

**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**

12/17/2013

Name:	Pacific Clay Products Inc 14741 Lake Street Lake Elsinore, CA 92530-1609	Plant:	Pacific Clay Products	*Temperature: 70 - 77F
Phone:	951-805-4265	Report Number:	PCP-056	*Humidity: 45% - 55%
Fax:		Received Date:	12/03/2013	
		Sampled Date:	12/03/2013	
		Lot:		
		Product Code:		

Sample Description: **Burgundy**

							Test Date
<b>Absorption</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>Average</b>	
24 Hour Submersion in Cold Water (%)	0.86	1.00	0.82	0.83	1.06	0.91	12/04/2013
5 Hour Submersion in Boiling Water (%)	2.82	3.07	2.90	2.85	3.02	2.93	
Saturation Coefficient (Ratio of 24H to 5H)	0.30	0.33	0.28	0.29	0.35	0.31	
*Measurement Uncertainty ± 0.55 %		*The 1 and 2 hour boiled water absorption tests are not required by the customer					
<b>Compressive Strength</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>Average</b>	
<i>psi</i>	16,607	18,315	19,512	14,442	15,869	16,949	12/04/2013
<i>MPa</i>	114.5	126.3	134.5	99.6	109.4	116.9	
*Measurement Uncertainty ± 231 psi							
<b>Efflorescence</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>		
	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced	Not Effloresced		12/16/2013
<b>IRA (Oven Dried Method)</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>Average</b>	
<i>g/min/30 in.<sup>2</sup></i>	2.6	3.1	3.4	3.7	4.4	3.4	12/09/2013
*Measurement Uncertainty ± 1.5 g/min/30 in. <sup>2</sup>							
<b>Average % Void</b>	23.0						12/06/2013
*Measurement Uncertainty ± 0.5 %							

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

ASTM C 216 - 13 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)  
Grade: SW, MW

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.*