



Concrete Masonry & Hardscapes Association
 13750 Sunrise Valley Drive
 Herndon, VA 20171
 703.713.1900
 MasonryAndHardscapes.org

ASTM C140/C140M-25 Test Report
Sampling and Testing Concrete Masonry Units and Related Units

CMHA Project Number: 25-302-2A
 Report Date: 11/17/2025

Client: Cambridge Pavingstones
 Address: PO Box 157
 Lyndhurst, NJ 07071

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

Unit Specification: ASTM C1372-24

Sampling Party: Cambridge Pavingstones

Unit Designation/Description:
 SRW Unit
 Mark: Sigma 8" SRW - Sahara Chestnut Lite

Date Manufactured: April 2025
 Date Samples Received: 8/11/2025

Summary of Test Results:

Physical Property	Tested	Required
	Values	Values
Net Compressive Strength:	5160 psi	3000 psi minimum
Density:	140.7 pcf	----
Absorption:	6.0 pcf	13 pcf maximum
Absorption:	4.3 %	----
Variation from Specified Dimensions:	0.04 in.	0.125 in. maximum

The client delivered five full-size units to the laboratory. From each unit, a nominal 2 x 4 x 8 in. coupon was saw-cut from the rear face of the unit for compression testing. Also, an additional segment was taken from the unit for absorption testing in accordance with ASTM C140/C140M-25. The results of these tests are summarized above, with individual results listed below.

Measurements of Full-Size Units

	Estimated	Avg	Length	Length	Rec'd	Specified Dimensions	
	Width*	Height	Front	Rear	Weight		
	in.	in.	in.	in.	lb	Width, in.	
Unit #1	12.05	8.00	18.00	8.52	70.77	Height, in.	
Unit #2	12.10	8.02	18.00	8.52	70.38	Length Front, in.	
Unit #3	12.12	8.01	18.00	8.54	71.55	Length Rear, in.	
Unit #4	12.03	8.02	18.00	8.54	71.67	Calculation of variation from specified	
Unit #5	12.11	8.03	18.00	8.53	72.21	dimensions does not include width	
Date Tested	Average	12.08	8.02	18.00	8.53	71.31	because of split surface.
8/23/2025							

*The width dimension of this unit includes a split surface. Therefore, this dimension is an estimated average rather than an average calculated from measured dimensions.


Compression Specimens

	Avg	Avg	Avg	Coupon	Maximum	Tested	
	Width	Height	Length	Weight	Compressive	Compressive	
	in.	in.	in.	lb	Load	Strength	
	in.	in.	in.	lb	lb	psi	
Unit #1a	1.99	3.99	7.99	4.99	76260	4800	
Unit #2a	1.98	4.00	7.98	5.05	81800	5170	
Unit #3a	2.01	3.99	7.97	5.04	77430	4840	
Unit #4a	2.01	3.98	7.99	5.19	91540	5700	
Unit #5a	1.99	3.99	7.98	5.05	84010	5280	
Date Tested	Average	2.00	3.99	7.98	5.06	82210	5160
8/26/2025							

Absorption Specimens

Approximate Specimen Size 3 x 8 x 18 in.

	Received	Saturated		Oven-Dry	Absorption	Absorption	Density	
	Wt, W _R	Immersed	Surface-Dry	Wt, W _D				
	lb	Wt, W _I	Wt, W _S	lb				
	lb	lb	lb	lb	pcf	%	pcf	
Unit #1b	37.54	22.38	38.96	37.36	6.0	4.3	140.6	
Unit #2b	36.98	22.03	38.52	36.82	6.4	4.6	139.3	
Unit #3b	38.08	22.55	39.24	37.70	5.8	4.1	141.0	
Unit #4b	37.78	22.40	38.90	37.42	5.6	4.0	141.5	
Unit #5b	38.52	22.93	39.82	38.14	6.2	4.4	140.9	
Date Tested	Average	37.78	22.46	39.09	37.49	6.0	4.3	140.7
8/28/2025								
to								
9/3/2025								


 Nicholas R. Lang
 Vice President of Engineering, Masonry



Representative Test Specimen