

PENNONI ASSOCIATES INC.

Client:

Address:

Project Number: SSWLX 22001

Report Date: February 1, 2023

Project Name: Stafford Stone Works LLC Lab Tests

Date Received: January 10, 2023

Laboratory Number: 10- 202249

PO Box 698 Fredericksburg, VA 22404

Stafford Stone Works LLC

Unit Specification: ASTM C1364

Jesse Hawthorne

Unit Designation and

Description: Architectural Cast Stone

Mix #124

Summary of Test Results

ASTM C1194 - Compressive Strength of Architectural Cast Stone

Specimen Cast Date: 12/19/2022

Date of Compression Testing: 1/25/2023

Age when Tested: 37 days

Individual Unit Test Results

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

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	

Dimensions (in)							
Specimen No.	men No. Length Width Height						
1	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.

Williams Shannon A. Williams, PE

Laboratory Manager



ASTM C1195 - Absorption of Architectural Cast Stone

Specimen Cast Date: 12/19/2022

Test Method: A, Cold Water Test

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

Pe	nnoni		Project No.: SSWLX 22001		
· · · · · · · · · · · · · · · · · · ·	ASSOCIATES INC.		Report Date: April 24, 2023		
Client:	Stafford Stone Works LLC	Project Name:	Stafford Stone Works LLC Lab Tests		
PENNONI CONSULT Client: Address: Unit	Jesse Hawthorne	_			
	PO Box 698		Date Received: January 10, 2023		
	Fredericksburg, VA 22404				
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 (%)		Mass Change			
0	0.0					
30	0.0					
60	0.1	3.0	ן טנ			
90	0.2	2.5	50 -			AD .
120	0.3	°, %				and the second se
150	0.5	ື້ ຊື່ 2.0	00 -			200
180	0.9	Wass Change, %			at	de la companya de la
210	1.2	Mas			C. Marter Trans Con	
240	1.5	1.0	00 -		ST RESERVED TO	
270	2.1			<i></i>	Statistics O	
300	2.6	0.5		Contraction of the second	Ø	
Values are the Average of Three Samples.		0.0	0 0	100	200	
				Freeze - Th		

 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.

Charll Sayder

Chas M. Snyder, PE

www.pennoni.com

