

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- 142179

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

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	3340 <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		3130 <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		125.6 <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	10.4 <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid		96.7 %	Normalized Web Area		<i>in.²/ft.²</i>
Net Cross-Sectional Area		14.90 <i>in.²</i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area		15.89 <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		15.90	15.14	48120	3020	3170
5		15.91	15.08	46675	2930	3090
6		15.85	14.49	54885	3460	3780
Average		15.89	14.90	49890	3130	3340

* 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	2.04	4.12	8.04			
2	2.26	4.14	8.02			
3	2.41	4.03	8.00			
Average	2.24	4.09	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	68.73	2.75	5.10	4.72	10.1	8.1	125.3	0.0376	17.25	96.4	
2	66.40	3.08	5.69	5.21	11.5	9.2	124.6	0.0418	17.17	96.5	
3	65.89	3.24	5.97	5.55	9.6	7.6	126.9	0.0437	17.61	97.3	
Average	67.01	3.02	5.59	5.16	10.4	8.3	125.6	0.0411	17.34	96.7	

**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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