

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

Job No.: 21-314-18
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. Cylinder Solid Pile Cap
Mark: 'ID: No. 18'

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	10380	psi
Gross Compressive Strength	10380	psi

Individual Unit Test Results

<u>Dimensions of Full-Size Units</u>	Avg Width		Avg Height	Avg Length		
	Top in.	Bottom in.	in.	Top in.	Bottom in.	
	Unit #1	8.61	9.54	8.61	10.54	14.58
Unit #2	8.55	9.56	8.59	10.57	14.65	
Date Tested	Unit #3	8.60	9.57	8.56	10.60	14.68
1/0/1900	Average	8.59	9.56	8.58	10.57	14.64

Properties of Saw-Cut

<u>Compression Specimens</u>	Received Wt, W _R lb	Avg Width in.	Avg Height in.	Avg Length in.	Cross-Sectional Area ¹		Max. Load lb	Compressive Strength		
					Gross	Net		Gross	Net	
					in ²	in ²		psi	psi	
Unit #1	5.48	2.04	4.03	7.97	16.31	16.31	157,150	9,640	9,640	
Unit #2	5.54	2.06	4.05	7.98	16.31	16.31	186,730	11,450	11,450	
Date Tested	Unit #3	5.38	2.02	4.00	8.03	16.31	16.31	163,950	10,050	10,050
6/30/2021	Average	5.47	2.04	4.03	7.99	16.31	16.31	169,280	10,380	10,380

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



Timothy Jones
Manager, Research and Development Laboratory



Jason J. Thompson
Vice President of Engineering