

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 12 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	15.59	11.66	7.66	WEB	1.32
	15.59	11.68	7.65	FACE	1.58
2	15.60	11.66	7.66	WEB AREA (in ² /sf)	36.36
	15.58	11.68	7.67		
3	15.58	11.67	7.64	EQUIVALENT	5.57
	15.60	11.68	7.65		
PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	42.79	44.54	20.57	40.21	104.72
2	42.86	44.95	20.95	40.39	105.00
3	42.41	44.99	20.93	40.51	105.08
AVERAGE	42.68	44.83	20.82	40.37	104.93
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	59.56	0.81	0.38	10.75	11.26
2	54.06	0.81	0.38	11.29	11.86
3	42.34	0.80	0.39	11.05	11.61
AVERAGE	51.98	0.81	0.38	11.03	11.58
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	181.86	86.64	296310	1629	3420
2	181.88	86.79	314100	1727	3620
3	181.90	87.19	324550	1784	3720
AVERAGE	181.88	86.87	311653.33	1713	3590

The blocks tested met ASTM C-90 specifications for the tests performed
Equivalent Thickness of the blocks tested indicates a fire rating of
3.5 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