

# 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 Residential  
Date Tested: 5/19/2020 BLOCK TYPE: Medium weight  
Date Produced: Not Reported Gray

| BLOCK DIMENSIONS    |                    |                   |                 | AVERAGE THICKNESS (in)            |             |
|---------------------|--------------------|-------------------|-----------------|-----------------------------------|-------------|
| NO.                 | LENGTH (IN)        | WIDTH (IN)        | HEIGHT (IN)     |                                   |             |
| 1                   | 15.59              | 7.65              | 7.67            | WEB                               | 1.06        |
|                     | 15.59              | 7.64              | 7.71            | FACE                              | 1.31        |
| 2                   | 15.60              | 7.66              | 7.70            | WEB AREA<br>(in <sup>2</sup> /sf) | 29.78       |
|                     | 15.60              | 7.66              | 7.73            |                                   |             |
| 3                   | 15.60              | 7.65              | 7.69            | EQUIVALENT                        | 3.91        |
|                     | 15.59              | 7.65              | 7.70            |                                   |             |
| PHYSICAL PROPERTIES |                    |                   |                 |                                   |             |
| NO.                 | REC'D WEIGHT       | SAT WEIGHT        | IMMERS'D WEIGHT | DRY WEIGHT                        | DENSITY PCF |
| 1                   | 31.18              | 33.73             | 16.86           | 30.31                             | 112.05      |
| 2                   | 31.45              | 33.95             | 17.00           | 30.55                             | 112.47      |
| 3                   | 31.56              | 33.94             | 17.02           | 30.68                             | 113.10      |
| AVERAGE             | 31.40              | 33.87             | 16.96           | 30.51                             | 112.54      |
| NO.                 | MOISTURE CONTENT   | VOLUME, (CU. FT.) |                 | ABS. % Weight                     | ABS. PCF    |
|                     |                    | GROSS             | NET             |                                   |             |
| 1                   | 25.57              | 0.53              | 0.27            | 11.30                             | 12.67       |
| 2                   | 26.49              | 0.53              | 0.27            | 11.12                             | 12.51       |
| 3                   | 27.14              | 0.53              | 0.27            | 10.64                             | 12.03       |
| AVERAGE             | 26.40              | 0.53              | 0.27            | 11.02                             | 12.40       |
| NO.                 | AVG. AREA, SQ. IN. |                   | LOAD, (LBS)     | GROSS, (PSI)                      | NET, (PSI)  |
|                     | GROSS              | NET               |                 |                                   |             |
| 1                   | 119.33             | 60.91             | 116610          | 977                               | 1910        |
| 2                   | 119.43             | 60.99             | 137990          | 1155                              | 2260        |
| 3                   | 119.43             | 60.98             | 142660          | 1195                              | 2340        |
| AVERAGE             | 119.39             | 60.96             | 132420.00       | 1109                              | 2170        |

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

Equivalent Thickness of the blocks tested indicates a fire rating of

1.5 hours based on ACI 216.1 tables.

GOLD HILL RESEARCH AND MATERIALS LABORATORY

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