CLEMSON UNIVERSITY
THE BISHOP MATERIALS LABORATORY

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100 Clemson Research Blvd.
Anderson, SC 29625
(864) 656-1094
Fax: (864) 656-1095

www.bishopmaterialslab.com

AASHTO R18 ACCREDITED LABORATORY

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

06/05/2013

Name:	Glen-Gery Corporation P.O. Box 340 Shoemakersville, PA 19555	Plant:	Bigler
		Report Number:	GGBI-0885
Phone:	610-562-3076	Sampled Date:	04/18/2013
Fax:	610-562-2084	Lot:	04312D
		Product Code:	71602102

Sample Description: **Bigler Shale Extruded Paver**

							Test Date
Absorption	**1**	**2**	**3**	**4**	**5**	**Average**	
24 Hour Submersion in Cold Water (%)	3.70	3.01	3.51	2.57	4.79	3.52	04/26/2013
5 Hour Submersion in Boiling Water (%)	5.21	4.50	5.05	4.26	6.70	5.14	
Saturation Coefficient (Ratio of 24H to 5H)	0.71	0.67	0.70	0.60	0.72	0.68	
Compressive Strength	**1**	**2**	**3**	**4**	**5**	**Average**	
psi	15,691	15,287	14,742	14,343	13,605	14,733	04/26/2013
MPa	108.2	105.4	101.6	98.9	93.8	101.6	
Breaking Load	**6**	**7**	**8**	**9**	**10**	**Average**	
(lb/in.)	475	459	332	455	443	433	05/08/2013
Efflorescence	**11**	**12**	**13**	**14**	**15**		
	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced		05/06/2013
IRA	**6**	**7**	**8**	**9**	**10**	**Average**	
g/min/30 in.²	8.1	6.0	6.7	6.6	8.7	7.2	04/29/2013
Abrasion Resistance	**1**	**2**	**3**	**4**	**5**	**Average**	
	0.02	0.02	0.02	0.02	0.04	0.02	04/29/2013

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 216 - 12 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW

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