CLEMSON UNIVERSITY
THE BISHOP MATERIALS LABORATORY

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100 Clemson Research Blvd.
Anderson, SC 29625
(864) 656-1094
Fax: (864) 656-1095

www.bishopmaterialslab.com

AASHTO R18 ACCREDITED LABORATORY

***Results of Tests on Brick conducted in accordance with ASTM C67-11 Standard Method for Sampling and Testing Brick and Structural Clay Tile***

02/22/2012

| | | | |
|---|---|---|---|
| Name: | Palmetto Brick Company<br>P. O. Box 430<br>Cheraw, SC 29520-0430 | Plant: | Palmetto Brick Company |
| | | Report Number: | PALB-0050 |
| Phone: | 843-320-1137 | Sampled Date: | 01/23/2012 |
| Fax: | 843-537-4802 | Lot: | |
| | | Product Code: | |
| Sample Description: | **.75 Greystone** | | |

| | | | | | | | Test Date |
|---|---|---|---|---|---|---|---|
| **Absorption** | **1** | **2** | **3** | **4** | **5** | **Average** | |
| *24 Hour Submersion in Cold Water (%)* | 6.12 | 6.46 | 6.56 | 6.50 | 6.03 | 6.34 | 02/01/2012 |
| *5 Hour Submersion in Boiling Water (%)* | 8.47 | 8.63 | 8.91 | 8.88 | 8.12 | 8.60 | |
| *Saturation Coefficient (Ratio of 24H to 5H)* | 0.72 | 0.75 | 0.74 | 0.73 | 0.74 | 0.74 | |
| **Compressive Strength** | **1** | **2** | **3** | **4** | **5** | **Average** | |
| ***psi*** | 14,591 | 10,591 | 12,782 | 9,757 | 13,913 | 12,327 | 02/02/2012 |
| ***MPa*** | 100.6 | 73.0 | 88.1 | 67.3 | 95.9 | 85.0 | |
| **Efflorescence** | **11** | **12** | **13** | **14** | **15** | | |
| | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | | 02/17/2012 |
| **IRA** | **6** | **7** | **8** | **9** | **10** | **Average** | |
| ***g/min/30 in.²*** | 15.6 | 20.3 | 18.7 | 17.2 | 18.1 | 18.0 | 02/02/2012 |
| **Average % Void** | 23.3 | | | | | | 02/01/2012 |

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

ASTM C 216 - 11 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW

John Sanders, Ph.D., PE, Associate Director for Operations

Gary W. Parker, Laboratory Supervisor