

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

Project Name: York Building Products

Date Received: April 28, 2021

Unit Specification: ASTM C1372

Date of Compression Testing: June 28, 2021

Unit Designation and Description: Segmental Retaining Wall Unit
Cornerstone Straight Face

Date of Absorption Testing: June 22, 2021

Testing Technician: T Rex

Laboratory Number: 10- 191088

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	3000	10280 psi	Min. Faceshell Thickness (FST)		2.11 in.
Gross Compressive Strength		10160 psi	Min. Web Thickness (WT)		3.10 in.
Density		152.2 pcf	Equivalent Web Thickness		18.47 in.
Absorption (max.)	13	4.9 pcf	Equivalent Thickness		in.
Percent Solid		%	Normalized Web Area		52.2 in. ² /ft. ²
Net Cross-Sectional Area	[coupon data]	13.69 in. ²	Max. Var. From Spec. Dimensions		in.
Gross Cross-Sectional Area	[coupon data]	13.85 in. ²	Moisture Content		%

Individual Unit Test Results

Tests conducted on reduced size units.

Compression Units

Specimen No.	Received Wt, W _R lb.	Cross-Sectional Area		Max. Load lb	Compressive Strength	
		Gross in. ²	Net* in. ²		Gross psi	Net psi
		4	88.15		13.82	13.64
5	89.35	13.89	13.76	140949	10140	10240
6	87.66	13.85	13.67	142639	10300	10430
Average	88.39	13.85	13.69	140870	10160	10280

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

Absorption Units

Specimen No.	Average Width in.	Average Height in.	Average Length in.	Average Min. FST in.	Average Min. WT in.	Normalized Web Area In. ² /ft. ²
1	2.30	3.02	5.99	2.10	3.07	51.7
2	2.29	3.04	6.04	2.14	3.14	52.8
3	2.31	2.98	6.10	2.08	3.09	52.1
Average	2.30	3.01	6.04	2.11	3.10	52.2

Average Original Dimensions (in.)	
Length	17.09
Width	12.14
Height	8.01

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**
	lb	lb	lb	lb	pcf	%	pcf	ft ³	in ²	%	% of total absorption
1	90.04	2.16	3.58	3.46	5.3	3.5	152.0	0.0227	13.51		
2	86.90	2.32	3.84	3.73	4.5	2.9	153.1	0.0244	13.44		
3	87.64	2.23	3.71	3.59	5.1	3.3	151.4	0.0237	13.69		
Average	88.19	2.24	3.71	3.59	4.9	3.3	152.2	0.0236	13.55		

**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