

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- 142178

Unit Designation and Description: Segmental Retaining Wall Unit
6" Sigma

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	3410 <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		3240 <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		127.2 <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	9.8 <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid		95.4 %	Normalized Web Area		<i>in.²/ft.²</i>
Net Cross-Sectional Area		15.24 <i>in.²</i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area		15.97 <i>in.²</i>	Moisture Content		%

Individual Unit Test Results

Tests conducted on reduced size units.

Specimen No.	Received Wt, W _R <i>lb.</i>	Cross-Sectional Area		Max. Load <i>lb</i>	Compressive Strength	
		Gross <i>in.²</i>	Net* <i>in.²</i>		Gross <i>psi</i>	Net <i>psi</i>
4		16.01	15.31	51235	3200	3340
5		15.87	15.70	48185	3030	3060
6		16.02	14.71	56380	3510	3830
Average		15.97	15.24	51930	3240	3410

* 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.²/ft.²</i>
1	2.43	4.13	8.01			
2	2.32	4.17	8.03			
3	2.51	4.15	8.03			
Average	2.42	4.15	8.02			

Specimen No.	Received Wt, W _R ** <i>lb</i>	Immersed Wt, W _I <i>lb</i>	Saturated Wt, W _S <i>lb</i>	Oven-Dry Wt, W _O <i>lb</i>	Absorption		Density <i>pcf</i>	Net Volume <i>ft.³</i>	Net Area <i>in.²</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.³</i>	<i>in.²</i>	%	
1	48.11	3.32	6.07	5.60	10.7	8.4	127.1	0.0441	18.55	95.1	
2	48.83	3.22	5.95	5.56	8.9	7.0	127.1	0.0437	18.37	97.7	
3	48.90	3.37	6.18	5.74	9.8	7.7	127.5	0.0450	18.46	93.4	
Average	48.61	3.30	6.07	5.63	9.8	7.7	127.2	0.0443	18.46	95.4	

**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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