



CLEMSON
UNIVERSITY
THE BISHOP MATERIALS LABORATORY



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

02/14/2017

Name:	The Belden Brick Company P. O. Box 430 Sugar creek , OH 44681	Plant:	The Belden Brick Company	*Temperature: 60 - 90F
Phone:	330-852-2424	Report Number:	7379-16028	*Humidity: 30% - 70%
Fax:	330-852-2958	Received Date:	02/02/2017	
		Sampled Date:	02/02/2017	
		Lot:		
		Product Code:		

Sample Description: **PLT 4, All Shale-Fine Grind (No Additive)**

							Test Date	
Absorption		1	2	3	4	5	Average	
24 Hour Submersion in Cold Water (%)		0.44	0.31	1.23	0.35	1.61	0.79	
5 Hour Submersion in Boiling Water (%)		0.81	0.44	3.08	0.52	3.25	1.62	
Saturation Coefficient (Ratio of 24H to 5H)		0.55	0.71	0.40	0.68	0.50	0.57	
Compressive Strength		1	2	3	4	5	Average	
	<i>psi</i>	21,332	20,360	21,807	21,619	25,016	22,027	
	<i>MPa</i>	147.1	140.4	150.4	149.1	172.5	151.9	
Efflorescence		11	12	13	14	15		
		Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	02/14/2017	
IRA (Oven Dried Method)		6	7	8	9	10	Average	
	<i>g/min/30 in.²</i>	1.1	1.3	1.7	1.7	1.9	1.5	
Average % Void		16.5						02/08/2017

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

ASTM C 216 - 16 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW

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.*