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

Report Number: 7145-15166  

Received Date: 08/25/2016  
Sampled Date: 08/25/2016  
Lot: 03-16-16  
Product Code: 03370P42612A1B3  

Sample Description: PLT 3, SHALE & FIRECLAY W/ADDITIVE (PAVER, 2-3/4")  

Absorption  

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Absorption 1</th>
<th>Absorption 2</th>
<th>Absorption 3</th>
<th>Absorption 4</th>
<th>Absorption 5</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 Hour Submersion in Cold Water (%)</td>
<td>1.54</td>
<td>1.75</td>
<td>1.67</td>
<td>1.71</td>
<td>2.19</td>
<td>1.77</td>
</tr>
<tr>
<td>5 Hour Submersion in Boiling Water (%)</td>
<td>4.75</td>
<td>4.82</td>
<td>5.06</td>
<td>4.88</td>
<td>5.45</td>
<td>4.99</td>
</tr>
<tr>
<td>Saturation Coefficient (Ratio of 24H to 5H)</td>
<td>0.32</td>
<td>0.36</td>
<td>0.33</td>
<td>0.35</td>
<td>0.40</td>
<td>0.35</td>
</tr>
</tbody>
</table>

Compressive Strength  

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Compressive Strength 1</th>
<th>Compressive Strength 2</th>
<th>Compressive Strength 3</th>
<th>Compressive Strength 4</th>
<th>Compressive Strength 5</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>psi</td>
<td>17,327</td>
<td>15,032</td>
<td>16,401</td>
<td>17,500</td>
<td>14,689</td>
<td>16,190</td>
</tr>
<tr>
<td>MPa</td>
<td>119.5</td>
<td>103.6</td>
<td>113.1</td>
<td>120.7</td>
<td>101.3</td>
<td>111.6</td>
</tr>
</tbody>
</table>

Breaking Load  

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Breaking Load 6</th>
<th>Breaking Load 7</th>
<th>Breaking Load 8</th>
<th>Breaking Load 9</th>
<th>Breaking Load 10</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>(lb/in.)</td>
<td>1,540</td>
<td>1,554</td>
<td>1,534</td>
<td>1,366</td>
<td>1,628</td>
<td>1,524</td>
</tr>
</tbody>
</table>

Efflorescence  

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Efflorescence 11</th>
<th>Efflorescence 12</th>
<th>Efflorescence 13</th>
<th>Efflorescence 14</th>
<th>Efflorescence 15</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td></td>
</tr>
</tbody>
</table>

IRA (Oven Dried Method)  

<table>
<thead>
<tr>
<th>Test Date</th>
<th>IRA (Oven Dried Method) 6</th>
<th>IRA (Oven Dried Method) 7</th>
<th>IRA (Oven Dried Method) 8</th>
<th>IRA (Oven Dried Method) 9</th>
<th>IRA (Oven Dried Method) 10</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>g/min:30 in.²</td>
<td>7.1</td>
<td>6.5</td>
<td>11.9</td>
<td>5.8</td>
<td>6.3</td>
<td>7.5</td>
</tr>
</tbody>
</table>

Abrasion Resistance  

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Abrasion Resistance 1</th>
<th>Abrasion Resistance 2</th>
<th>Abrasion Resistance 3</th>
<th>Abrasion Resistance 4</th>
<th>Abrasion Resistance 5</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</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 1272 - 16 Standard Specification for Heavy Vehicular Paving Brick  
Type: R, F  
ASTM C 902 - 15 Standard Specification for Pedestrian and Light Traffic Paving Brick  
Class: SX, MX, NX  
Type: I, II, III  

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