

**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  
Red Body, Flashed  
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 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	3.90	3.45	109,000	13.46	8,100	1	16.50	1)21.7	6)23.2
2	3.80	3.45	121,500	13.11	9,270	2	12.49	2)22.7	7)21.8
3	3.75	3.43	110,000	12.75	8,630	3	16.79	3)22.1	8)22.2
4	3.78	3.38	100,000	12.78	7,820	4	15.03	4)22.4	9)22.1
5	3.78	3.38	110,000	12.78	8,600	5	18.01	5)22.3	10)22.8
Average of 5 Units:					8,480		15.76	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	795.0	842.3	5.9	795.0	866.1	8.9	.66
2	773.8	811.9	4.9	773.8	836.3	8.1	.60
3	798.6	845.2	5.8	798.6	869.2	8.8	.66
4	787.8	828.0	5.1	787.8	853.0	8.3	.61
5	811.4	851.7	5.0	811.4	878.6	8.3	.60
Average of 5 Units:			5.3			8.5	.63

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

RBS/cc