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Technical Sheet

Series: GRAIN STONE

ANSI A137.1-2012 standards Porcelain tiles with low water absorption Class P1.

Technical feature	Standard Method	Requirements	Emilceramica Values
CALIBER RANGE - Rectified	ASTM C499	± 0.25% or 0.03 in (0.8 mm)[1]	± 0.20%
THICKNESS[2]		Range: ± 0.04 inch (1.02 mm)	COMPLIANT
WEDGING - Rectified	ASTM C502	± 0.25% or 0.03 in (0.8 mm)[1]	± 0.15%
WARPAGE EDGE - Rectified	ASTM C485	± 0.40% or 0.05 in (1.3 mm)[3] or 1.8 mm[4]	±0.25%
BREAKING STRENGTH	ASTM C648	Average ≥ 250 lbf. (1.11 kN)/ Individual ≥ 225 lbf. (1.00 kN)	COMPLIANT
WATER ABSORPTION	ASTM C373	≤ 0.50%	COMPLIANT
THERMAL SHOCK[5]	ASTM C484	PASS	PASS
RESISTANCE TO FREEZE/TAW CYCLING[6]	ASTM C1026	AS REPORTED	NO DAMAGE
VISIBLE ABRASION RESISTANCE[5]	ASTM C1027-99	AS REPORTED	• *Dark colors:* **II - III** • *Medium colors:* **IV** *Light colors:* **V**
CHEMICAL RESISTANCE	ASTM C650	*AS REPORTED*	NOT AFFECTED
STAIN RESISTANCE	ASTM C1378 CTI81-7D	AS REPORTED	NOT AFFECTED
WET DYNAMIC COEFFICIENT OF FRICTION	section 9.6	0.42[7]	> 0.42 ONLY NATURAL

***Fiorano Modenese**, 17/09/2018*

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[1] Whichever is less.
[2] May not apply to textured surfaces or tiles with uneven back patterns.
[3] Whichever is less, for tiles up to 24" x 24" (610 mm x 610 mm)
[4] Applies to tiles larger than 24" x 24" (610 mm x 610 mm)
[5] Glazed tile only.
[6] When installation subject to freeze/thaw conditions.
[7] For Level interior spaces expected to be walked upon when wet (see Section 6.2.2.1.10)