

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

Job No.: 21-314-16
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: 4x8x16 in. CMU
Mark: 'ID: Solid Normal Weight No. 16'

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	4850	psi
Gross Compressive Strength	4850	psi

Individual Unit Test Results

<u>Dimensions of Full-Size Units</u>	<u>Avg Width</u> in.	<u>Avg Height</u> in.	<u>Avg Length</u> in.
Unit #1	3.65	7.64	15.55
Unit #2	3.64	7.61	15.58
Date Tested 1/0/1900	Unit #3 3.63	7.63	15.55
	Average 3.64	7.63	15.56

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	4.92	2.01	4.01	8.00	16.18	16.18	68,930	4,260	4,260
Unit #2	5.00	2.02	4.02	7.98	16.18	16.18	70,140	4,340	4,340
Date Tested 6/24/2021	Unit #3 5.20	2.05	4.00	7.98	16.18	16.18	96,420	5,960	5,960
	Average 5.04	2.03	4.01	7.99	16.18	16.18	78,500	4,850	4,850

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