

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 Lexington

4 Inch

Date Tested: 9/15/2016

BLOCK TYPE: LW

Date Produced: 8/8/2016

BLOCK DIMENSIONS				AVERAGE THICKNESS (in)	
NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
1	15.59	3.63	7.59	WEB	1.08
	15.58	3.64	7.60	FACE	1.03
2	15.57	3.62	7.63	WEB AREA (in ² /sf)	29.91
	15.57	3.64	7.61		
3	15.58	3.64	7.59	EQUIVALENT	2.54
	15.59	3.62	7.59		
PHYSICAL PROPERTIES					
NO.	REC'D WEIGHT	SAT WEIGHT	IMMERS'D WEIGHT	DRY WEIGHT	DENSITY PCF
1	18.42	20.26	9.29	17.98	102.33
2	17.94	19.88	9.07	17.49	100.92
3	18.10	19.97	9.16	17.62	101.76
AVERAGE	18.15	20.04	9.17	17.70	101.67
NO.	MOISTURE CONTENT	VOLUME, (CU. FT.)		ABS. % Weight	ABS. PCF
		GROSS	NET		
1	19.19	0.25	0.18	12.63	12.93
2	18.73	0.25	0.17	13.67	13.80
3	20.36	0.25	0.17	13.32	13.56
AVERAGE	19.43	0.25	0.17	13.21	13.43
NO.	AVG. AREA, SQ. IN.		LOAD, (LBS)	GROSS, (PSI)	NET, (PSI)
	GROSS	NET			
1	56.64	39.99	76010	1342	1900
2	56.41	39.28	98160	1740	2500
3	56.63	39.42	90880	1605	2310
AVERAGE	56.56	39.56	88350.00	1562	2240

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

Equivalent Thickness of the blocks tested indicates a fire rating of

>1 hours based on ACI 216.1 tables.

The weight classification of the units tested is lightweight <105

Submitted By:

Jody R. Wall

Jody R. Wall, P.E.
Laboratory Manager

GOLD HILL RESEARCH AND MATERIALS LABORATORY

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