TEST REPORT

100 Clemson Research Blvd.
Anderson, SC 29625
(864) 656-1094
Fax: (864) 656-1095
www.bishopmaterials.com

Results of Tests on Brick conducted in accordance with ASTM C67-14 Standard Method for Sampling and Testing
Brick and Structural Clay Tile
10/29/2014

Name: Whitacre-Greer Fireproofing Company
1400 South Mahoning Avenue
Alliance, OH 44601
Phone: (330) 206-2009
Fax: 

Plant: Whitacre-Greer Fireproofing Company

Report Number: 5984-11364
Received Date: 10/16/2014
Sampled Date: 10/16/2014
Lot: 
Product Code: 

Sample Description: Shade 32

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Test</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/16/2014</td>
<td>Absorption</td>
<td>24 Hour Submersion in Cold Water (%)</td>
<td>3.31</td>
<td>4.11</td>
<td>3.79</td>
<td>3.82</td>
<td>3.62</td>
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<tr>
<td>10/16/2014</td>
<td>Absorption</td>
<td>5 Hour Submersion in Boiling Water (%)</td>
<td>4.85</td>
<td>5.78</td>
<td>5.33</td>
<td>5.41</td>
<td>5.30</td>
</tr>
<tr>
<td>10/16/2014</td>
<td>Absorption</td>
<td>Saturation Coefficient (Ratio of 24H to 5H)</td>
<td>0.68</td>
<td>0.71</td>
<td>0.71</td>
<td>0.71</td>
<td>0.68</td>
</tr>
</tbody>
</table>

*The 1 and 2 hour boiled water absorption tests are not required by the customer

<table>
<thead>
<tr>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/22/2014</td>
<td>Compressive Strength</td>
<td>psi</td>
<td>11,682</td>
<td>11,503</td>
<td>12,860</td>
<td>13,953</td>
<td>14,395</td>
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<tr>
<td>10/22/2014</td>
<td>Compressive Strength</td>
<td>MPa</td>
<td>80.5</td>
<td>79.3</td>
<td>88.7</td>
<td>96.2</td>
<td>99.2</td>
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<tr>
<td>10/24/2014</td>
<td>Breaking Load</td>
<td>(lb/in.)</td>
<td>1,598</td>
<td>1,676</td>
<td>1,916</td>
<td>1,307</td>
<td>1,839</td>
</tr>
<tr>
<td>10/24/2014</td>
<td>Abrasion Resistance</td>
<td></td>
<td>0.03</td>
<td>0.04</td>
<td>0.03</td>
<td>0.03</td>
<td>0.03</td>
</tr>
</tbody>
</table>

*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.

The brick represented by the test results shown here comply with the physical property requirements of the standards listed below:
ASTM C 1272 - 14 Standard Specification for Heavy Vehicular Paving Brick
Type: R, F

R. Parker Stroble, Quality Manager

Lab Reference: 5984.11364