

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

Project Name: York Building Products

Date Received: December 8, 2021

Date of Compression Testing: February 3, 2022

Date of Absorption Testing: January 26, 2022

Unit Specification: ASTM C1372  
Unit Designation and Description: Segmental Retaining Wall Unit  
Standard III SRW  
Frederick Plant

Testing Technician: A S Konte

Laboratory Number: 10- 196314

**Summary of Test Results**

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	<b>8630</b> <i>psi</i>	Min. Faceshell Thickness (FST)		<i>in.</i>
Gross Compressive Strength		<b>8140</b> <i>psi</i>	Min. Web Thickness (WT)		<i>in.</i>
Density		<b>146.0</b> <i>pcf</i>	Equivalent Web Thickness		<i>in.</i>
Absorption (max.)	13	<b>5.5</b> <i>pcf</i>	Equivalent Thickness		<i>in.</i>
Percent Solid		<b>94.3</b> %	Normalized Web Area		<i>in.<sup>2</sup>/ft.<sup>2</sup></i>
Net Cross-Sectional Area		<b>9.74</b> <i>in.<sup>2</sup></i>	Max. Var. From Spec. Dimensions		<i>in.</i>
Gross Cross-Sectional Area		<b>10.33</b> <i>in.<sup>2</sup></i>	Moisture Content		%

**Individual Unit Test Results**

**Tests conducted on reduced size units.**

*Compression Units*

Specimen No.	Received Wt, W <sub>R</sub> <i>lb.</i>	Cross-Sectional Area		Max. Load <i>lb</i>	Compressive Strength	
		Gross <i>in.<sup>2</sup></i>	Net* <i>in.<sup>2</sup></i>		Gross <i>psi</i>	Net <i>psi</i>
		4			10.39	9.69
5		9.95	9.69	85920	8630	8870
6		10.64	9.84	80695	7580	8190
<b>Average</b>		<b>10.33</b>	<b>9.74</b>	<b>84060</b>	<b>8140</b>	<b>8630</b>

\* 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.<sup>2</sup>/ft.<sup>2</sup></i>
1	1.66	3.03	6.13			
2	1.67	3.08	6.06			
3	1.67	3.12	6.11			
<b>Average</b>	<b>1.66</b>	<b>3.08</b>	<b>6.10</b>			

Specimen No.	Received Wt, W <sub>R</sub> **	Immersed Wt, W <sub>I</sub>	Saturated Wt, W <sub>S</sub>	Oven-Dry Wt, W <sub>D</sub>	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.<sup>3</sup></i>	<i>in.<sup>2</sup></i>	%	% of total absorption
1		1.54	2.63	2.53	5.7	4.0	144.8	0.0175	10.02		
2		1.56	2.65	2.56	5.2	3.5	146.6	0.0175	9.86		
3		1.60	2.71	2.61	5.6	3.8	146.7	0.0178	9.73		
<b>Average</b>		<b>1.57</b>	<b>2.66</b>	<b>2.57</b>	<b>5.5</b>	<b>3.8</b>	<b>146.0</b>	<b>0.0176</b>	<b>9.87</b>		

\*\*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