

Project No.: YORKX-19001

Report Date: June 28, 2021

Client: York Building Products Company

Address: Sam Cooke

950 Smile Way York, PA 17404

Unit Specification: ASTM C1372

Unit Designation and

Description: Segmental Retaining Wall Unit

Compac III Straight Face

Project Name:

**York Building Products** 

Date Received: April 28, 2021

Date of Compression Testing: June 28, 2021

Date of Absorption Testing: June 22, 2021

Testing Technician: T Rex

Laboratory Number: 10- 191089

### Summary of Test Results

Physical Property	Specification Values	Average Test Results		Physical Property	Specification Values	Average Tes Results	t
Net Compressive Strength (min.)	3000	9510	psi	Min. Faceshell Thickness (FST)		2.02	in.
Gross Compressive Strength		9180	psi	Min. Web Thickness (WT)		1.85	in.
Density		144.5	pcf	Equivalent Web Thickness		11.22	in.
Absorption (max.)	13	6.8	pcf	Equivalent Thickness			in.
Percent Solid			%	Normalized Web Area	0	33.3	in. <sup>2</sup> /ft. <sup>2</sup>
Net Cross-Sectional Area	[coupon data]	12.42	in. <sup>2</sup>	Max. Var. From Spec. Dimensions			in.
Gross Cross-Sectional Area	[coupon data]	11.99	in. <sup>2</sup>	Moisture Content			%

#### **Individual Unit Test Results**

#### Tests conducted on reduced size units.

# Compression Units

Specimen No.	Received Wt, W₀	Cross-Se	ectional Area	May Lood	Compressive Strength		
	Received Wt, W <sub>R</sub>	Gross	Net <sup>*</sup>	Max. Load	Gross	Net	
	lb.	in. <sup>2</sup>	in. <sup>2</sup>	lb	psi	psi	
4	81.97	12.42	12.04	112496	9060	9340	
5	82.58	12.53	11.93	117453	9370	9840	
6	81.94	12.33	12.00	112318	9110	9350	
Average	82.16	12.42	11.99	114090	9180	9510	

<sup>\*</sup> Net area determined from absorption specimens unless solid units are used.

## Absorption Units

Specimen	Average Width	Height Average Length		Average Min. FST	Average Min. WT	Normalized Web Area	
No.	in.	in.	in.	in.	in.	In. <sup>2</sup> /ft <sup>2</sup>	
1	2.06	3.05	5.97	2.02	1.85	33.3	
2	2.09	3.05	5.89	2.03	1.84	33.1	
3	2.08	3.03	5.91	2.02	1.85	33.4	
Average	2.08	3.04	5.92	2.02	1.85	33.3	

Average Original						
Dimensions (in.)						
Length	15.98					
Width	12.11					
Height	15.98					

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** % of total
	lb	lb	lb	lb	pcf	%	pcf	ft <sup>3</sup>	in <sup>2</sup>	%	absorption
1	80.78	1.87	3.18	3.04	6.7	4.6	144.8	0.0210	12.00		
2	82.71	1.89	3.23	3.08	7.0	4.9	143.4	0.0215	12.00		
3	80.14	1.88	3.19	3.05	6.7	4.6	145.3	0.0210	12.06		
Average	81.21	1.88	3.20	3.06	6.8	4.7	144.5	0.0211	12.02		

<sup>\*\*</sup>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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Chas M. Snyder, PE Laboratory Manager

