



TEST REPORT

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Results of Tests on Brick conducted in accordance with ASTM C67-14 Standard Method for Sampling and Testing

Brick and Structural Clay Tile

09/05/2016

Name:	Glen-Gery Corporation 433 S. Pottsville Pike Shoemakersville, PA 19555	Plant:	Caledonia	*Temperature: 60 - 90F
Phone:	610-562-3076	Report Number:	GGCA-1421	*Humidity: 30% - 70%
Fax:	610-562-2084	Received Date:	08/09/2016	
		Sampled Date:	08/02/2016	
		Lot:	08616DA	
		Product Code:	73202100	

Sample Description: **Caledonia Shale Extruded**

						Average	Test Date
Absorption	1	2	3	4	5		
24 Hour Submersion in Cold Water (%)	2.32	3.14	3.34	2.51	4.12	3.09	08/19/2016
5 Hour Submersion in Boiling Water (%)	3.18	4.10	4.30	3.32	5.08	4.00	
Saturation Coefficient (Ratio of 24H to 5H)	0.73	0.77	0.78	0.76	0.81	0.77	
Compressive Strength	1	2	3	4	5	Average	
<i>psi</i>	14,609	16,583	14,022	16,286	14,143	15,129	08/19/2016
<i>MPa</i>	100.7	114.3	96.7	112.3	97.5	104.3	
Efflorescence	11	12	13	14	15		
	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced		08/31/2016
IRA (Oven Dried Method)	6	7	8	9	10	Average	
<i>g/min/30 in.²</i>	8.7	8.9	6.8	9.0	6.4	8.0	08/23/2016

The brick represented by the test results shown here comply with the physical property requirements of the standards listed below:

ASTM C 216 - 15 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW, with absorption alternate in section 7.1.2

ASTM C 32 - 13 Standard Specification for Sewer and Manhole Brick (Made From Clay or Shale)
Grade: SM, SS / MM, MS

ASTM C 62 - 13a Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW, NW, with absorption alternate in section 5.1.2

CAN/CSA-A82-06 Fired masonry brick made from clay or shale
Grade: IG, EG

Michael Walker, Quality Manager

**The temperature and humidity of the Bishop Materials Laboratory is constantly kept between 60 -90F, and 30-70% RH
The results shown above apply only to the samples tested, which are provided by the customer.
This test report shall not be reproduced except in full, without written approval of the laboratory.*