

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 15, 2016

Unit Specification: ASTM C1372

Laboratory Number: 10- 142177

Unit Designation and Description: Segmental Retaining Wall Unit
4" Pyzique

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	3810 <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		3720 <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		129.2 <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	9.1 <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid		97.2 %	Normalized Web Area		<i>in.²/ft.²</i>
Net Cross-Sectional Area		15.66 <i>in.²</i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area		16.03 <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		15.97	15.67	55025	3440	3510
5		16.04	15.65	58675	3650	3740
6		16.07	15.67	65705	4080	4190
Average		16.03	15.66	59800	3720	3810

* 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	2.03	4.04	8.01			
2	1.99	4.04	7.99			
3	2.03	4.03	8.00			
Average	2.02	4.03	8.00			

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	24.50	2.78	5.08	4.75	9.0	6.9	128.9	0.0368	15.65	96.9	
2	25.11	2.74	5.00	4.68	8.8	6.8	129.2	0.0362	15.67	97.5	
3	25.22	2.81	5.10	4.75	9.5	7.4	129.4	0.0367	15.71	97.0	
Average	24.94	2.78	5.06	4.73	9.1	7.1	129.2	0.0366	15.68	97.2	

**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



Chas M. Snyder, PE
Laboratory Manager