Results of Tests on Brick conducted in accordance with ASTM C67-14 Standard Method for Sampling and Testing
Brick and Structural Clay Tile

05/31/2016

Name: Glen-Gery Corporation
P.O. Box 340
Shoemakersville, PA 19555
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Fax: 610-562-2084

Plant: Bigler
Report Number: GGBI-0954

Received Date: 05/03/2016
Sampled Date: 04/25/2016
Lot: 0
Product Code: 71602100

Sample Description: Bigler Shale Extruded

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Absorption 24 Hour Submersion in Cold Water (%)</th>
<th>Absorption 5 Hour Submersion in Boiling Water (%)</th>
<th>Saturation Coefficient (Ratio of 24H to 5H)</th>
<th>Compressive Strength (psi)</th>
<th>Compressive Strength (MPa)</th>
<th>Efflorescence</th>
<th>IRA (Oven Dried Method)</th>
</tr>
</thead>
<tbody>
<tr>
<td>05/05/2016</td>
<td>2.29 5.26 4.71 3.82 4.81</td>
<td>3.64 7.14 6.61 5.54 6.55</td>
<td>0.63 0.74 0.71 0.69 0.73</td>
<td>7,066 6,045 7,816 5,655 9,376</td>
<td>48.7 41.7 53.9 39.0 64.6</td>
<td>Not Effloresced</td>
<td>15.1 35.0 13.2 22.4 19.4 21.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7,192 05/09/2016</td>
<td>49.6</td>
<td></td>
<td>05/18/2016</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>g/min/30 in.²</td>
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</tbody>
</table>

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

ASTM C 216 - 15 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW

ASTM C 32 - 13a Standard Specification for Sewer and Manhole Brick (Made From Clay or Shale)
Grade: SM, / MM, MS

ASTM C 62 - 13 Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW, NW

CAN/CSA-A82-06 Fired masonry brick made from clay or shale
Grade: IG, EG

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.