

**Results of Tests on brick Conducted in accordance with C67/C67M - 23 Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile**

08/25/2023

|                |  |                |            |
|----------------|--|----------------|------------|
| Name:          | The Belden Brick Company<br>P. O. Box 430<br>Sugar creek, OH 44681 | Plant:         | Sugarcreek |
| Phone:         | 330-456-0031   | Sampled Date:  | 8/7/2023   |
| Fax:           | 330-456-2694   | Received Date: | 8/7/2023   |
| Report Number: | 11935-29707  | Fired Date:    | 8/7/2023   |
|                |  | Product Code:  |            |
|                |  | Lot Number:    |            |

Description: **PLT 6 FIRECLAY & SHALE NO ADDITIVE (FACE)**

| <b>Absorption</b>              | <b>1</b>        | <b>2</b>        | <b>3</b>        | <b>4</b>        | <b>5</b>        | <b>Average</b> | <b>Test Date</b> |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|------------------|
| 24 Hour Cold Water (%)         | 5.2             | 5.8             | 5.4             | 5.4             | 5.8             | 5.5            | 8/10/2023        |
| 5 Hour Boiling Water (%)       | 7.2             | 7.6             | 7.3             | 7.4             | 7.7             | 7.4            |                  |
| Saturation Coefficient         | 0.72            | 0.77            | 0.74            | 0.73            | 0.75            | 0.74           |                  |
| <b>Compressive Strength</b>    | <b>1</b>        | <b>2</b>        | <b>3</b>        | <b>4</b>        | <b>5</b>        | <b>Average</b> | <b>Test Date</b> |
| psi                            | 10,480          | 10,110          | 12,250          | 11,930          | 12,010          | 11,360         | 8/10/2023        |
| <b>IRA (Oven Dried Method)</b> | <b>6</b>        | <b>7</b>        | <b>8</b>        | <b>9</b>        | <b>10</b>       | <b>Average</b> | <b>Test Date</b> |
| g/min/30 in. <sup>2</sup>      | 17.5            | 12.3            | 15.8            | 14.7            | 17.4            | 15.5           | 8/21/2023        |
| <b>Efflorescence</b>           | <b>11</b>       | <b>12</b>       | <b>13</b>       | <b>14</b>       | <b>15</b>       |                | <b>Test Date</b> |
| Efflorescence Detection        | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced |                | 8/21/2023        |
| <b>Void Area</b>               | <b>1</b>        | <b>2</b>        | <b>3</b>        | <b>4</b>        | <b>5</b>        | <b>Average</b> | <b>Test Date</b> |
| Void Area (%)                  | 20              | 20              | 20              | 20              | 20              | 20             | 8/18/2023        |

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

ASTM C216 - 22 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)  
Grade: SW, MW

*Katherine Hill*  
Katherine Hill, 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.  
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