

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: 7/14/2023
Date Produced: Not Reported

8 Inch Restricted Bond Beam
BLOCK TYPE: Lightweight

BLOCK DIMENSIONS				AVERAGE THICKNESS (in)	
NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
1	15.61	7.64	7.56	WEB	1.41
	15.60	7.64	7.55	FACE	1.28
2	15.59	7.65	7.55	WEB AREA (in ² /sf)	38.91
	15.60	7.66	7.53		
3	15.60	7.66	7.56	EQUIVALENT	3.57
	15.62	7.64	7.56		
PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	25.93	28.61	13.38	25.52	104.54
2	26.06	28.56	13.38	25.65	105.47
3	25.87	28.58	13.38	25.39	104.21
AVERAGE	25.95	28.58	13.38	25.52	104.74
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	13.08	0.52	0.24	12.10	12.65
2	13.85	0.52	0.24	11.31	11.93
3	15.09	0.52	0.24	12.58	13.11
AVERAGE	14.01	0.52	0.24	12.00	12.56
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	119.30	55.78	155430	1303	2790
2	119.26	55.65	173120	1452	3110
3	119.53	55.68	151230	1265	2720
AVERAGE	119.37	55.70	159926.67	1340	2870

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

Submitted By:

Daniel Furr

GOLD HILL RESEARCH AND MATERIALS LABORATORY

P.O. BOX 186 GOLD HILL, NC 28071

PHONE: 704 279-2166 FAX: 704 279-6151