

# 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

8 Inch Sound Blox

Date Tested: 12/28/2023

BLOCK TYPE: Lightweight

Date Produced: 11/30/2023

Gray

BLOCK DIMENSIONS				AVERAGE THICKNESS (in)	
NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
1	15.59	7.64	7.64	WEB	1.38
	15.60	7.66	7.63	FACE	1.03
2	15.59	7.63	7.61	WEB AREA (in <sup>2</sup> /sf)	38.24
	15.59	7.66	7.62		
3	15.58	7.64	7.62	EQUIVALENT	4.53
	15.59	7.64	7.60		
PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	32.67	35.84	16.48	31.91	102.85
2	32.64	35.96	16.60	31.83	102.59
3	32.85	36.19	16.55	32.11	102.04
AVERAGE	32.72	36.00	16.54	31.95	102.49
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	19.19	0.53	0.31	12.32	12.67
2	19.74	0.52	0.31	12.99	13.32
3	18.20	0.52	0.31	12.69	12.95
AVERAGE	19.04	0.53	0.31	12.67	12.98
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	119.14	58.25	138810	1165	2380
2	119.00	58.11	137780	1158	2380
3	118.95	58.08	136840	1150	2360
AVERAGE	119.03	58.15	137810.00	1158	2370

The blocks tested met ASTM C-90 specifications for the tests performed

Equivalent Thickness of the blocks tested indicates a fire rating of 2.5 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