

Results of Tests on Brick conducted in accordance with ASTM C67-12 Standard Method for Sampling and

Testing Brick and Structural Clay Tile

08/27/2013

Name:	Glen-Gery Corporation P.O. Box 340 Shoemakersville, PA 19555	Plant:	Bigler
Phone:	610-562-3076	Report Number:	GGBI-0886
Fax:	610-562-2084	Sampled Date:	03/21/2013
		Lot:	03310D
		Product Code:	71605102

Sample Description: **Bigler Shale w/ Additives Extruded Paver**

							Test Date
Absorption		1	2	3	4	5	Average
24 Hour Submersion in Cold Water (%)		2.31	1.95	2.13	2.13	2.16	2.14
5 Hour Submersion in Boiling Water (%)		4.31	3.47	3.71	3.67	3.70	3.77
Saturation Coefficient (Ratio of 24H to 5H)		0.54	0.56	0.57	0.58	0.58	0.57
Compressive Strength		1	2	3	4	5	Average
	<i>psi</i>	17,301	16,668	18,959	18,713	18,434	18,015
	<i>MPa</i>	119.3	114.9	130.7	129.0	127.1	124.2
Breaking Load		6	7	8	9	10	Average
	<i>(lb/in.)</i>	729	938	735	824	1,089	863
Efflorescence		11	12	13	14	15	
		Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	
							04/02/2013
IRA		6	7	8	9	10	Average
	<i>g/min/30 in.²</i>	11.4	12.4	11.5	5.0	5.8	9.2
Abrasion Resistance		1	2	3	4	5	Average
		0.01	0.01	0.01	0.01	0.01	0.01

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

ASTM C 1272 - 11 Standard Specification for Heavy Vehicular Paving Brick

Type: R

ASTM C 32 - 11 Standard Specification for Sewer and Manhole Brick (Made From Clay or Shale)

Grade: SM, SS / MM, MS

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

Grade: SW, MW, NW

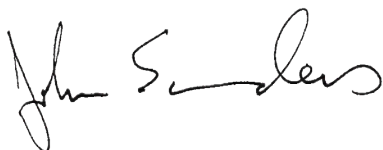
ASTM C 902 - 12 Standard Specification for Pedestrian and Light Traffic Paving Brick

Class: SX, MX, NX

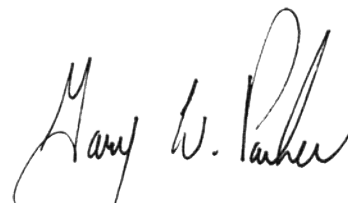
Type: I, II, III

CAN/CSA-A82-06 Fired masonry brick made from clay or shale

Grade: EG, IG



John Sanders, Ph.D., PE, Director



Gary W. Parker, Laboratory Supervisor