

**ASTM C1262-16 Test Report
Freeze-Thaw Durability**

Job No.: 18-231B
Report Date: 5/17/2018

Client: Reading Rock, Inc.
Address: 4600 Devitt Drive
Cincinnati, OH 45246

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

Project Identification: 63581

Unit Specification: ASTM C1364-17

Sampling Party: Cast Stone Institute

Unit Designation/Description:
Architectural Cast Stone

Date Samples Received: 1/24/2018
Date of Casting: 1/14/2018

Mark: 'Crystal White HT'

Date Testing Began: 2/23/2018
Age of Specimen
at Start of Testing: 40 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. Specimens were tested in accordance with Procedure A, outlined in ASTM C666/C666-15. Reported values of cumulative percent weight loss are provided as modified by ASTM C1364-17.

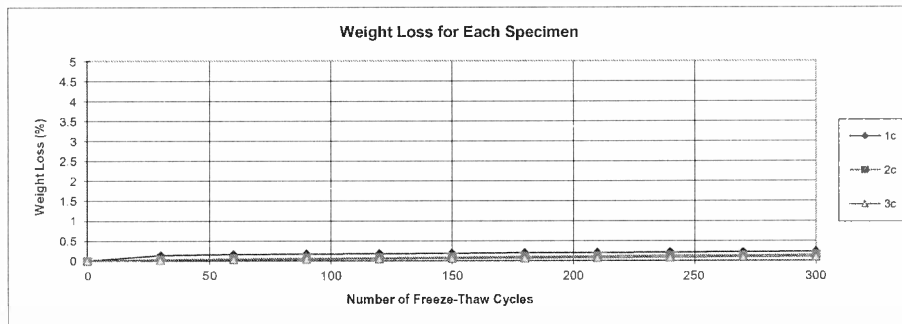
Test Media: WATER

Unit No.	Received Weight, (g)	Calculated Oven-Dry Initial Wt. (g)
1c	6776.8	6590.8
2c	6845.6	6662.1
3c	6926.4	6740.3


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


Unit No.	Cycle No.:	Accumulative Residue Weight (g)										
		0	30	60	90	120	150	180	210	240	270	300
1c		0.0	9.2	10.7	11.2	12.0	12.6	13.0	13.5	14.0	14.4	14.8
2c		0.0	2.1	3.5	4.4	5.1	6.0	7.1	7.7	8.4	8.9	9.7
3c		0.0	1.0	2.3	2.8	3.4	3.9	4.6	4.9	5.6	6.1	6.5

Unit No.	Cycle No.:	Cumulative Percent Mass Loss (%)										
		0	30	60	90	120	150	180	210	240	270	300
1c		0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2c		0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3c		0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1



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 than 5% after 300 cycles of freezing and thawing.


Douglas H. Ross
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