

## TEST REPORT

DATE: 09-25-2025

Page 1 of 1

TEST NUMBER: 0322489

CLIENT	MS International, Inc. - CA
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TEST METHOD CONDUCTED	ASTM C1243 Standard Test Method for Relative Resistance to Deep Abrasive Wear of Unglazed Ceramic Tile by Rotating Disc
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Architecta Collection
COLOR	Greige
CONSTRUCTION	Porcelain Tile

### PURPOSE

This test method measures the deep abrasive wear of unglazed ceramic tile by quantifying loss of volume under controlled abrasion. It's intended to assess durability (resistance to wear), rather than surface appearance.

### TEST SPECIMENS & SAMPLING

Use whole tiles or suitably sized specimens fixed (e.g. with adhesive) to a backing or larger substrate, avoiding joints when possible.

A minimum of five tiles (or test specimens) should be tested to obtain representative data. Tiles must show no visible warpage, verified (for example with a straightedge), before testing.

### PROCEDURE

1. Mount specimen so its face is tangentially in contact with the rotating disc.
2. Feed abrasive uniformly with the specified rate (100 g  $\pm$  10 g per 100 revolutions) into the grinding zone.
3. Rotate disc for 150 revolutions under calibrated pressure.
4. After test, measure the chord length (wear scar) produced on the specimen. The chord is the linear distance across the worn region.
5. From chord(s) and specimen geometry, calculate the volume loss. The test yields relative resistance values (i.e. how much volume was worn away).
6. Compare results across specimens or against reference materials.

	CHORD LENGTH	VOLUME LOSS
SPECIMEN 1	22.5 mm	96 mm <sup>3</sup>
SPECIMEN 2	23.0 mm	102 mm <sup>3</sup>
SPECIMEN 3	22.5 mm	96 mm <sup>3</sup>
SPECIMEN 4	23.5 mm	109 mm <sup>3</sup>
SPECIMEN 5	23.0 mm	102 mm <sup>3</sup>
<b>AVERAGE VOLUME (mm<sup>3</sup>)</b>		101 mm <sup>3</sup>

### COMMENTS:

Volume values are from Table 1 of the test method.

APPROVED BY: Brandon Stokes

Lab Director -

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