

TEST REPORT
THE BISHOP MATERIALS LABORATORY

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Results of Tests on Brick conducted in accordance with ASTM C67-13 Standard Method for Sampling and

Testing Brick and Structural Clay Tile

09/11/2014

Name:	The Belden Brick Company 700 West Tuscarawas Street Canton, OH 44702	Plant:	The Belden Brick Company	*Temperature: 70 - 77F
Phone:	330-456-0031	Report Number:	5836-10945	*Humidity: 45% - 55%
Fax:	330-456-2694	Received Date:	07/31/2014	
		Sampled Date:	07/31/2014	
		Lot:		
		Product Code:		

Sample Description: **PLT 8, SHALE & FIRECLAY, FINE GRIND, NO ADDITIVE**

							Test Date
Absorption	1	2	3	4	5	Average	
24 Hour Submersion in Cold Water (%)	4.10	3.71	4.24	3.85	3.91	3.96	08/20/2014
5 Hour Submersion in Boiling Water (%)	5.13	4.79	5.26	4.80	5.03	5.00	
Saturation Coefficient (Ratio of 24H to 5H)	0.80	0.77	0.81	0.80	0.78	0.79	
*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>	15,957	12,120	15,347	12,373	12,933	13,746	09/05/2014
<i>MPa</i>	110.0	83.6	105.8	85.3	89.2	94.8	
*Measurement Uncertainty ± 231 psi							
Efflorescence	11	12	13	14	15		
	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced		09/03/2014
IRA (Oven Dried Method)	6	7	8	9	10	Average	
<i>g/min/30 in.²</i>	6.8	6.6	6.0	5.4	4.7	5.9	08/13/2014
*Measurement Uncertainty ± 1.5 g/min/30 in. ²							
Average % Void	23.0						08/13/2014
*Measurement Uncertainty ± 0.5 %							
Abrasion Resistance	1	2	3	4	5	Average	
	0.03	0.03	0.03	0.03	0.03	0.03	08/13/2014

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

ASTM C 216 - 14 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW, with absorption alternate in section 6.1.2

ASTM C 902 - 14 Standard Specification for Pedestrian and Light Traffic Paving Brick
Class: SX, MX, NX, with absorption alternate in section 4.1.1.1

Type: I, II, III

**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.