

Client: York Building Products Company
Address: Sam Cooke
325 Fulling Mill Rd.
Middletown, PA 17507

Project Name: York Building Products-Masonry Tests

Date Received: March 20, 2018

Date of Compression Testing: March 27, 2018

Unit Specification: ASTM C1372

Laboratory Number: 10- 159356

Unit Designation and Description: Segmental Retaining Wall Unit
8" Cornerstone Segmental Wall
Frederick Plant

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	6390 <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		6260 <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		137.6 <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	6.4 <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	#	9.06 <i>in.²</i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area	#	9.23 <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		9.64	9.17	66665	6910	7270
5		8.81	8.77	53505	6070	6100
6		9.25	9.23	53715	5800	5810
Average		9.23	9.06	57960	6260	6390

* 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	1.56	2.88	6.03			
2	1.52	2.93	6.00			
3	1.52	2.99	6.00			
Average	1.53	2.93	6.01			

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	78.07	1.24	2.22	2.10	7.6	5.7	133.7	0.0157	9.36	99.6	
2		1.29	2.26	2.17	5.8	4.1	139.6	0.0155	8.66	95.0	
3		1.29	2.26	2.17	5.8	4.1	139.6	0.0155	9.03	99.4	
Average		1.27	2.25	2.15	6.4	4.7	137.6	0.0156	9.02	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
- Data represents coupons prepared for absorption and compression tests. Original nominal dimensions: 18" front x 16" back x 12" x 8"



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Laboratory Manager