International Product Assurance LABORATORIES

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www.IPALaboratories.com

October 20, 2025

Arto Brick
Attn: Julie Grajeda
15209 S Broadway
Gardena, CA 90248
USA

Dear Julie Grajeda,

International Product Assurance Laboratories has tested the samples you submitted. Test report IPAL-0531-25 is enclosed. If you have any questions or concerns, please contact us.

Best Regards,

INTERNATIONAL PRODUCT ASSURANCE LABORATORIES,

Damon McDowell
Laboratory Supervisor
Enclosures

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IPAL TEST REPORT NUMBER: **IPAL-0531-25**

TEST REQUESTED BY: **Arto Brick**

TEST METHOD: **ASTM C880: "Flexural Strength of Dimension Stone"**

Informal Test Method Description: This test method covers the procedure for determining the flexural strength of stone by use of a simple beam using quarter-point loading. This test method is useful in indicating the differences in flexural strength between the various dimension stones. See ASTM C880 for all method details and information.

TEST SUBJECT MATERIAL: Identified by client as: **"Arto Concrete Tile - 8x8 Artillo Early Gray Standard"**
Approximate Size as Received: 10" x 10" x 0.70"

TEST DATE: 10/13/2025 – 10/15/2025

TEST PROCEDURE NOTES:

- Sample prep: Samples were cut to 4" x 10" x 0.70 per the standard.
- Five of ten specimens were dried in an oven for 48 hours. The remaining five were submerged in water for 48 hours.
- All ten specimens were broken by a four point load on an Instron universal tester with a load rate of 600 psi/min and a span of 12.5 inches.

TEST RESULTS:

Dry Condition	Length (in)	Width (in)	Thickness (in)	Flexural Strength (psi)
Specimen 1	9.76	4.04	0.70	531
Specimen 2	9.74	4.05	0.70	614
Specimen 3	9.72	4.04	0.72	719
Specimen 4	9.77	4.04	0.70	538
Specimen 5	9.75	4.02	0.70	751
			Average	631
			Standard Deviation	102
Wet Condition				Flexural Strength (psi)
Specimen 1	9.75	4.05	0.72	308
Specimen 2	9.71	4.05	0.73	305
Specimen 3	9.75	4.03	0.72	363
Specimen 4	9.70	4.05	0.70	270
Specimen 5	9.76	4.03	0.71	323
			Average	314
			Standard Deviation	34

COMMENTS: None

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TEST SUBJECT MATERIAL: Identified by client as: **"Arto Concrete Tile-8x8 Artillo Early Gray Standard"**

TEST METHOD: **ASTM C880: "Flexural Strength of Dimension Stone"**

ASTM SPECIFICATIONS*:

ASTM standard	Stone Type	Specification
ASTM C503	Marble (Calcite or Dolomite)	Minimum 1000 psi
ASTM C1527	Travertine (Interior or Exterior)	Minimum 500 psi
ASTM C568	Limestone (Low Density)	No Requirement
ASTM C568	Limestone (Medium Density)	No Requirement
ASTM C568	Limestone (High Density)	No Requirement
ASTM C615	Granite	Minimum 1200 psi
ASTM C616	Quartz (Sandstone)	No Requirement
ASTM C616	Quartz (Quartzitic Sandstone)	No Requirement
ASTM C616	Quartz (Quartzite)	No Requirement

**For more detailed information, refer to ASTM C503 Specification for Marble Dimension Stone, ASTM C1527 Specification for Travertine Dimension Stone, ASTM C568 Specification for Limestone Dimension Stone, ASTM C616 Specification for Quartz-Based Dimension Stone and ASTM C615 Specification for Granite Dimension Stone*

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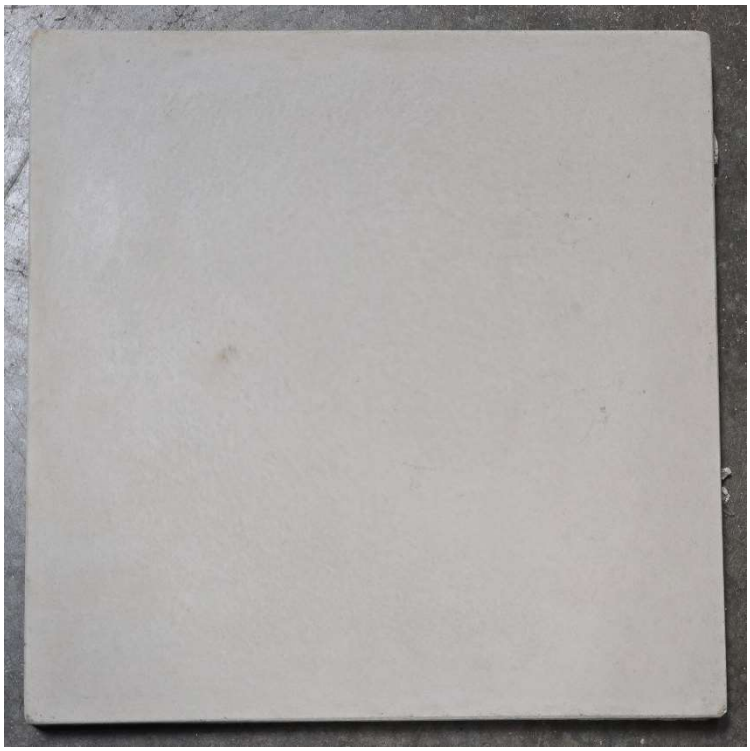
IMAGE OF PRODUCT TESTED:



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Damon McDowell
Laboratory Supervisor

10/20/2025

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