

TEST REPORT

Results of Tests on brick Conducted in accordance with ASTM C 67-18 Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile ASTM C 1405 - 16 Standard Specification for Glazed Brick (Single Fired, Solid Brick Units)
12/02/2021

Name:	Glen-Gery Technical Services 433 South Pottsville Pike Shoemakersville, PA, 19555-0340	Plant:	Hanley Plant
Phone:	(p) (610) 562-3076	Sampled Date:	03/19/2021
Report Number:	GGHNP57	Fired Date:	11/20/2019
Description:	Clay Glazed Extruded Cored		

Imperviousness: For bricks 6 through 10, no stain could be seen from a distance of 5 feet on or beneath the surface.
Opacity: For bricks 1 through 3, no discoloration of the body was visible through the glaze.
Autoclave Crazing: For bricks 1 through 3, the glaze did not craze, spall, or crack.
Chemical Resistance: For bricks 4 and 5, the color of the glaze did not change.
MOHS: Specimens tested having an average MOHS Hardness of 6.

Absorption	1	2	3	4	5	Average
24 Hour Cold Water (%)	2.1	2.2	2.2	2.3	2.6	2.3
5 Hour Boiling Water (%)	2.2	2.3	2.2	2.4	2.7	2.4
Saturation Coefficient	0.97	0.97	0.97	0.96	0.98	0.97
Compressive Strength	1	2	3	4	5	Average
<i>psi</i>	34,598	27,682	31,094	25,214	24,342	28,586
<i>MPa</i>	239	191	214	174	168	197
IRA (Oven Dried Method)	1	2	3	4	5	Average
<i>g/min/30 in.²</i>	1.9	1.8	2	2.2	1.4	1.9
Efflorescence	1	2	3	4	5	
<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
- C1405 - 16 Standard Specification for Glazed Brick (Single Fired, Solid Brick Units)
Type: I
Class: Exterior



Mike Krzyzanowski
Technical Services Manager