

CONCRETE MASONRY UNIT TEST REPORT

Report Number: 90191193.0004R
 Service Date: 3/26/2019
 Report Date: 4/22/2019



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Client

Best Block, LLC
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Project

Best Block Lab Testing
 Alleyton, Texas Plant

Project Number: 90191193

PROJECT INFORMATION AND TEST RESULTS

Terracon Representative: Randy Guerra Date Received: 3/26/2019
 Unit Description: 8" Split Face Normal Weight CMU Height 8 Width 8 Length 16

Summary of Tests Results

Physical Property	Specified Values	Average Test		Physical Property	Specified Values	Average Test Results
		Results	Results			
Net Compressive Strength	2,000	5,307 psi	Min. Faceshell Thickness (FST)	1.25	1.44 in.	
Gross Compressive Strength		2,760 psi	Min. Web Thickness (WT)	0.75	1.21 in.	
Density		134.60 pcf	Equivalent Web Thickness		2.80 in.	
Absorption		7.35 pcf	Equivalent Thickness	--	4.25 in.	
Percent Solid		52.76 psi	Net Cross-Sectional Area	--	66.11 in. ²	
			Gross Cross-Sectional Area	--	125.30 in. ²	
			Normalized Web Area (A _{wn})	6.50	31.08 in. ²	

Individual Unit Test Results

Specimen No.	Received Wt, WR (lb.)	Cross-Sectional Area		Max. Load (lb.)	Compressive Strength		
		Gross (in. ²)	Net* (in. ²)		Gross (psi)	Net (psi)	
Compression Units	#1	41.43	125.30	65.22	360,680	2,880	5,530
	#2	39.09	125.30	65.22	351,650	2,810	5,390
	#3	39.51	125.30	65.22	325,910	2,600	5,000
	Average	40.01	125.30	65.22	346,080	2,760	5,307

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

Specimen No.	Avg. Width (in)	Avg. Height (in)	Avg. Length (in)	Avg. min FST (in)	Avg. min WT (in)	Avg. Web Height (in)	Min. Web Area (in ²)	Norm. Web Area (in ² /ft ²)	
Absorption Units	#4	8.020	7.610	15.560	1.47	1.20	7.61	27.40	30.82
	#5	8.100	7.610	15.560	1.43	1.21	7.61	27.62	31.08
	#6	8.040	7.610	15.560	1.43	1.22	7.61	27.85	31.33
	Average	8.053	7.610	15.560	1.44	1.21	7.61	27.62	31.08

Specimen No.	Received Wt, WR** (lb.)	Immersed Wt, WI (lb.)	Saturated Wt, Ws (lb.)	Oven-Dry Wt, Wd (lb.)	Absorp. (pcf)	Density (pcf)	Net Volume (ft ³)	Net Area (in ²)	Percent Solid (%)	Moisture Content** % of total absorption
Date/Time	4.3.19 1500	4.4.2019	4.4.2019	4.5.2019						
#4	41.43	24.10	42.70	40.58	7.11	136.14	0.2981	67.68	54.02	--
#5	39.09	22.60	40.50	38.30	7.67	133.52	0.2869	65.14	51.98	--
#6	39.51	22.80	40.80	38.70	7.28	134.16	0.2885	65.50	52.28	--
Average	40.01	23.17	41.33	39.19	7.35	134.60	0.2911	66.11	52.76	--

Tested in accordance with ASTM C140-18a and C1552-16 (in Terracon Lab) unless otherwise stated. These tested properties meet or exceed the applicable requirements of ASTM C90-16a unless indicated with *.

Reviewed By:

Daniel K. Jacobs
 Senior Project Manager

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