



January 9, 2024

The Tile Shop  
Attn: Wayne Druckenmiller  
8515 Brown Street  
Ottawa Lake, Michigan 49267  
USA

Dear Wayne Druckenmiller,

International Performance Assurance Laboratories has tested the samples you submitted. Test report IPAL-0687-23 is enclosed. If you have any questions or concerns, please contact us.

Best Regards,

INTERNATIONAL PERFORMANCE ASSURANCE LABORATORIES,

Damon McDowell  
Laboratory Supervisor  
Enclosures



**IPAL TEST REPORT NUMBER:** IPAL-0687-23 **PAGE:** 1 OF 3

**TEST REQUESTED BY:** The Tile Shop

**TEST METHOD:** ANSI A118.15 Specifications for Improved Modified Dry-Set Cement Mortar

This specification describes test methods and minimum requirements for improved modified cement mortars.

**TEST SUBJECT MATERIAL:** Identified by client as: “Pro-Bond LFT”

**TEST DATE:** 10/31/2023 – 12/27/2023

**TEST PROCEDURE NOTES:**

- Sample prep: The mortar was mixed at a liquid to powder ratio of 26.08:100 parts by weight per the client’s instruction.
- All samples were set up and cured according to ANSI A118.15.

**TEST RESULTS:**

Test Designation	Test Description	Evaluation	ANSI Specification
5.3	Open Time 20 min at 28 days	200 PSI	≥ 75 psi (0.5MPa)
	Extended Open Time (optional) 30 min at 28 days	67 PSI	≥75 psi (0.5MPa)
6.0	Sag (optional - non-sagging mortars only)	0.01 in.	≤ 0.02 in. (0.5mm)
<b>Glazed Wall Tile Shear Bonds</b>			
7.1.2	7-day shears	501 PSI	> 450 PSI (3.10 MPa)
7.1.3	7-day water immersion shears	340 PSI	> 250 PSI (1.72 MPa)
7.1.4	28-day heat aging shears	743 PSI	> 450 PSI (3.10 MPa)
<b>Porcelain Mosaic Shear Bonds</b>			
7.2.2	1-day shears	294 PSI	> 100 psi (0.69 MPa)
7.2.3	7-day shears	496 PSI	> 300 PSI (2.07 MPa)
7.2.4	7-day water immersion shears	260 PSI	> 200 PSI (1.38 MPa)
7.2.5	28-day shears	683 PSI	> 400 PSI (2.76 MPa)
7.2.6	28-day with freeze/thaw cycling shears	304 PSI	> 250 PSI (1.72 MPa)
7.2.7	28-day heat aging shears	508 PSI	> 400 PSI (2.76 MPa)
<b>Quarry Tile Shear Bonds</b>			
7.3.2	28-day shears	399 PSI	> 150 PSI (1.03 MPa)
7.3.3	28-day with freeze/thaw cycling shears	218 PSI	> 100 PSI (0.69 MPa)

**COMMENTS:** None



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**IMAGE OF PRODUCT TESTED:**





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1/9/2024

Damon McDowell  
Laboratory Supervisor

