

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- 142180

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

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	3970 <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		3800 <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		125.5 <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	9.8 <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid		95.1 %	Normalized Web Area		<i>in.²/ft.²</i>
Net Cross-Sectional Area		15.84 <i>in.²</i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area		16.51 <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		16.18	15.85	58190	3590	3670
5		16.63	15.86	65575	3940	4130
6		16.71	15.81	65150	3890	4120
Average		16.51	15.84	62970	3800	3970


* 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	2.07	4.12	7.96			
2	2.09	4.12	8.01			
3	2.09	4.10	7.95			
Average	2.08	4.11	7.97			

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	46.43	2.80	5.17	4.84	8.7	6.8	127.4	0.0380	15.77	96.8	
2	36.05	2.65	4.93	4.56	10.1	8.1	124.8	0.0365	15.77	91.8	
3	45.79	2.76	5.14	4.74	10.5	8.4	124.3	0.0381	15.83	96.7	
Average	42.76	2.74	5.08	4.71	9.8	7.8	125.5	0.0375	15.79	95.1	

**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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