (Nat+Rigato)
	PENDULUM TESTERS	BS 7976-2	PTV ≥ 36	COMPLIANT (Nat)
	SLIP CLASSIFICATION	DIN 51130		R10 (Nat) R11 (Rigato)
	SLIF CLASSIFICATION	DIN 51097	Depending -on workplace	A+B (Nat) A+B+C (Rigato)

Suggestion on how to use our products:

⇒ Classification of the floor tiles for wear resistance (as per General Catalogue):

- Natural and Rigato surface
- Krystal surface

"Contribute of Ceramica Sant'Agostino products to LEED certification points"

MATERIALS & RESOURCES (MR CREDITS)

Rev. 00 del 18/01/2022

Building Product Disclosure and Optimization – Environmental Product Declarations (EPD) ≻

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.

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⊳ Building Product Disclosure and Optimization - Sourcing for of Raw Materials

Porcelain Tiles of Ceramica Sant'Agostino are manufactured using pre-consumer recycled products. The percentage of these recycled materials is > 20% (Bureau Veritas certificate).

Construction and Demolition Waste Management \geq

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(2 points)

(1 point)

(1/2 point)

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SUSTAINABLE SITES (SS CREDITS)

Heat Island Reduction \geq

Large part of Ceramica Sant'agostino products in the lighter colors does not increase the temperature of the city areas compared to country areas (No heat island effect) because the solar reflectance SR (start value) is ≥ 0.33. These products are suitable for be used in outdoor areas.

ENERGY AND ATMOSPHERE (EA CREDITS)

Optimize Energy Performance ≻

In performance analysis tiles are part of the opaque elements of the packaging. The thermal conductivity λ of Ceramica Sant'Agostino products is **1.3 Watt/m K** (1.1 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. Ceramica Sant'Agostino products can be used on heated floors and for ventilated walls.

INDOOR ENVIRONMENTAL QUALITY (EQ CREDITS)

Low-Emitting Materials (No VOC) ۶

Ceramica SAnt'agostino products do not emit VOC (volatile Organic Compounds) because they contain inert materials that satisfy automatically the requirements

INNOVATION (IN CREDITS)

5 Innovation

Sant'Agostino products environmentally friendly due to the of harmful materials Ceramica are absence 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 to the information of this document.

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Porcelain Tiles 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/mqs of building

area).





(1 to 2 points)

(1 to 20 points depending on the scope)

(1 to 5 points)

(1 to 3 points)