

CAROLINA STALITE COMPANY

MANUFACTURERS OF LIGHTWEIGHT AGGREGATE "STALITE"

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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 12 Inch Commercial
Date Tested: 11/10/2023 BLOCK TYPE: Lightweight
Date Produced: Not Reported Gray

BLOCK DIMENSIONS				AVERAGE THICKNESS (in)	
NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
1	15.60	11.66	7.58	WEB	1.29
	15.58	11.65	7.54	FACE	1.55
2	15.59	11.66	7.57	WEB AREA (in ² /sf)	35.85
	15.60	11.66	7.58		
3	15.59	11.65	7.59	EQUIVALENT	5.42
	15.58	11.65	7.62		
PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	42.51	45.34	22.11	39.07	104.94
2	42.13	45.08	21.97	38.53	104.06
3	42.43	45.12	22.12	38.59	104.68
AVERAGE	42.36	45.18	22.07	38.73	104.56
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	54.93	0.80	0.37	16.06	16.85
2	55.00	0.80	0.37	16.98	17.67
3	58.82	0.80	0.37	16.93	17.72
AVERAGE	56.25	0.80	0.37	16.65	17.41
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	181.83	84.86	231280	1272	2730
2	181.74	84.55	194760	1072	2300
3	181.53	83.92	212570	1171	2530
AVERAGE	181.70	84.44	212870.00	1172	2520

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

Submitted By:

Daniel Furr, PE

GOLD HILL RESEARCH AND MATERIALS LABORATORY

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