



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

09/03/2015

Name:	Glen-Gery Corporation 433 South Pottsville Pike Shoemakersville , PA 19555	Plant:	Redfield	*Temperature: 60 - 90F
Phone:	610-562-3076	Report Number:	GGRF-0561	*Humidity: 30% - 70%
Fax:	610-562-2084	Received Date:	07/14/2015	
		Sampled Date:	07/07/2015	
		Lot:	07591DA	
		Product Code:	73402100	

Sample Description: **Redfield Shale Extruded**

						Average	Test Date
Absorption	1	2	3	4	5		
24 Hour Submersion in Cold Water (%)	3.60	3.52	3.82	3.93	2.26	3.43	07/23/2015
5 Hour Submersion in Boiling Water (%)	3.82	3.86	4.01	4.26	2.68	3.73	
Saturation Coefficient (Ratio of 24H to 5H)	0.94	0.91	0.95	0.92	0.84	0.91	
Compressive Strength	1	2	3	4	5	Average	
<i>psi</i>	16,238	14,458	14,775	13,250	14,852	14,715	07/27/2015
<i>MPa</i>	112.0	99.7	101.9	91.4	102.4	101.5	
Efflorescence	11	12	13	14	15		
	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced		07/30/2015
IRA (Oven Dried Method)	6	7	8	9	10	Average	
<i>g/min/30 in.²</i>	3.5	3.7	3.6	5.2	4.8	4.1	08/10/2015

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 - 13a Standard Specification for Sewer and Manhole Brick (Made From Clay or Shale)
Grade: SM, SS / MM, MS, with absorption alternate in Section 5.1

ASTM C 62 - 13 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: 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.*