



CENTRO CERAMICO BOLOGNA

CENTRO DI RICERCA E SPERIMENTAZIONE PER L'INDUSTRIA CERAMICA

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TECHNICAL CHARACTERISTICS ACCORDING TO ANSI A 137.2 OF

Large format glass tiles various size, 8 mm thickness (2/7").

Vitrex spa

Note: transparent glass, decorated on the backside with glaze or precious metals or metallized on the surface.

Characteristics	Test method	Requirements ANSI A 137.2 - for glass tile only	Results ⁽¹⁾ (Average value)
Water absorption	ASTM C 373	$\leq 0,5 \%$	0,01 %
Breaking strength	ANSI C 648	Average Value > 337 lbf (1500 N)	808 PSI (3600 N)
Resistance to surface abrasion (PEI)	ASTM C 1027	As reported	Class 4
Linear Thermal exp. Coeff. $\times 10^{-6} \text{ K}^{-1}$	ASTM C 372	As reported	8,5 – 8,6
Thermal shock	ANSI A 137.2 - § 7.9	Required	Pass
Crazing resistance ⁽²⁾	ASTM C 424	Required	Pass
Resistance to freeze/thaw cycling	ASTM C 1026	Required	Pass
Bond strength ⁽³⁾	ASTM C 482	Dry $\geq 150 \text{ PSI}$ (1 N/mm ²) Wet $\geq 100 \text{ PSI}$ (0,7 N/mm ²)	Dry: 360 PSI (2,48 N/mm ²) Wet: 330 PSI (2,28 N/mm ²)
Chemical resistance	ASTM C 650	As reported	Pass
Stain resistance	ASTM C 1378	As reported	Cleanable
Dimensional regularity	ASTM C 499	Nominal size: $\pm 4 \%$ Caliber range: $\pm 1,5\%$ Range 0,12 in (3,05 mm)	Complies
Warpage edge	ASTM C 485	$\pm 1,50 \%$	Complies
Warpage Diagonal	ASTM C 485	$\pm 1,50 \%$	Complies
Wedging	ASTM C 485	$\pm 2,00 \%$	Complies
Static coefficient of friction (SCOF)	ASTM C 1028	As reported	More than 0,60 in dry and wet condition

(1) Test reports by **Centro Ceramico Bologna**

(2) Amended as set out in ANSI A 137.2 - § 5.2.3.2

(3) Bonding material: Adesilex P10 – Mapei.

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