

## 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*  
02/14/2022

<b>Name:</b>	Glen-Gery Technical Services 433 South Pottsville Pike Shoemakersville, PA, 19555-0340	<b>Plant:</b>	Pittsburgh Plant
		<b>Sampled Date:</b>	02/02/2022
<b>Phone:</b>	(p) (610) 562-3076	<b>Fired Date:</b>	01/23/2022
<b>Report Number:</b>	GGHRP693		
<b>Description:</b>	<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 (%)	4.1	4.3	4.5	4.2	4.3	4.3
5 Hour Boiling Water (%)	6	6	6.2	6	6	6.0
Saturation Coefficient	0.69	0.71	0.72	0.71	0.71	0.71

<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>	11,900	14,464	12,740	11,307	10,564	12,195
<i>MPa</i>	82	100	88	78	73	84

<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>	11.1	15.3	13.6	11.6	15.7	13.5

<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 / 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