NATIONAL CONCRETE MASONRY ASSOCIATION
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**ASTM C666/C666M-15 Test Report**
**Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing**

Job No.: 18-286B
Report Date: 7/6/2018

Client: AHI Supply
Address: 2800 N. Gordon St.
Alvin, TX 77511

Testing Agency: National Concrete Masonry Association
Research and Development Laboratory
Address: 13750 Sunrise Valley Drive
Herndon, VA 20171-4662

Project Identification: C31552

Unit Specification: ASTM C1364-17

Sampling Party: Cast Stone Institute

Unit Designation/Description:
Architectural Cast Stone

Mark: ' 5" x 18" x 18" '

Date Samples Received: 3/2/2018
Date of Casting: 2/19/2018

Date Testing Began: 4/20/2018

Age of Specimen at Start of Testing: 60 days

Test Specimen Dimensions: 3 x 4 x 16 in.
Specimen Sample Location: Bottom molded horizontal surface of the test sample

The client delivered one 5 x 18 x 18 inch sample piece of architectural cast stone for testing. (3) - 3 x 4 x 16 inch freeze-thaw durability specimens were extracted for testing. Speciments were tested in accordance with Procedure A, outlined in ASTM C666/C666M-15. Reported values of cumulative percent weight loss are provided as modified by ASTM C1364-17.

**Test Media: WATER**

| Unit No. | Received Weight, (g) | Calculated Oven-Dry Initial Wt. (g) |
|---|---|---|
| 1c | 6539.9 | 6285.9 |
| 2c | 6655.1 | 6391.4 |
| 3c | 6418.3 | 6184.9 |

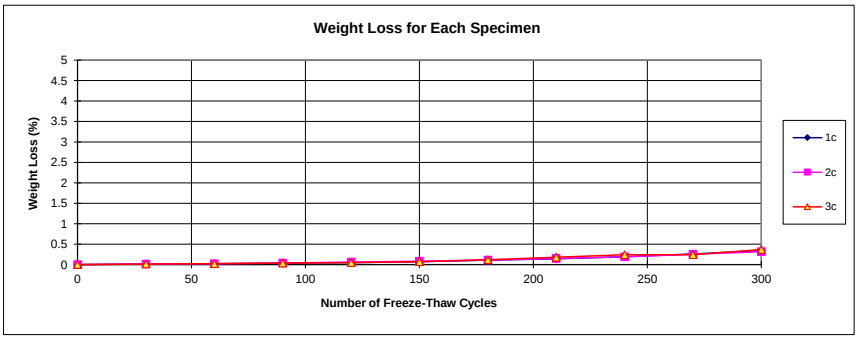
Note: Initial weight calculated as sum of final oven-dry weight of specimen plus oven-dry weight of all collected residue.

Accumulative Residue Weight (g)

| Unit No. | Cycle No.: | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1c | | 0.0 | 0.9 | 1.4 | 2.3 | 3.1 | 4.6 | 6.9 | 8.9 | 12.1 | 16.3 | 21.6 |
| 2c | | 0.0 | 0.8 | 1.6 | 2.6 | 3.9 | 5.3 | 7.0 | 9.5 | 12.1 | 16.2 | 20.1 |
| 3c | | 0.0 | 1.0 | 1.5 | 2.1 | 3.1 | 4.4 | 7.5 | 11.2 | 14.9 | 15.1 | 22.9 |

Cumulative Percent Mass Loss (%)

| Unit No. | Cycle No.: | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1c | | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 |
| 2c | | 0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 |
| 3c | | 0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.4 |




Comments: 1) These units comply with freeze thaw durability requirement of ASTM C1364-17 for architectural cast stone. That criterion requires that the cumulative percent mass loss (CPWL) is less that 5% after 300 cycles of freezing and thawing.

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