Results of Tests on Brick conducted in accordance with ASTM C67-12 Standard Method for Sampling and Testing Brick and Structural Clay Tile

08/23/2013

Name: Kansas Brick & Tile
767 North U.S. 281
Hoisington, KS 67544
Phone: 800-999-0480

Plant: Kansas Brick
Report Number: KBT-0006
Sampled Date: 07/09/2013
Lot: 

Product Code: 

Sample Description: 520 Dark, 500 C-Brown, 500 Cocoa

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Absorption</th>
<th>24 Hour Submersion in Cold Water (%)</th>
<th>5 Hour Submersion in Boiling Water (%)</th>
<th>Saturation Coefficient (Ratio of 24H to 5H)</th>
<th>Compressive Strength</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/18/2013</td>
<td></td>
<td>3.29 3.97 3.15 3.53 3.23</td>
<td>3.63 4.58 3.51 4.25 3.60</td>
<td>0.91 0.87 0.90 0.83 0.90</td>
<td>psi</td>
<td>11,540 14,089 16,607 11,432 13,981</td>
<td>13,530</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.91 0.87 0.90 0.83 0.90</td>
<td>79.6 97.1 114.5 78.8 96.4</td>
<td></td>
<td>MPa</td>
<td>79.6 97.1 114.5 78.8 96.4</td>
<td>93.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08/07/2013</td>
<td>Efflorescence</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td>Not Effloresced</td>
<td>IRA</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.1 2.5 2.9 3.2 2.4</td>
<td>2.6</td>
<td></td>
<td>g/min/30 in.²</td>
<td>2.1 2.5 2.9 3.2 2.4</td>
<td>2.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The brick represented by the test results shown here comply with the standards listed below:

ASTM C 216 - 12 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW, with absorption alternate in section 6.1.2

John Sanders, Ph.D., PE, Director

Gary W. Parker, Laboratory Supervisor