



TEST REPORT

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Results of Tests on brick Conducted in accordance with ASTM C 67-16 Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile ASTM C 1405 - 16 Standard Specification for Glazed Brick (Single Fired, Solid

Brick Units)

05/07/2018

Name:	██████████	Plant:	██████████	*Temperature: 60 - 90F
	████████████████████	Report Number:	8188-18654	*Humidity: 30% - 70%
	████████████████████	Received Date:	04/23/2018	
Phone:	██████████	Sampled Date:	04/23/2018	
Fax:	██████████	Lot:		
		Product Code:		

Sample Description: **Covadonga Glazed Brick**

							Test Date	
Imperviousness:	For bricks 6 through 10, no stain could be seen from a distance of 5 feet on or beneath the surface.						04/26/2018	
Opacity:	For bricks 1 through 3, no discoloration of the body was visible through the glaze.						04/26/2018	
Autoclave Crazing:	For bricks 1 through 3, the glaze did not craze, spall, or crack.						04/26/2018	
Chemical Resistance:	For bricks 4 and 5, the color of the glaze did not change.						04/26/2018	
Absorption	1	2	3	4	5	Average		
24 Hour Submersion in Cold Water (%)	4.07	4.29	3.10	4.34	4.52	4.06	05/01/2018	
5 Hour Submersion in Boiling Water (%)	5.50	5.44	3.79	5.93	6.09	5.35		
Saturation Coefficient (Ratio of 24H to 5H)	0.74	0.79	0.82	0.73	0.74	0.76		
Compressive Strength	1	2	3	4	5	Average		
	<i>psi</i>	10,194	11,995	11,252	15,499	10,053	11,799	05/01/2018
	<i>MPa</i>	70.3	82.7	77.6	106.9	69.3	81.3	
Average % Void	34.9						04/30/2018	
Efflorescence	11	12	13	14	15			
	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced		05/03/2018	
IRA (Oven Dried Method)	6	7	8	9	10	Average		
	<i>g/min/30 in.²</i>	8.3	3.2	6.1	5.6	2.7	5.2	04/30/2018

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

ASTM C 1405 - 16 Standard Specification for Glazed Brick (Single Fired, Solid Brick Units)

Type: Single

Class: Class Exterior, Class Interior, with alternate in section 5.1.1

ASTM C 652 - 17a Standard Specification for Hollow Brick (Hollow Masonry Units Made From Clay or Shale)

Grade: SW, MW, with absorption alternate in section 6.1.2

Class: H40V

ASTM CAN/CSA-A82-14 Fired masonry brick made from clay or shale

Grade: IG, 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.