

TEST REPORT
THE BISHOP MATERIALS LABORATORY

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

Testing Brick and Structural Clay Tile

01/23/2014

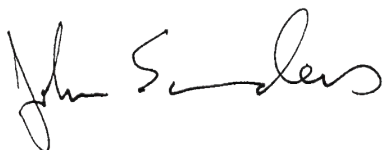
Name:	Whitacre-Greer Fireproofing Company 1400 South Mahoning Avenue Alliance, OH 44601	Plant:	Whitacre-Greer Fireproofing Company	*Temperature: 70 - 77F
Phone:	(330) 206-2009	Report Number:	WGFC-0083	*Humidity: 45% - 55%
Fax:		Received Date:	01/06/2014	
		Sampled Date:	01/06/2014	
		Lot:		
		Product Code:		

Sample Description: **2 1/4 x 9 3 Boardwalk Shade 42 Cinnamon**

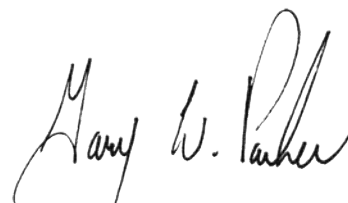
							Test Date
Absorption	1	2	3	4	5	Average	
24 Hour Submersion in Cold Water (%)	4.49	5.11	4.13	4.38	3.68	4.36	01/09/2014
5 Hour Submersion in Boiling Water (%)	6.08	6.75	5.55	5.84	5.06	5.85	
Saturation Coefficient (Ratio of 24H to 5H)	0.74	0.76	0.74	0.75	0.73	0.74	
*Measurement Uncertainty ± 0.55 %		*The 1 and 2 hour boiled water absorption tests are not required by the customer					
Compressive Strength	1	2	3	4	5	Average	
<i>psi</i>	12,193	9,219	10,667	9,341	10,003	10,284	01/13/2014
<i>MPa</i>	84.1	63.6	73.5	64.4	69.0	70.9	
*Measurement Uncertainty ± 231 psi							
Breaking Load	6	7	8	9	10	Average	
<i>(lb/in.)</i>	1,974	1,464	2,024	1,722	2,036	1,844	01/16/2014
Abrasion Resistance	1	2	3	4	5	Average	
	0.04	0.06	0.04	0.05	0.04	0.04	01/16/2014

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

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



John Sanders, Ph.D., PE, Director



Gary W. Parker, Laboratory Supervisor

*This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

*The temperature and humidity of the Bishop Materials Laboratory is constantly kept between 70 - 77F, and 45-55%

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.