



**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*

07/26/2017

|        |  |                |                          |                        |
|--------|--|----------------|--------------------------|------------------------|
| Name:  | The Belden Brick Company<br>P. O. Box 430<br>Sugarcreek , OH 44681 | Plant:         | The Belden Brick Company | *Temperature: 60 - 90F |
| Phone: | 330-456-0031   | Report Number: | 7664-16943               | *Humidity: 30% - 70%   |
| Fax:   | 330-456-2694   | Received Date: | 07/07/2017               |                        |
|        |  | Sampled Date:  | 07/07/2017               |                        |
|        |  | Lot:           |                          |                        |
|        |  | Product Code:  |                          |                        |

Sample Description: **PLT 2, SHALE/FIRECLAY W/ADDITIVE REDUCED FIRE (FACE)**

|   |                 |                 |                 |                 |                 | Average        | Test Date  |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|------------|
| <b>Absorption</b>                           | <b>1</b>        | <b>2</b>        | <b>3</b>        | <b>4</b>        | <b>5</b>        |                |            |
| 24 Hour Submersion in Cold Water (%)        | 0.70            | 0.77            | 0.81            | 0.82            | 0.80            | 0.78           | 07/14/2017 |
| 5 Hour Submersion in Boiling Water (%)      | 0.99            | 0.93            | 1.00            | 0.96            | 1.02            | 0.98           |            |
| Saturation Coefficient (Ratio of 24H to 5H) | 0.71            | 0.83            | 0.81            | 0.85            | 0.78            | 0.80           |            |
| <b>Compressive Strength</b>                 | <b>1</b>        | <b>2</b>        | <b>3</b>        | <b>4</b>        | <b>5</b>        | <b>Average</b> |            |
| <i>psi</i>                                  | 15,719          | 17,374          | 15,821          | 17,967          | 19,013          | 17,179         | 07/18/2017 |
| <i>MPa</i>                                  | 108.4           | 119.8           | 109.1           | 123.9           | 131.1           | 118.4          |            |
| <b>Efflorescence</b>                        | <b>11</b>       | <b>12</b>       | <b>13</b>       | <b>14</b>       | <b>15</b>       |                |            |
|   | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced |                | 07/25/2017 |
| <b>IRA (Oven Dried Method)</b>              | <b>6</b>        | <b>7</b>        | <b>8</b>        | <b>9</b>        | <b>10</b>       | <b>Average</b> |            |
| <i>g/min/30 in.<sup>2</sup></i>             | 1.3             | 1.4             | 1.6             | 1.8             | 1.6             | 1.6            | 07/21/2017 |
| <b>Average % Void</b>                       | 21.0            |                 |                 |                 |                 |                | 07/19/2017 |

*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

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.*