



TEST REPORT

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Results of Tests on brick Conducted in accordance with ASTM C 67-16 Standard Test Methods for Sampling and

Testing Brick and Structural Clay Tile

10/18/2017

| | | | | |
|--------|--|----------------|---------------------|------------------------|
| Name: | Kansas Brick & Tile 767 U.S. 281 Hoisington , KS 67544 | Plant: | Kansas Brick & Tile | *Temperature: 60 - 90F |
| Phone: | 620-653-2157 | Report Number: | 7830-17496 | *Humidity: 30% - 70% |
| Fax: | | Received Date: | 09/26/2017 | |
| | | Sampled Date: | 09/26/2017 | |
| | | Lot: | | |
| | | Product Code: | | |

Sample Description: **550 Dark, 500 Cordova**

| | | | | | | | Test Date |
|---|------|------|------|------|------|---------|------------|
| Absorption | 1 | 2 | 3 | 4 | 5 | Average | |
| 24 Hour Submersion in Cold Water (%) | 4.44 | 4.08 | 3.77 | 3.90 | 4.20 | 4.08 | 10/10/2017 |
| 5 Hour Submersion in Boiling Water (%) | 5.65 | 5.08 | 4.60 | 5.11 | 5.19 | 5.13 | |
| Saturation Coefficient (Ratio of 24H to 5H) | 0.78 | 0.80 | 0.82 | 0.76 | 0.81 | 0.80 | |

| Compressive Strength | 1 | 2 | 3 | 4 | 5 | Average | |
|----------------------|--------|--------|--------|--------|--------|---------|------------|
| psi | 16,000 | 17,955 | 18,225 | 17,631 | 16,405 | 17,243 | 10/12/2017 |
| MPa | 110.3 | 123.8 | 125.7 | 121.6 | 113.1 | 118.9 | |

| Efflorescence | 11 | 12 | 13 | 14 | 15 | | |
|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|------------|
| | Not Effloresced | | 10/09/2017 |

| IRA (Oven Dried Method) | 6 | 7 | 8 | 9 | 10 | Average | |
|---------------------------|-----|-----|-----|-----|-----|---------|------------|
| g/min/30 in. ² | 3.9 | 3.6 | 3.9 | 4.2 | 3.9 | 3.9 | 10/09/2017 |

| Average % Void | 22.7 | | | | | | 10/09/2017 |
|----------------|------|--|--|--|--|--|------------|
|----------------|------|--|--|--|--|--|------------|

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

ASTM C 216 - 17 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)

Grade: SW, MW, with absorption alternate in section 7.1.2

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.