

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- 142182

Unit Designation and
Description: Segmental Retaining Wall Unit
Ledgestone Radius

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	5100 <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		5050 <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		129.4 <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	8.0 <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid		98.0 %	Normalized Web Area		<i>in.²/ft.²</i>
Net Cross-Sectional Area		16.42 <i>in.²</i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area		16.58 <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		16.59	16.47	89450	5390	5430
5		16.47	16.41	61135	3710	3720
6		16.70	16.39	101210	6060	6170
Average		16.58	16.42	83930	5050	5100

* 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	2.10	4.03	7.99			
2	2.07	4.04	7.97			
3	2.14	4.05	8.00			
Average	2.10	4.04	7.99			

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	22.80	2.87	5.26	4.97	7.6	5.8	129.8	0.0383	16.49	98.0	
2	22.44	2.82	5.17	4.88	7.7	5.9	129.6	0.0376	16.43	97.8	
3	22.42	2.95	5.40	5.06	8.7	6.7	128.9	0.0392	16.39	98.1	
Average	22.55	2.88	5.28	4.97	8.0	6.2	129.4	0.0384	16.43	98.0	

**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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