



CLEMSON
UNIVERSITY
THE BISHOP MATERIALS LABORATORY

TEST REPORT

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Results of Tests on brick Conducted in accordance with ASTM C 67-18 Standard Test Methods for Sampling and

Testing Brick and Structural Clay Tile

10/16/2019

Name:	The Belden Brick Company 700 West Tuscarawas Street Canton , OH 44702	Plant:	Canton	*Temperature: 60 - 90F
Phone:	330-456-0031	Report Number:	9139-21668	*Humidity: 30% - 70%
Fax:	330-456-2694	Received Date:	09/27/2019	
		Sampled Date:	09/27/2019	
		Lot:	6-19-18	
		Product Code:		

Sample Description: **PLT 6, ALL SHALE W/ADDITIVE**

							Test Date	
Absorption		1	2	3	4	5	Average	
24 Hour Submersion in Cold Water (%)		4.03	3.65	3.80	2.76	3.32	3.51	
5 Hour Submersion in Boiling Water (%)		5.92	5.75	6.06	3.93	4.85	5.30	
Saturation Coefficient (Ratio of 24H to 5H)		0.68	0.63	0.63	0.70	0.68	0.67	
Compressive Strength		1	2	3	4	5	Average	
	<i>psi</i>	16,561	14,270	16,547	19,451	14,721	16,310	
	<i>MPa</i>	114.2	98.4	114.1	134.1	101.5	112.5	
Efflorescence		11	12	13	14	15		
		Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	10/16/2019	
IRA (Oven Dried Method)		6	7	8	9	10	Average	
	<i>g/min/30 in.²</i>	5.3	4.2	4.1	3.8	5.4	4.6	
Average % Void		20.7						10/14/2019

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

ASTM C 216 - 17a 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.