



International Product Assurance  
**LABORATORIES**

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May 19, 2025

MSI  
Attn: Andrew Ceja  
2095 N Batavia St  
Orange, CA 92865  
USA

Dear Andrew Ceja,

International Product Assurance Laboratories has tested the samples you submitted. Test report IPAL-0239-25 is enclosed. If you have any questions or concerns, please contact us.

Best Regards,

INTERNATIONAL PRODUCT ASSURANCE LABORATORIES,

A handwritten signature in black ink that reads 'Damon McDowell'.

Damon McDowell  
Laboratory Supervisor  
Enclosures



**IPAL TEST REPORT NUMBER:**

**IPAL-0239-25**

**PAGE: 1 OF 3**

**TEST REQUESTED BY:**

**MSI**

**TEST METHOD:** **ASTM C1027-19: “Standard Test Method for Determining Visible Abrasion Resistance of Glazed Ceramic Tile”**

**Informal Test Method Description:** This test method is designed to measure the resistance of tile surfaces to visible surface abrasion. Certain irregular surfaces may not be evaluated properly by this test method because of wear patterns. The abrasion resistance of tile surfaces is determined by rotation of an abrasive load on the surface and the assessment of the resultant wear by means of visual comparison of the abraded test specimens and non-abraded tiles.

This summary is provided for the reader's convenience and is not a complete description of the method. See ASTM C1027 for all method details and information.

**TEST SUBJECT MATERIAL:**

Identified by client as: “Elbe”

Approximate Size as Received: 4" x 4"

Product color: Not provided

**TEST DATE:**

**5/15/25 - 5/16/25**

**TEST PROCEDURE NOTES:**

- Sample prep: None
- A Gabbrielli Abrasimeter ISO was used to abrade the tile.
- 10% Hydrochloric acid was used to remove any metal oxide staining.

**TEST RESULTS:**

There was apparent visual difference in gloss or color after **6000** revolutions when viewed in the viewing box by more than one technician.

**COMMENTS:** None

**IPAL TEST REPORT NUMBER:****IPAL-0239-25****PAGE: 2 OF 3****TEST REQUESTED BY:****MSI****TEST SUBJECT MATERIAL:**

Identified by client as: "Elbe"

**TEST METHOD:** **ASTM C1027-19: "Standard Test Method for Determining Visible Abrasion Resistance of Glazed Ceramic Tile"****ANSI SPECIFICATIONS\*:**

<b>ANSI standard</b>	<b>Tile Type</b>	<b>Specification</b>
ANSI A 137.1 (Ceramic Tile)	Pressed Floor Tile	No requirement
ANSI A 137.1 (Ceramic Tile)	Porcelain Tile	No requirement
ANSI A 137.1 (Ceramic Tile)	Glazed Wall Tile	No requirement
ANSI A 137.2 (Glass Tile)	All Glass Tile	No requirement

*\*For more detailed information, refer to ANSI A137.1 Specifications for Ceramic Tile and ANSI A137.2 Specifications for Glass Tile*

**IMAGE OF PRODUCT TESTED:**



**IPAL TEST REPORT NUMBER:**

**IPAL-0239-25**

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5/19/2025

Damon McDowell  
Laboratory Supervisor