

## 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*  
07/14/2021

<b>Name:</b>	Glen-Gery Technical Services 433 South Pottsville Pike Shoemakersville, PA, 19555-0340	<b>Plant:</b>	Marseilles Plant
		<b>Sampled Date:</b>	06/21/2020
<b>Phone:</b>	(p) (610) 562-3076	<b>Fired Date:</b>	06/18/2020
<b>Report Number:</b>	GGMRP272		
<b>Description:</b>	<b>Clay/Shale Extruded Cored C652</b>		

<b>Absorption</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>Average</b>
<i>24 Hour Cold Water (%)</i>	5.1	4.4	5.3	5.5	4.5	5.0
<i>5 Hour Boiling Water (%)</i>	6.7	5.8	6.9	6.8	5.8	6.4
<i>Saturation Coefficient</i>	0.77	0.76	0.77	0.81	0.77	0.78
<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>	7,739	18,027	16,124	6,577	16,696	13,033
<i>MPa</i>	53	124	111	45	115	90
<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>	7.4	7.1	12	8.6	10.8	9.2
<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	
<b>Percent Void</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>Average</b>
	28	27	27	27	27	27

**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
- C652 - 19b Standard Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale)  
Grade: SW - MW  
Class: H40V
- CSA - A82-14 Fired Masonry brick made from clay or shale  
Class: EG - IG



Mike Krzyzanowski  
Technical Services Manager