

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 - Willow Springs

4 Inch

Date Tested: 9/10/2024

BLOCK TYPE: Normal weight

Date Produced: Not Reported

Gray / Spec Brik

BLOCK DIMENSIONS				AVERAGE THICKNESS (in)	
NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
1	15.57	3.63	7.66	WEB	1.05
	15.58	3.64	7.67	FACE	1.07
2	15.58	3.64	7.64	WEB AREA (in ² /sf)	28.86
	15.58	3.65	7.63		
3	15.56	3.65	7.54	EQUIVALENT	2.54
	15.56	3.64	7.51		
PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	22.85	24.00	13.13	22.47	128.94
2	22.93	24.10	13.18	22.58	129.05
3	22.29	23.64	12.80	21.98	126.48
AVERAGE	22.69	23.91	13.04	22.34	128.16
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	24.61	0.25	0.17	6.80	8.77
2	22.89	0.25	0.17	6.73	8.69
3	18.41	0.25	0.17	7.56	9.56
AVERAGE	21.97	0.25	0.17	7.03	9.01
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	56.49	39.30	154070	2727	3920
2	56.77	39.56	161440	2844	4080
3	56.76	39.85	166160	2928	4170
AVERAGE	56.67	39.57	160556.67	2833	4060

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:

Daniel Furr, PE

GOLD HILL RESEARCH AND MATERIALS LABORATORY

P.O. BOX 186 GOLD HILL, NC 28071

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