

Results of Tests on Brick conducted in accordance with ASTM C67-12 Standard Method for Sampling and Testing Brick and Structural Clay Tile and ASTM C1405-10 Standard Specification for Glazed Brick (Single

Fired, Solid Brick Units)

04/23/2013

Name:	Glen-Gery Corporation 433 S. Pottsville Pike Shoemakersville, PA 19555	Plant:	Hanley
Phone:	610-562-3076	Report Number:	GGHA-1187
Fax:	610-562-2084	Sampled Date:	06/28/2012
		Lot:	
		Product Code:	71201104

Sample Description: **Hanley Clay Glazed Extruded**

							Test Date
Imperviousness:	For bricks 6 through 10, no stain could be seen from a distance of 5 feet on or beneath the surface.						09/10/2012
Opacity:	For bricks 1 through 3, no discoloration of the body was visible through the glaze.						09/10/2012
Autoclave Crazing:	For bricks 1 through 3, the glaze did not craze, spall, or crack.						09/10/2012
Chemical Resistance:	For bricks 4 and 5, the color of the glaze did not change.						09/10/2012
Absorption	1	2	3	4	5	Average	
24 Hour Submersion in Cold Water (%)	1.38	1.80	2.09	1.32	2.10	1.74	08/24/2012
5 Hour Submersion in Boiling Water (%)	1.62	1.97	2.23	1.52	2.26	1.92	
Saturation Coefficient (Ratio of 24H to 5H)	0.85	0.91	0.94	0.87	0.93	0.90	
Compressive Strength	1	2	3	4	5	Average	
psi	18,180	16,554	16,982	20,430	20,626	18,554	08/24/2012
MPa	125.3	114.1	117.1	140.9	142.2	127.9	
IRA	6	7	8	9	10	Average	
g/min/30 in.²	2.1	2.0	2.1	2.2	1.5	2.0	08/31/2012

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

ASTM C 1405 - 12 Standard Specification for Glazed Brick (Single Fired, Solid Brick Units)

Type: Single

Class: Class Exterior, Class Interior, with alternate in section 5.1.1

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)

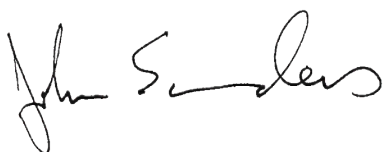
Grade: SM, SS / MM, MS, with absorption alternate in Section 3

ASTM C 62 - 12 Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)

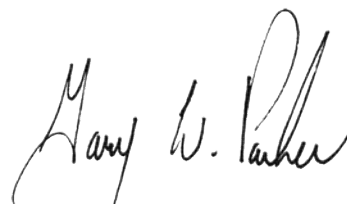
Grade: SW, MW, NW, with absorption alternate in section 4.2.2

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