

# 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 Commercial  
Date Tested: 9/10/2024 BLOCK TYPE: Lightweight  
Date Produced: Not Reported Gray

BLOCK DIMENSIONS				AVERAGE THICKNESS (in)	
NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
1	15.65	7.67	7.70	WEB	1.07
	15.63	7.68	7.69	FACE	1.32
2	15.63	7.69	7.71	WEB AREA (in <sup>2</sup> /sf)	29.44
	15.63	7.68	7.71		
3	15.62	7.68	7.67	EQUIVALENT	3.84
	15.63	7.68	7.68		
PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	28.60	30.51	13.82	27.83	104.09
2	28.36	30.39	13.85	27.57	104.08
3	28.27	30.39	13.64	27.53	102.62
AVERAGE	28.41	30.43	13.77	27.65	103.60
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	28.62	0.53	0.27	9.61	10.01
2	27.95	0.54	0.26	10.20	10.61
3	25.95	0.53	0.27	10.36	10.63
AVERAGE	27.51	0.53	0.27	10.06	10.42
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	120.00	60.05	148560	1238	2470
2	120.20	59.36	155970	1298	2630
3	119.89	60.46	153860	1283	2540
AVERAGE	120.03	59.96	152796.67	1273	2550

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

Submitted By:

Daniel Furr, PE

GOLD HILL RESEARCH AND MATERIALS LABORATORY

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