

**TCNA TEST REPORT NUMBER:** TCNA-0895-15 (Rev. 2) **PAGE:** 1 OF 3

**TEST REQUESTED BY:** Betsan Mosaix

**TEST METHOD:** ANSI A137.2-2012 Section 7.7: "Shear Bond Strength of Glass Tile"

Informal Test Method Description: This test method determines the bond strength of a glass tile or a mounted glass tile assembly to a standardized latex portland cement mortar. This test method consists of installing glass tile or mounted glass tile assemblies under controlled conditions with a specified setting system and grout to a concrete block. After proper cure and submersion of the test assembly, a load is applied to one edge of the tile or tile array and increased at a definite rate until the bond between the tile and bond coat is broken.

This summary is provided for the reader's convenience and is not a complete description of the method. See ANSI A137.2 Section 7.7 for all method details and information.

**TEST SUBJECT MATERIAL:** Identified by client as: "**Betsan Mosaix**"  
 Approximate Size as Received: 1"x1" on mosaic sheets

**TEST DATE:** 11/13/2014

**TEST PROCEDURE NOTES:**

- Sample prep: The shear bond specimens were created according to procedure in A137.2 section 7.7. The specimens were bonded with Mapei Adesilex-P10 Premium Glass Tile Mortar mixed with Mapei Keraply Latex Additive for Tile Mortar using a 1/8" x 1/8" square-notched trowel. The samples cured for 24 hours and then grouted with Mapei Ultra Color Plus FA per client's request.
- Four shear specimens were allowed to cure for 28 days at room temperature and four shear specimens were allowed to cure for 21 days at room temperature then submerged in water for 7 days.
- All specimens were loaded in shear at a rate of 200 psi/min.

**TEST RESULTS:**

	28 day dry shear strength (psi)	21 day dry, 7 day submerged shear strength (psi)
Specimen 1	71	77
Specimen 2	107	114
Specimen 3	129	92
Specimen 4	118	127
Average	106	102

**COMMENTS:** All the specimens exhibited partial adhesive failure between the tile and thin-set and partial cohesive failure within the thin-set.



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**TEST REQUESTED BY:** Betsan Mosaix

**TEST SUBJECT MATERIAL:** Identified by client as: “Betsan Mosaix”

**TEST METHOD:** ANSI A137.2-2012 Section 7.7: “Shear Bond Strength of Glass Tile”

**ANSI SPECIFICATIONS\*:**

ANSI standard	Tile Type	Specification
ANSI A137.2 (Glass Tile)	Large Format Glass Tile	28-Day Dry: Minimum 150 PSI (1.0 N/mm <sup>2</sup> ) 21-Day Dry + 7-Day Submerged: Minimum 100 PSI (0.7 N/mm <sup>2</sup> )
ANSI A137.2 (Glass Tile)	Mosaic Glass Tile	28-Day Dry: Minimum 150 PSI (1.0 N/mm <sup>2</sup> ) 21-Day Dry + 7-Day Submerged: Minimum 100 PSI (0.7 N/mm <sup>2</sup> )
ANSI A137.2 (Glass Tile)	Miniature Mosaic Glass Tile	28-Day Dry: Minimum 150 PSI (1.0 N/mm <sup>2</sup> ) 21-Day Dry + 7-Day Submerged: Minimum 100 PSI (0.7 N/mm <sup>2</sup> )

\*For more detailed information, refer to ANSI A137.2 Specifications for Glass Tile

**IMAGE OF PRODUCT TESTED:**



**Report Revision Log:**

Revision #	Date Issued	Pages	Revision
0	11/13/18	3	Original Report Issue
1	7/16/20	3	Revision to add the company name
1	7/17/20	3	Revision to the company name



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7/17/2020

