

# CAROLINA STALITE COMPANY

MANUFACTURERS OF LIGHTWEIGHT AGGREGATE "STALITE"

PHONE 704-637-1515 FAX 704-642-1572



DRAWER 1037 SALISBURY, N.C. 28145-1037

SHIPPING POINTS: GOLD HILL, NC; AQUADALE, NC

## TEST REPORT FOR CONCRETE MASONRY UNITS ASTM C90 Certification Tested per ASTM C140

PLANT: JCC - Concord 4 Inch Commercial  
Date Tested: 11/19/2020 BLOCK TYPE: Lightweight  
Date Produced: Not Reported Gray

BLOCK DIMENSIONS				AVERAGE THICKNESS (in)	
NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
1	15.70	3.64	7.59	WEB	1.10
	15.70	3.64	7.62	FACE	1.07
2	15.71	3.64	7.58	WEB AREA (in <sup>2</sup> /sf)	29.88
	15.71	3.65	7.58		
3	15.73	3.65	7.59	EQUIVALENT	2.57
	15.72	3.65	7.60		

PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	19.48	20.67	9.79	18.33	105.16
2	19.01	20.56	9.66	18.15	103.96
3	19.84	21.38	9.97	19.05	104.16
AVERAGE	19.44	20.87	9.81	18.51	104.42
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	49.19	0.25	0.17	12.78	13.44
2	35.66	0.25	0.17	13.26	13.78
3	34.02	0.25	0.18	12.22	12.73
AVERAGE	39.62	0.25	0.18	12.75	13.32
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	57.19	39.68	98450	1722	2480
2	57.20	39.82	113100	1977	2840
3	57.36	41.66	95780	1670	2300
AVERAGE	57.25	40.38	102443.33	1789	2540

The blocks tested met ASTM C-90 specifications for the tests performed  
Equivalent Thickness of the blocks tested indicates a fire rating of  
0.75 hours based on ACI 216.1 tables.

Submitted by:

*Andy R. Wall*

GOLD HILL RESEARCH AND MATERIALS LABORATORY

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