

**ENGINEERS LABORATORIES, INC.**

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Materials & Soils Testing

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August 23, 2012

Job No. 96-012

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

Re: Plant 1  
Brown 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**

Uni No.	Dimensions		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	3.85	3.38	129,000	13.01	9,920	1	11.07	1)22.2	6)19.5
2	3.80	3.35	127,500	12.73	10,020	2	12.40	2)23.1	7)23.2
3	3.90	3.33	131,500	12.99	10,120	3	11.79	3)22.5	8)22.1
4	4.00	3.33	133,000	13.32	9,980	4	14.21	4)22.1	9)22.3
5	3.80	3.35	134,500	12.73	10,570	5	9.85	5)22.8	10)23.1

Average of 5 Units: 10,120 11.86 Average of 10 Units: 22.3

**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	793.3	829.2	4.5	793.3	852.9	7.5	.60
2	804.5	841.8	4.6	804.5	866.4	7.7	.60
3	774.5	807.6	4.3	774.5	830.8	7.3	.59
4	772.6	805.8	4.3	772.6	828.6	7.2	.60
5	778.8	810.5	<u>4.1</u>	778.8	833.5	<u>7.0</u>	<u>.59</u>

Average of 5 Units: 4.4 7.3 .60

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