

CAROLINA STALITE COMPANY

MANUFACTURERS OF LIGHTWEIGHT AGGREGATE "STALITE"

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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 4 Inch Commercial
Date Tested: 7/22/2022 BLOCK TYPE: Lightweight
Date Produced: Not Reported Gray

| BLOCK DIMENSIONS | | | | AVERAGE THICKNESS (in) | |
|---------------------|--------------------|-------------------|-----------------|-----------------------------------|-------------|
| NO. | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | | |
| 1 | 15.60 | 3.64 | 7.62 | WEB | 1.33 |
| | 15.64 | 3.64 | 7.63 | FACE | 1.09 |
| 2 | 15.61 | 3.66 | 7.62 | WEB AREA (in ² /sf) | 36.33 |
| | 15.61 | 3.65 | 7.65 | | |
| 3 | 15.58 | 3.67 | 7.60 | EQUIVALENT | 2.51 |
| | 15.58 | 3.66 | 7.61 | | |
| PHYSICAL PROPERTIES | | | | | |
| NO. | REC'D WEIGHT | SAT WEIGHT | IMMERS'D WEIGHT | DRY WEIGHT | DENSITY PCF |
| 1 | 18.27 | 19.50 | 8.92 | 17.42 | 102.72 |
| 2 | 19.51 | 20.48 | 9.42 | 18.32 | 103.31 |
| 3 | 18.55 | 19.59 | 8.96 | 17.54 | 102.97 |
| AVERAGE | 18.77 | 19.86 | 9.10 | 17.76 | 103.00 |
| NO. | MOISTURE CONTENT | VOLUME, (CU. FT.) | | ABS. % Weight | ABS. PCF |
| | | GROSS | NET | | |
| 1 | 40.73 | 0.25 | 0.17 | 11.95 | 12.28 |
| 2 | 54.91 | 0.25 | 0.18 | 11.83 | 12.22 |
| 3 | 49.29 | 0.25 | 0.17 | 11.68 | 12.03 |
| AVERAGE | 48.31 | 0.25 | 0.17 | 11.82 | 12.18 |
| NO. | AVG. AREA, SQ. IN. | | LOAD, (LBS) | GROSS, (PSI) | NET, (PSI) |
| | GROSS | NET | | | |
| 1 | 56.71 | 38.46 | 120540 | 2125 | 3130 |
| 2 | 57.17 | 40.22 | 118200 | 2068 | 2940 |
| 3 | 57.19 | 38.73 | 117610 | 2056 | 3040 |
| AVERAGE | 57.02 | 39.14 | 118783.33 | 2083 | 3040 |

The blocks tested met ASTM C-90 specifications for the tests performed
Equivalent Thickness of the blocks tested indicates a fire rating of
<1 hour based on ACI 216.1 tables.

Submitted By:

Daniel Furr

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