

Client: Cambridge Pavers, Inc.  
Address: PO Box 157  
Lyndhurst, NJ 07071

Project Name: Cambridge Wallstone Concrete Lab Tests

Date Received: August 3, 2016

Date of Compression Testing: August 16, 2016

Unit Specification: ASTM C1372

Laboratory Number: 10- 142183

Unit Designation and Description: Segmental Retaining Wall Unit  
Ledgestone

**Summary of Test Results**

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	<b>3840</b> <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		<b>3740</b> <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		<b>125.5</b> <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	<b>8.6</b> <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid		<b>98.1</b> %	Normalized Web Area		<i>in.<sup>2</sup>/ft.<sup>2</sup></i>
Net Cross-Sectional Area		<b>15.70</b> <i>in.<sup>2</sup></i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area		<b>16.12</b> <i>in.<sup>2</sup></i>	Moisture Content		%

**Individual Unit Test Results**

**Tests conducted on reduced size units.**

Specimen No.	Received Wt, W <sub>R</sub> <i>lb.</i>	Cross-Sectional Area		Max. Load <i>lb</i>	Compressive Strength	
		Gross <i>in.<sup>2</sup></i>	Net* <i>in.<sup>2</sup></i>		Gross <i>psi</i>	Net <i>psi</i>
4		16.09	15.71	60525	3760	3850
5		16.11	15.69	63355	3930	4030
6		16.16	15.69	57370	3550	3650
<b>Average</b>		<b>16.12</b>	<b>15.70</b>	<b>60420</b>	<b>3740</b>	<b>3840</b>

\* Net area determined from absorption specimens unless solid units are used.

Specimen No.	Average Width <i>in.</i>	Average Height <i>in.</i>	Average Length <i>in.</i>	Average Min. FST <i>in.</i>	Average Min. WT <i>in.</i>	Normalized Web Area <i>In.<sup>2</sup>/ft.<sup>2</sup></i>
1	2.01	4.03	7.99			
2	2.01	4.04	7.97			
3	2.02	4.03	7.94			
<b>Average</b>	<b>2.01</b>	<b>4.03</b>	<b>7.96</b>			

Specimen No.	Received Wt, W <sub>R</sub> ** <i>lb</i>	Immersed Wt, W <sub>I</sub> <i>lb</i>	Saturated Wt, W <sub>S</sub> <i>lb</i>	Oven-Dry Wt, W <sub>O</sub> <i>lb</i>	Absorption		Density <i>pcf</i>	Net Volume <i>ft.<sup>3</sup></i>	Net Area <i>in.<sup>2</sup></i>	Percent Solid %	Moisture Content** % of total absorption
	<i>lb</i>	<i>lb</i>	<i>lb</i>	<i>lb</i>	<i>pcf</i>	%	<i>pcf</i>	<i>ft.<sup>3</sup></i>	<i>in.<sup>2</sup></i>	%	
1	28.71	2.68	4.97	4.66	8.4	6.7	127.0	0.0367	15.71	97.9	
2	28.29	2.60	4.88	4.56	8.8	7.0	124.8	0.0365	15.67	97.8	
3	29.05	2.61	4.90	4.58	8.7	7.0	124.8	0.0367	15.73	98.5	
<b>Average</b>	<b>28.68</b>	<b>2.63</b>	<b>4.92</b>	<b>4.60</b>	<b>8.6</b>	<b>6.9</b>	<b>125.5</b>	<b>0.0366</b>	<b>15.71</b>	<b>98.1</b>	

\*\*Received weight determined at the time of unit delivery to the job site or from units sampled at that time and delivered to the laboratory in sealed containers for moisture content determination.

**Remarks:** The units were tested according to ASTM C140. This set meets the absorption and compressive strength requirements of ASTM C1372



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