



TEST REPORT

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Results of Tests on brick Conducted in accordance with ASTM C 67-18 Standard Test Methods for Sampling and

Testing Brick and Structural Clay Tile

08/03/2020

| | | | | |
|--------|---|----------------|-------------------|------------------------|
| Name: | Yankee Hill Brick 3705 South Coddington Avenue Lincoln , NE 68522 | Plant: | Yankee Hill Brick | *Temperature: 60 - 90F |
| Phone: | 402-770-7720 | Report Number: | 9631-23284 | *Humidity: 30% - 70% |
| Fax: | | Received Date: | 07/13/2020 | |
| | | Sampled Date: | 07/13/2020 | |
| | | Lot: | | |
| | | Product Code: | | |

Sample Description: **Capitol IS**

| | | | | | | Average | Test Date |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|------------|
| Absorption | 1 | 2 | 3 | 4 | 5 | | |
| 24 Hour Submersion in Cold Water (%) | 4.93 | 4.72 | 4.61 | 4.58 | 4.42 | 4.65 | 07/17/2020 |
| 5 Hour Submersion in Boiling Water (%) | 7.37 | 7.35 | 7.20 | 7.17 | 6.66 | 7.15 | |
| Saturation Coefficient (Ratio of 24H to 5H) | 0.67 | 0.64 | 0.64 | 0.64 | 0.66 | 0.65 | |
| Compressive Strength | 1 | 2 | 3 | 4 | 5 | Average | |
| <i>psi</i> | 15,936 | 16,185 | 17,474 | 13,813 | 15,748 | 15,831 | 07/22/2020 |
| <i>MPa</i> | 109.9 | 111.6 | 120.5 | 95.2 | 108.6 | 109.2 | |
| Efflorescence | 11 | 12 | 13 | 14 | 15 | | |
| | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | | 07/24/2020 |
| IRA (Oven Dried Method) | 6 | 7 | 8 | 9 | 10 | Average | |
| <i>g/min/30 in.²</i> | 5.0 | 2.7 | 4.1 | 3.2 | 4.4 | 3.9 | 07/23/2020 |
| Average % Void | 19.8 | | | | | | 07/20/2020 |

The brick represented by the test results shown here comply with the physical property requirements of the standards listed below:

ASTM C 216 - 19 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)

Grade: SW, MW

Michael Walker, Quality Manager

**The temperature and humidity of the Bishop Materials Laboratory is constantly kept between 60 -90F, and 30-70% RH*

The results shown above apply only to the samples tested, which are provided by the customer.

This test report shall not be reproduced except in full, without written approval of the laboratory.