



Project Number: SSWLX 22001

Report Date: February 1, 2023

Client: Stafford Stone Works LLC
 Address: Jesse Hawthorne
PO Box 698
Fredericksburg, VA 22404

Project Name: Stafford Stone Works LLC Lab Tests

Date Received: January 10, 2023

Unit Specification: ASTM C1364

Laboratory Number: 10- 202249

Unit Designation and
 Description: Architectural Cast Stone
Mix #124

Summary of Test Results

ASTM C1194 - Compressive Strength of Architectural Cast Stone

ASTM C1195 - Absorption of Architectural Cast Stone

Specimen Cast Date: 12/19/2022

Specimen Cast Date: 12/19/2022

Date of Compression Testing: 1/25/2023

Test Method: A, Cold Water Test

Age when Tested: 37 days

Individual Unit Test Results

Specimen No.	Absorption	Specification
	%	
1	5.5	6 % (max.)
2	5.5	
3	5.1	
Average	5.3	

Specimen No.	Compressive Strength		Specification
	lbs	psi(gross)	
4	28658	7160	6500 psi (min.)
5	37306	8700	
6	34594	8270	
Average	33519	8040	

Specimen No.	Density (lb/ft ³)	
	SSD	Oven Dry
4	132.6	125.7
5	132.7	125.8
6	133.8	127.4
Average	133.0	126.3

Specimen No.	Dimensions (in)		
	Length	Width	Height
1	2.05	2.12	1.94
2	2.02	2.11	1.98
3	2.03	2.02	2.00
4	2.05	1.95	2.09
5	2.03	2.11	2.00
6	2.05	2.04	1.96

Specimen No.	Absorption Weights (g)	
	Oven Dry	SSD-Cold Wtr
1	278.70	294.00
2	279.35	294.63
3	274.76	288.72

Remarks: The above samples were tested according to ASTM C1194 and C1195. This set meets the compressive strength and absorption requirements of ASTM C1364.

Shannon A. Williams, PE
 Laboratory Manager



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Unit Specification: ASTM C666 Procedure A, as modified by
Section 5.5 of ASTM C1364.

Laboratory No.: 10- 202249

Specimen Information

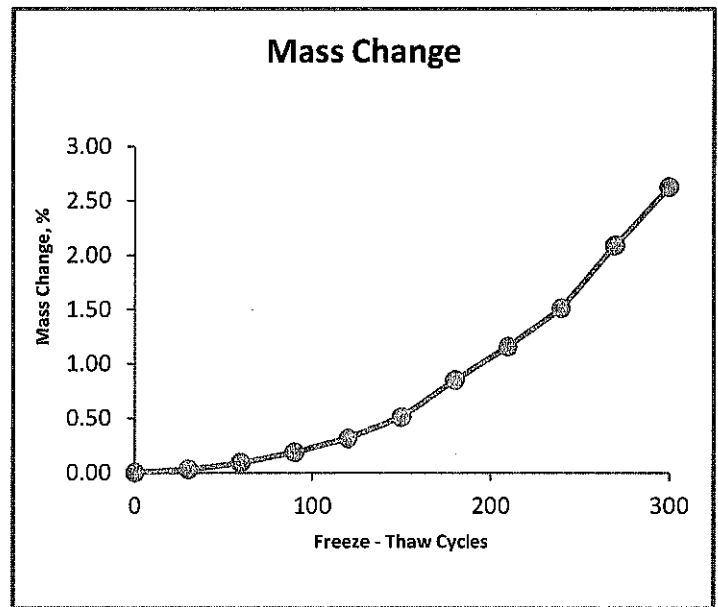
Sample ID: 12/16 F/T Test

Specimen Cast Date: December 16, 2022

Summary of Test Results

Freeze-Thaw Cycles	Mass Change (%)
0	0.0
30	0.0
60	0.1
90	0.2
120	0.3
150	0.5
180	0.9
210	1.2
240	1.5
270	2.1
300	2.6

Values are the Average of Three Samples.



Remarks: One slab of cast stone was reduced to one set of three beams with nominal dimensions of 3" x 4" x 16". This set
meets the requirement of 5% maximum mass loss after 300 freeze-thaw cycles.
Photographs of the samples after completion of the tests are attached.



Chas M. Snyder, PE