

ENGINEERS LABORATORIES, INC.

231 Beasley Road, P.O. Box 9804
Jackson, MS 39286-0804

Materials & Soils Testing

Elliott R. Bowman, Jr., P.E.
(601) 956-3041, Fax: (601) 956-9960

August 23, 2012

Job No. 96-012

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

Re: Plant 1
Red Body, Clear Burn
Modular 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 Inches		Compressive Strength Test			Initial Rate of Absorption (Suction in Grams per 1-Min.)			
	L	W	Total Load Lbs.	Gross Area Sq. Inches	PSI	Unit No.	Initial Rate of Absorption	% Void	
1	3.88	3.35	110,500	13.00	8,500	1	17.15	1)23.4	6)23.1
2	3.78	3.31	118,000	12.51	9,430	2	10.99	2)23.1	7)22.9
3	3.80	3.40	122,000	12.92	9,440	3	19.65	3)22.6	8)22.3
4	3.72	3.33	120,000	12.39	9,690	4	12.49	4)23.7	9)22.1
5	3.90	3.38	118,500	13.18	8,990	5	17.40	5)22.6	10)22.1

Average of 5 Units: 9,210 15.54 Average of 10 Units: 22.8

Per Cent Water Absorption
24 Hour Submersion in Cold Water

Per Cent Absorption - 5 Hours
Boiling Method

Unit No.	Dry Weight Grams	Wet Weight Grams	% Absorption	Dry Weight Grams	Wet Weight Grams	% Absorption	Sat. Coeff.
1	769.8	812.0	5.5	769.8	833.6	8.3	.66
2	773.7	807.0	4.3	773.7	829.5	7.2	.60
3	781.9	827.8	5.9	781.9	849.1	8.6	.69
4	765.9	798.6	4.3	765.9	820.6	7.1	.61
5	767.7	813.7	6.0	767.7	834.7	8.7	.69

Average of 5 Units: 5.2 8.0 .65

These test results meet the requirements of ASTM Designation: **C-216, Grade SW, Type FBA**

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
R. Bruce Shofner

RBS/cc