

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 Pro Block Knockout

Date Tested: 3/16/2023

BLOCK TYPE: Lightweight

Date Produced: N/A

Gray

BLOCK DIMENSIONS				AVERAGE THICKNESS (in)	
NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
1	15.63	11.65	7.68	WEB	1.28
	15.61	11.65	7.70	FACE	1.59
2	15.62	11.65	7.69	WEB AREA (in ² /sf)	23.50
	15.62	11.65	7.69		
3	15.63	11.65	7.70	EQUIVALENT	4.29
	15.62	11.64	7.69		
PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	31.78	33.70	15.09	30.32	101.69
2	31.76	33.65	15.08	30.19	101.41
3	31.80	33.78	15.08	30.28	101.07
AVERAGE	31.78	33.71	15.08	30.26	101.39
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	43.31	0.81	0.30	11.13	11.32
2	45.32	0.81	0.30	11.47	11.64
3	43.50	0.81	0.30	11.54	11.66
AVERAGE	44.04	0.81	0.30	11.38	11.54
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	182.01	67.06	242270	1331	3610
2	181.85	66.93	240380	1322	3590
3	182.05	67.27	243350	1337	3620
AVERAGE	181.97	67.09	242000.00	1330	3610

The units 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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