

**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-0053	*Humidity: 45% - 55%
Fax:		Received Date:	12/02/2013	
		Sampled Date:	12/02/2013	
		Lot:		
		Product Code:		

Sample Description: **Light Iron Spot**

						Average	Test Date
<b>Absorption</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>		
24 Hour Submersion in Cold Water (%)	3.46	5.00	4.63	4.45	4.26	4.36	12/04/2013
5 Hour Submersion in Boiling Water (%)	5.63	7.56	7.00	6.90	6.78	6.78	
Saturation Coefficient (Ratio of 24H to 5H)	0.61	0.66	0.66	0.65	0.63	0.64	
*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>	13,509	13,776	10,939	12,341	12,062	12,525	12/04/2013
<i>MPa</i>	93.1	95.0	75.4	85.1	83.2	86.4	
*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>	6.0	6.5	3.8	5.0	4.2	5.1	12/09/2013
*Measurement Uncertainty ± 1.5 g/min/30 in. <sup>2</sup>							
<b>Average % Void</b>	23.5						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.