

ASTM C140/C140M-20a Test Report
Sampling and Testing Concrete Masonry Units and Related Units

Job No.: 21-314-17
Report Date: 7/30/2021

Client: Best Block
Address: 2088 FM 949
Alleyton, TX 78935

Testing Agency: National Concrete Masonry Association
Research and Development Laboratory
Address: 13750 Sunrise Valley Drive
Herndon, VA 20171-4662

Sampling Party: Best Block

Unit Description: 6 in. Solid Cylinder
Mark: 'ID: No. 17'

Date Samples Received: 6/3/2021

Note: Compression specimens have been saw cut from full-size units into coupons in order to comply with the specimen configuration requirements of ASTM C140/C140M-20a.

Summary of Test Results

<u>Physical Property</u>	<u>Tested Values</u>	
Net Compressive Strength	9330	psi
Gross Compressive Strength	9330	psi

Individual Unit Test Results

<u>Dimensions of Full-Size Units</u>	<u>Avg Diameter in.</u>	<u>Avg Height in.</u>
Unit #1	6.00	11.53
Unit #2	5.97	11.54
Date Tested 6/23/2021	Unit #3 5.98	Unit #3 11.47
	Average 5.98	Average 11.51

Properties of Saw-Cut Compression Specimens

	Received Wt, W _R lb	Avg Width in.	Avg Height in.	Avg Length in.	Cross-Sectional Area ¹		Max. Load lb	Compressive Strength	
					Gross in ²	Net in ²		Gross psi	Net psi
Unit #1	27.78	1.35	2.49	4.99	6.55	6.55	67,320	10,280	10,280
Unit #2	27.82	1.28	2.48	5.10	6.55	6.55	56,080	8,570	8,570
Date Tested 6/29/2021	Unit #3 27.58	Unit #3 1.26	Unit #3 2.48	Unit #3 5.09	Unit #3 6.55	Unit #3 6.55	Unit #3 59,770	Unit #3 9,130	Unit #3 9,130
	Average 27.73	Average 1.29	Average 2.49	Average 5.06	Average 6.55	Average 6.55	Average 61,060	Average 9,330	Average 9,330

¹ Unit areas determined as the average width by length of the three saw-cut specimens.



Timothy Jones
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Jason J. Thompson
Vice President of Engineering