

TECHNICAL FEATURES

Collection: Diamante Collection Surface: Spazzolato	Brand: Francini FORTE
Size (cm): 162x324	Thickness (mm): 12

Technical Features	Testing Method	Meas. unit	Average Typical Values	Established limits
PHYSICAL PROPERTIES				
Water absorption	ISO 10545-3	(%)	≤ 0,5	Eb ≤ 0,5 (Individual maximum value 0,6%)
Water absorption	ASTM C373-14	(%)	≤ 0,5	≤ 0.50%
Color Uniformity (8)	ASTM C609 and Section 9.3		Compliant	V0 – 3 Judds
Modulus of rupture	ISO 10545-4	(N/mm ²)	≥ 35	R ≥35 (Individual minimum value 32 N/mm ²)
Breaking Strength	ISO 10545-4	(N)	≥ 1300	≥1300 (Thickness ≥7,5 mm) ≥700 (Thickness < 7,5 mm)
Breaking Strength	ASTM C648-04	(LBF)	COMPLIANT	Average ≥ 275 lbf (1.22 kN) Individual ≥ 250 lbf (1.11 kN)
Visible Abrasion Resistance	ASTM 1027		Dark Colors: IV Light Colors: V	Declared Value
Linear thermal expansion coefficient	ISO 10545-8	(x(10)-6/°C)	≤ 9	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Thermal shock resistance	ISO 10545-9		Complies with the standards	Declared value (EN 14411:2016) **** Test Method available (ISO 13006:2018)
Thermal Shock (5)	ASTM C484		Pass	Pass
Crazing Resistance	ISO 10545-11		Complies with the standards	Pass according to EN ISO 10545-1 (EN 14411:2016) Required (ISO 13006:2018)
Frost resistance	ISO 10545-12		Complies with the standards	Pass according to EN ISO 10545-1 (EN 14411:2016) Required (ISO 13006:2018)
Resistance to Freeze/ Taw Cycling	ASTM C1026		No damage	Declared Value
Color resistance to light exposure	DIN 51094		Complies with the standards	No sample must show noticeable colour modifications.
Bond Strength	ASTM C482		Compliant	≥ 50 psi (0.34 MPa)

(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" (610 mm) on any side

(4) Applies to tiles larger than 24" (610 mm) on any side

(5) Glazed tiles 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)

(8) Class V0 tile only

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CHEMICAL PROPERTIES				
Resistance to chemicals for household use and swimming pool salts	ISO 10545-13		A	GB Minimum (EN 14411:2016) GB Minimum (ISO 13006:2018)
Resistance to low concentrations of acids and alkalis	ISO 10545-13		LA	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Resistance to high concentrations of acids and alkalis	ISO 10545-13		HA	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Chemical Resistance	ASTM C650-04			Declared Value
Stain resistance	ISO 10545-14		Class 5	Minimum class 3 (EN 14411:2016) Minimum class 3 (ISO 13006:2018)
Stain resistance	ASTM C1378-04			Declared Value
ANTISLIPPERY PROPERTIES				
Dynamic coefficient of friction (DCOF)	ANSI 326.3:2021			Interior Dry (ID) $\geq 0,42$ dry, Interior Wet (IW) $\geq 0,42$ wet, Interior Wet+ (IW+): Declared Value, Exterior Wet (EW): Declared value

* The work size shall be chose, for non-modular tiles, so that the difference between the work size and the nominal size is:

** The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size..

**** See Table 2 for uses where it is applicable

c.c. Centre curvature, related to diagonal calculated from the work sizes

e.c. Edge curvature, related to the corresponding work sizes.

w. Warpage, related to diagonal calculated from the work sizes.

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