



CENTRO CERAMICO BOLOGNA

CENTRO DI RICERCA E SPERIMENTAZIONE PER L'INDUSTRIA CERAMICA

VIA MARTELLI, 26 – 40138 **BOLOGNA** – TEL. 051/534015 – FAX 051/530085

TECHNICAL CHARACTERISTICS ACCORDING TO ANSI A 137.2
of mesh mounted **Miniature mosaic glass and marble tiles** 1,5 x 1,5 x 0,8 cm (5/8" x 5/8" x 2/7").
Stone & Glass Collection. Vitrex spa

Note: the sheets are blended with varying glass tile types and colors and with natural stone or marble tiles (decorated travertine and marble). The same tests were carried out (when applicable) both for glass tiles than for the travertine and marble tiles to have a complete picture of the performance of a sheet.

Characteristics	Test method	Requirements ANSI A 137.2 - for glass tile only	Results ⁽¹⁾ (Average value)	
			Glass	Marble
Water absorption	ASTM C 373	≤ 0,5 %	0,01 %	From 0,1 to 0,4%
Compressive strength	ANSI A 137.2 - § 7.8	Average Value > 2500 PSI (17,24 N/mm ²)	9013 PSI (62,22 N/mm ²)	5713 PSI (39,44 N/mm ²)
Resistance to surface abrasion (PEI)	ASTM C 1027	As reported	Class 3	
Linear Thermal exp. Coeff. x 10 ⁻⁶ K ⁻¹	ASTM C 372	As reported	8,2 – 8,3	3,5 – 3,6
Thermal shock	ANSI A 137.2 - § 7.9	Required	Pass	Pass
Crazing resistance ⁽²⁾	ASTM C 424	Required	Pass	Pass
Resistance to freeze/thaw cycling	ASTM C 1026	Required	Pass	Pass
Bond strength ⁽⁴⁾	ASTM C 482/ANSI A 137.2 § 7.7	Dry ≥ 150 PSI (1 N) Wet ≥ 100 PSI (0,7 N)	320 PSI (2,21 N/mm ²) 303 PSI (2,09 N/mm ²)	375 PSI (2,59 N/mm ²) 347 PSI (2,40 N/mm ²)
Chemical resistance	ASTM C 650	As reported	Pass	Pass ⁽³⁾
Stain resistance	ASTM C 1378	As reported	Cleanable	Cleanable
Dimensional regularity	ASTM C 499	Nominal size: + 10% Caliber range: + 5% Thickness range: 0,30in (0,76 mm)	Complies	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) Slight variation of the surface of natural stone with acid solutions

(4) Bonding material: Adesilex P10 – Mapei.



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Centro Ceramico Bologna, on the basis of the accreditations received, is the official test laboratory specified for procedures for the granting of national and international quality marks for ceramic materials.