



**TEST REPORT**

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

*Brick and Structural Clay Tile*

09/28/2015

Name:	Glen-Gery Corporation P.O. Box 340 Shoemakersville , PA 19555	Plant:	Bigler	*Temperature: 60 - 90F
Phone:	610-562-3076	Report Number:	GGBI-0952	*Humidity: 30% - 70%
Fax:	610-562-2084	Received Date:	09/08/2015	
		Sampled Date:	08/24/2015	
		Lot:		
		Product Code:	71606100	

Sample Description: **Bigler Clay/ Shale w/ Additives Extruded**

						Average	Test Date
<b>Absorption</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>		
24 Hour Submersion in Cold Water (%)	5.37	5.21	4.96	5.09	4.38	5.00	09/14/2015
5 Hour Submersion in Boiling Water (%)	6.58	6.31	6.07	6.29	5.31	6.11	
Saturation Coefficient (Ratio of 24H to 5H)	0.82	0.83	0.82	0.81	0.83	0.82	
<b>Compressive Strength</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>Average</b>	
<i>psi</i>	10,253	10,455	10,847	10,229	11,821	10,721	09/14/2015
<i>MPa</i>	70.7	72.1	74.8	70.5	81.5	73.9	
<b>Efflorescence</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>		
	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced		09/22/2015
<b>IRA (Oven Dried Method)</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>Average</b>	
<i>g/min/30 in.<sup>2</sup></i>	10.4	10.1	14.7	16.0	17.0	13.6	09/22/2015

**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, with absorption alternate in section 7.1.2

ASTM C 32 - 13a Standard Specification for Sewer and Manhole Brick (Made From Clay or Shale)  
Grade: SM, / MM, MS, with absorption alternate in Section 5.1

ASTM C 62 - 13 Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)  
Grade: SW, MW, NW, with absorption alternate in section 5.1.2

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.*