

# ELI, LLC

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August 1, 2016

Job No. 16-037

Columbus Brick Co.  
P.O. Box 9630  
Columbus, MS 39705

Re: Plant 2  
Brown Clear Queen Size

Gentlemen:

Tabulated below are results of laboratory tests performed at your request. These tests were performed in accordance with ASTM Designation: C-67

| Unit No.            | Dimensions |      | Compressive Strength Test |                          |       | Initial Rate of Absorption<br>(Suction in Grams per 1-Min.) |                               |                           |      |
|---------------------|------------|------|---------------------------|--------------------------|-------|---|-------------------------------|---------------------------|------|
|                     | L          | W    | Total Load<br>Lbs.        | Gross Area<br>Sq. Inches | PSI   | Unit No.  | Initial Rate of<br>Absorption | % Void                    |      |
| 1                   | 3.88       | 3.86 | 95,000                    | 14.98                    | 6,340 | 1   | 19.29                         | 29.5                      | 29.5 |
| 2                   | 3.90       | 3.83 | 91,500                    | 14.94                    | 6,120 | 2   | 20.28                         | 28.9                      | 28.9 |
| 3                   | 3.90       | 3.88 | 97,000                    | 15.13                    | 6,410 | 3   | 19.29                         | 28.3                      | 28.3 |
| 4                   | 3.83       | 3.90 | 98,000                    | 14.94                    | 6,560 | 4   | 24.67                         | 27.5                      | 27.5 |
| 5                   | 3.85       | 3.86 | 94,000                    | 14.86                    | 6,650 | 5   | 26.67                         | 28.8                      | 28.8 |
| Average of 5 Units: |            |      |                           |                          | 6,220 |   | 22.04                         | Average of 10 Units: 28.6 |      |

Per Cent Water Absorption  
24 Hour Submersion in Cold Water

Per Cent Absorption - 5 Hours  
Boiling Method

| Unit No.            | Dry Weight<br>Grams | Wet Weight<br>Grams | %<br>Absorption | Dry Weight<br>Grams | Wet Weight<br>Grams | %<br>Absorption | Sat.<br>Coeff. |
|---------------------|---------------------|---------------------|-----------------|---------------------|---------------------|-----------------|----------------|
| 1                   | 726.5               | 770.6               | 6.07            | 726.5               | 792.0               | 9.02            | .67            |
| 2                   | 737.3               | 782.1               | 6.08            | 737.3               | 802.5               | 8.84            | .69            |
| 3                   | 741.3               | 785.3               | 5.94            | 741.3               | 807.4               | 8.92            | .67            |
| 4                   | 744.2               | 789.7               | 6.11            | 744.2               | 809.8               | 8.81            | .69            |
| 5                   | 763.8               | 810.2               | 6.07            | 783.8               | 831.5               | 8.86            | .69            |
| Average of 5 Units: |                     |                     | 6.05            |                     |                     | 8.89            | .68            |

These test results meet the requirements of ASTM Designation: C-652, Grade SW

These brick are rated "Not Effloresced".

We trust that this is the information required at this time.

Yours very truly,

ENGINEERS LABORATORIES, INC.



R. Bruce Shofner

RBS/dw