

# 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

6 Inch 75% Solid

Date Tested: 5/31/2024

BLOCK TYPE: Lightweight

Date Produced: 4/10/2024

Gray

BLOCK DIMENSIONS				AVERAGE THICKNESS (in)	
NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
1	15.59	6.63	7.70	WEB	1.10
	15.59	6.63	7.71	FACE	2.06
2	15.60	6.67	7.73	WEB AREA (in <sup>2</sup> /sf)	30.23
	15.61	6.66	7.73		
3	15.60	6.67	7.69	EQUIVALENT	4.55
	15.61	6.66	7.71		
PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	33.63	36.30	16.75	32.32	103.16
2	34.79	37.17	17.30	33.33	104.68
3	34.93	37.27	17.42	33.55	105.46
AVERAGE	34.45	36.91	17.15	33.07	104.43
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	32.95	0.46	0.31	12.30	12.69
2	38.02	0.47	0.32	11.52	12.06
3	37.22	0.46	0.32	11.08	11.69
AVERAGE	36.06	0.46	0.32	11.63	12.15
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	103.42	70.35	248650	2404	3530
2	104.04	71.19	249110	2394	3500
3	104.06	71.47	227530	2187	3180
AVERAGE	103.84	71.01	241763.33	2328	3400

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

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