

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- 159355

Unit Designation and Description: Segmental Retaining Wall Unit
8" Keystone 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	7160 <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		7000 <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		134.1 <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	6.3 <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid	#	97.7 %	Normalized Web Area		<i>in.²/ft.²</i>
Net Cross-Sectional Area	#	11.89 <i>in.²</i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area	#	12.17 <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		11.88	11.82	88360	7430	7470
5		12.53	12.28	81300	6490	6620
6		12.09	11.57	85675	7080	7400
Average		12.17	11.89	85110	7000	7160

* 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	1.83	3.32	6.98			
2	1.78	3.50	6.91			
3	1.77	3.53	7.04			
Average	1.79	3.45	6.98			

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	77.51	1.87	3.38	3.24	5.8	4.3	133.9	0.0242	12.68	98.8	
2		1.91	3.42	3.26	6.6	4.9	134.7	0.0242	12.04	97.3	
3		1.92	3.46	3.30	6.5	4.8	133.7	0.0247	11.92	96.9	
Average		1.90	3.42	3.27	6.3	4.7	134.1	0.0244	12.21	97.7	

**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 14" back x 12" x 8"



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Laboratory Manager