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

06/05/2018

Name: The Belden Brick Company
700 West Tuscarawas Street
Canton, OH 44702

Phone: 330-456-0031
Fax: 330-456-2694

Plant: Canton

Report Number: 8202-18699
Received Date: 04/27/2018

Sample Date: 04/27/2018

Lot: 

Product Code: 

Sample Description: **PLT 8, SHALE & FIRECLAY, FINE GRIND, NO ADDITIVE** (THIN BRICK)

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Absorption</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>05/03/2018</td>
<td>24 Hour Submersion in Cold Water (%)</td>
<td>3.88</td>
<td>4.18</td>
<td>3.59</td>
<td>3.97</td>
<td>4.96</td>
<td>4.12</td>
</tr>
<tr>
<td>05/03/2018</td>
<td>5 Hour Submersion in Boiling Water (%)</td>
<td>4.85</td>
<td>5.16</td>
<td>4.65</td>
<td>4.88</td>
<td>6.26</td>
<td>5.16</td>
</tr>
<tr>
<td>05/02/2018</td>
<td>Saturation Coefficient (Ratio of 24H to 5H)</td>
<td>0.80</td>
<td>0.81</td>
<td>0.77</td>
<td>0.81</td>
<td>0.79</td>
<td>0.80</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Efflorescence</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>05/11/2018</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td></td>
</tr>
<tr>
<td>05/02/2018</td>
<td>IRA (Oven Dried Method)</td>
<td>g/min/30 in.²</td>
<td>12.2</td>
<td>5.5</td>
<td>8.0</td>
<td>10.1</td>
</tr>
</tbody>
</table>

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

ASTM C 1088 - 17 Standard Specification for thin Veneer brick Units Made From Clay or Shale
Grade: Exterior, Interior, with absorption alternate in section 6.1.2

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*The temperature and humidity of the Bishop Materials Laboratory is constantly kept between 60 - 90°F, 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.

Michael Walker, Quality Manager