

# 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 Piedmont  
Date Tested: 10/24/2024  
Date Produced: 9/3/2024

8 Inch Residential  
BLOCK TYPE: Mediumweight  
Gray

BLOCK DIMENSIONS				AVERAGE THICKNESS (in)	
NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
1	15.69	7.67	7.66	WEB	1.03
	15.66	7.69	7.66	FACE	1.28
2	15.68	7.66	7.64	WEB AREA (in <sup>2</sup> /sf)	28.34
	15.69	7.65	7.65		
3	15.66	7.65	7.65	EQUIVALENT	3.60
	15.67	7.64	7.61		
PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	28.37	30.32	14.71	27.56	110.20
2	28.30	30.25	14.71	27.51	110.46
3	28.10	30.20	14.63	27.45	110.02
AVERAGE	28.26	30.26	14.68	27.50	110.23
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	29.44	0.53	0.25	10.01	11.03
2	28.91	0.53	0.25	9.96	11.00
3	23.67	0.53	0.25	10.03	11.04
AVERAGE	27.34	0.53	0.25	10.00	11.02
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	120.26	56.43	171910	1430	3050
2	120.07	56.31	182010	1516	3230
3	119.72	56.35	178770	1493	3170
AVERAGE	120.02	56.36	177563.33	1480	3150

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

Submitted By:

Daniel Furr, PE

GOLD HILL RESEARCH AND MATERIALS LABORATORY

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