

Project No.: CAMBR 22001-01

Report Date: July 13, 2022

CONSULTI	NG ENGINEERS		
Client:	Cambridge Pavers Inc.	Project Name:	Cambridge Pavers
Address:	Charles H Gamarekiam Jr		
	PO Box 157		Date Received: June 9, 2022
	Lyndhurst, NJ 0701-0157		
		Date of Compr	ession Testing: July 11, 202
Unit	Specification: ASTM C1372		

Unit Designation and

Description: Segmental Retaining Wall Unit

Matryx 6"

Summary of Test Results

ne 9, 2022

y 11, 2022

Date of Absorption Testing: July 12, 2022

Testing Technician: **S Williams / M Seibert**

Laboratory Number:10- 199212

Physical Property	Specification Values	Test		Physical Property	Specification Average Test Values Results		
Net Compressive Strength (min.)	3000	5480	psi	Min. Faceshell Thickness (FST)		in.	
Gross Compressive Strength		5430	psi	Min. Web Thickness (WT)		in.	
Density		130.3	pcf	Equivalent Web Thickness		in.	
Absorption (max.)	13	6.4	pcf	Equivalent Thickness		in.	
Percent Solid	[coupon]	99.2	%	Normalized Web Area		in. ² /ft. ²	
Net Cross-Sectional Area	[coupon]	8.98	in. ²	Max. Var. From Spec. Dimensions		in.	
Gross Cross-Sectional Area	[coupon]	9.05	in. ²	Moisture Content		%	

Individual Unit Test Results

Tests conducted on reduced size units.

	C	Received Wt, W _R	Cross-Se	ectional Area	Max Load	Compressive Strength		
	Specimen No.		Gross	Net [*]	Max. Load	Gross	Net	
		lb.	in. ²	in. ²	lb	psi	psi	
Compression Units	4		8.98	8.97	48741	5420	5430	
compression onits	5		9.02	8.93	49126	5440	5500	
	6		9.17	9.03	49959	5450	5530	
	Average		9.05	8.98	49280	5430	5480	

* 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
		in.	in.	in.	in.	in.	In. ² /ft ²
Absorption Units	1	1.53	3.04	6.01			
Absorption onits	2	1.48	3.04	6.02			
	3	1.53	3.04	5.98			
	Average	1.51	3.04	6.00			

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** % of total
	lb	lb	lb	lb	pcf	%	pcf	ft ³	in ²	%	absorption
1		1.19	2.18	2.08	6.3	4.8	131.1	0.0159	8.93		
2		1.13	2.09	1.99	6.5	5.0	129.4	0.0154	8.93		
3		1.18	2.17	2.07	6.3	4.8	130.5	0.0159	8.93		
Average		1.17	2.15	2.05	6.4	4.9	130.3	0.0157	8.93		

**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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Bayder

Chas M. Snyder, PE Laboratory Manager

