

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

Testing Brick and Structural Clay Tile

09/03/2013

Name:	Glen-Gery Corporation 433 S. Pottsville Pike Shoemakersville, PA 19555	Plant:	Hanley
Phone:	610-562-3076	Report Number:	GGHA-1220
Fax:	610-562-2084	Sampled Date:	05/06/2013
		Lot:	053RMDA
		Product Code:	71205100

Sample Description: **Hanley 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 (%)	1.93	2.00	2.01	2.03	2.07	2.01	07/29/2013
5 Hour Submersion in Boiling Water (%)	2.45	2.53	2.35	2.77	2.47	2.51	
Saturation Coefficient (Ratio of 24H to 5H)	0.79	0.79	0.86	0.73	0.84	0.80	
<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>	14,375	14,688	15,798	14,541	17,730	15,426	07/29/2013
<i>MPa</i>	99.1	101.3	108.9	100.3	122.2	106.4	
<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		08/06/2013
<b>IRA</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>	3.8	4.1	6.6	4.1	2.8	4.3	08/19/2013

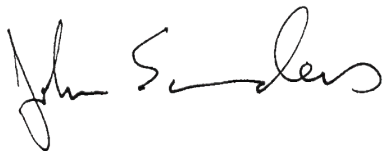
The brick represented by the test results shown here comply with the standards listed below:

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

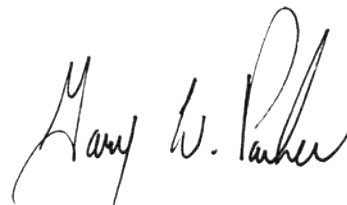
ASTM C 32 - 11 Standard Specification for Sewer and Manhole Brick (Made From Clay or Shale)  
Grade: SM, SS / MM, MS

ASTM C 62 - 12 Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)  
Grade: SW, MW, NW, with absorption alternate in section 4.2.2

CAN/CSA-A82-06 Fired masonry brick made from clay or shale  
Grade: EG, IG, with absorption alternate in section 6.2.2



John Sanders, Ph.D., PE, Director



Gary W. Parker, Laboratory Supervisor