

Client: Christopher Gifford
Address: York Building Products Co. Inc.
5952 Lincoln Hwy West
Thomasville, PA 17364

Project Name: York Building Products-Masonry Tests

Date Received: December 13, 2018

Date of Compression Testing: January 2, 2019

Unit Specification: ASTM C1372

Laboratory Number: 10- 167130

Unit Designation and Description: Segmental Retaining Wall Unit
Cornerstone SRW: CS-CR

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	9280 <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		9090 <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		145.8 <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	5.6 <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid		97.9 %	Normalized Web Area		<i>in.²/ft.²</i>
Net Cross-Sectional Area		7.54 <i>in.²</i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area		7.70 <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		7.87	7.70	66061	8390	8580
5		7.91	7.82	74244	9380	9480
6		7.80	7.59	74314	9520	9790
Average		7.86	7.70	71540	9090	9280

* 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	1.28	2.96	6.06	2.16	2.04	32.6
2	1.26	3.02	6.03			
3	1.41	3.10	6.07			
Average	1.32	3.03	6.05			

Specimen No.	Received Wt, W _R **	Immersed Wt, W _I	Saturated Wt, W _S	Oven-Dry Wt, W _D	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>ft.³</i>	<i>in.²</i>	%	% of total absorption
1	85.55	1.17	1.98	1.90	6.2	4.2	146.4	0.0130	7.98	97.7	
2		1.14	1.94	1.88	4.7	3.2	146.6	0.0128	7.84	96.8	
3		1.34	2.29	2.20	5.9	4.1	144.5	0.0152	7.62	99.2	
Average		1.22	2.07	1.99	5.6	3.8	145.8	0.0137	7.81	97.9	

**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