

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- 142181

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

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	4520 <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		4390 <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		130.1 <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	8.5 <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid		96.8 %	Normalized Web Area		<i>in.²/ft.²</i>
Net Cross-Sectional Area		9.17 <i>in.²</i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area		9.44 <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		9.45	9.09	42110	4450	4630
5		9.48	9.25	41295	4350	4460
6		9.38	9.18	41150	4380	4480
Average		9.44	9.17	41520	4390	4520

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

Specimen No.	Average Width	Average Height	Average Length	Average Min. FST	Average Min. WT	Normalized Web Area
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>In.²/ft.²</i>
1	1.57	3.00	6.00			
2	1.58	2.95	6.03			
3	1.58	2.97	6.00			
Average	1.58	2.97	6.01			

Specimen No.	Received Wt, W _R **	Immersed Wt, W _I	Saturated Wt, W _S	Oven-Dry Wt, W _O	Absorption		Density	Net Volume	Net Area	Percent Solid	Moisture Content**
	<i>lb</i>	<i>lb</i>	<i>lb</i>	<i>lb</i>	<i>pcf</i>	%	<i>pcf</i>	<i>ft³</i>	<i>in²</i>	%	% of total absorption
1	24.23	1.23	2.22	2.08	8.8	6.7	131.1	0.0159	9.09	97.1	
2	23.10	1.17	2.15	2.02	8.3	6.4	128.6	0.0157	9.23	96.5	
3	23.58	1.20	2.18	2.05	8.3	6.3	130.5	0.0157	9.17	96.7	
Average	23.64	1.20	2.18	2.05	8.5	6.5	130.1	0.0158	9.16	96.8	

**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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