

**ASTM C1194/C1195 Test Report  
Sampling and Testing Architectural Cast Stone**

Job No.: 20-119-2R  
Report Date: 2/10/2020  
Revision Date: 2/18/2020

Client: GCP Applied Technologies  
Address: 62 Whittemore Avenue  
Cambridge, MA 02140

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

Project Identification: #570

Unit Specification: ASTM C1364-18

Sampling Party: Builders Cast Stone (Fort Worth, TX)

Date Samples Received: 1/16/2020

Unit Designation/Description:  
12 x 16 x 4 inch Architectural Cast Stone  
Mark: 'OPTEC Paver Enhancer'

Date of Casting: 1/9/2020

**Summary of Test Results:**

<u>Physical Property</u>	<u>Tested Values</u>	<u>ASTM C1364-18 Required Values</u>
Compressive Strength:	9560 psi	6500 psi minimum
Cold Water Absorption:	4.9 %	6.0 % maximum

The client delivered one 12 x 16 x 4 inch sample piece of architectural cast stone for testing. The following test specimen were cut from the submitted sample: (3) - 2 x 2 x 2 inch specimens were tested for absorption and (3) - 2 x 2 x 2 inch specimens were tested for compression. The results of these tests are summarized above, with individual results listed below.

**Absorption Specimens**

\*Absorption values are determined in accordance with *Method A (Cold Water Test)* as outlined in ASTM C1195-19.

Age of Specimen at Start of Testing: 27 days	Avg Width in.	Avg Height in.	Avg Length in.	Received Wt, W <sub>R</sub> g	Saturated Surface-Dry Wt, W <sub>S</sub> g	Oven-Dry Wt, W <sub>D</sub> g	Absorption %	
Unit #1a	1.96	1.98	1.97	265.8	267.9	255.5	4.9	
Date Tested: 2/5/2020	Unit #2a	1.99	1.97	1.98	271.7	274.0	261.1	4.9
to 2/7/2020	Unit #3a	1.97	1.98	1.98	271.0	273.3	260.7	4.8
Average	1.97	1.98	1.98	269.5	271.7	259.1	4.9	

**Compression Specimens**

\*Compressive strength values are determined in accordance with ASTM C1194-19.

Age of Specimen: 28 days	Avg Width in.	Avg Height in.	Avg Length in.	Received Wt, W <sub>R</sub> g	Maximum Compressive Load lb	Tested Compressive Strength psi	
Unit #1b	2.03	1.97	1.97	275.4	39740	9930	
Unit #2b	2.02	1.97	1.96	274.2	38790	9790	
Unit #3b	2.01	2.00	2.02	272.9	36330	8960	
Date Tested: 2/6/2020	Average	2.02	1.98	1.98	274.2	38290	9560

Comments: 1) Revised to correct compressive strength value.