

## TEST REPORT

*Results of Tests on brick Conducted in accordance with ASTM C67/C67M-18 Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile*  
04/28/2022

Name:	Glen-Gery Technical Services 433 South Pottsville Pike Shoemakersville, PA, 19555-0340	Plant:	Caledonia Plant			
Phone:	(p) (610) 562-3076	Sampled Date:	04/12/2022			
Report Number:	GGCLP744	Fired Date:	03/29/2022			
Description:	<b>Shale Extruded Cored</b>					
<b>Absorption</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>Average</b>
24 Hour Cold Water (%)	1.2	1.7	1.5	1.7	1.8	1.6
5 Hour Boiling Water (%)	1.9	2.4	2.3	2.5	2.6	2.3
Saturation Coefficient	0.65	0.73	0.69	0.67	0.71	0.69
<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>	12,909	13,116	10,146	12,492	10,392	11,811
<i>MPa</i>	89	90	70	86	72	81
<b>IRA (Oven Dried Method)</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>Average</b>
<i>g/min/30 in.<sup>2</sup></i>	3.8	3.4	6.8	6.1	8.1	5.6
<b>Efflorescence</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	
<i>Efflorescence Detection</i>	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	

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

- ASTM 32 - 13 Standard Specification for Sewer and Manhole Brick (Made from Clay or Shale)  
Grades: SM - SS / MM - MS
- ASTM 62 - 17 Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)  
Class: SW - MW - NW
- ASTM 216 - 19 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)  
Grades: SW - MW
- CSA - A82-14 Fired Masonry brick made from clay or shale  
Class: EG - IG



Mike Krzyzanowski  
Technical Services Manager