

Client: York Building Products Company
Address: Sam Cooke
950 Smile Way
York, PA 17404

Project Name: York Building Products - Frederick Plant

Date Received: February 14, 2022

Unit Specification: ASTM C1372

Date of Compression Testing: May 20, 2022

Unit Designation and Description: Segmental Retaining Wall Unit

Date of Absorption Testing: May 12, 2022

Testing Technician: A S Konte

Compac III

Laboratory Number: 10- 198442

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	5910 <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		5710 <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		139.9 <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	7.4 <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid		%	Normalized Web Area		<i>in.²/ft.²</i>
Net Cross-Sectional Area		<i>in.²</i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area		<i>in.²</i>	Moisture Content		%

Individual Unit Test Results

Tests conducted on reduced size units.

Compression 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	12.76		12.42	77415
5	12.62	12.37	61885	4900	5000	
6	13.11	12.45	81035	6170	6500	
Average		12.83	12.41	73450	5710	5910

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

Absorption Units

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	1.82	3.56	7.01			
2	1.80	3.55	6.91			
3	1.84	3.56	6.95			
Average	1.82	3.55	6.95			

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		2.22	3.84	3.66	6.9	4.9	141.0	0.0260	12.44		
2		2.10	3.65	3.46	7.6	5.5	139.3	0.0248	12.47		
3		2.20	3.82	3.62	7.7	5.5	139.4	0.0260	12.44		
Average		2.17	3.77	3.58	7.4	5.3	139.9	0.0256	12.45		

**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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Samples were obtained and delivered to the lab by the client.



Chas M. Snyder, PE
Laboratory Manager