

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 2
Brown Body, Clear Burn
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**

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	3.65	2.75	108,500	10.04	10,810	1	12.40	1)19.8	6)20.2
2	3.70	2.75	105,000	10.18	10,310	2	12.36	2)19.6	7)20.0
3	3.80	2.70	101,000	10.26	9,840	3	10.41	3)20.4	8)19.9
4	3.70	2.75	105,000	10.18	10,310	4	11.96	4)19.8	9)20.2
5	3.80	2.80	100,000	10.64	9,400	5	14.74	5)20.6	10)19.3

Average of 5 Units: 10,130 12.37 Average of 10 Units: 20.0

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	778.9	814.4	4.6	778.9	837.1	7.5	.61
2	766.7	804.5	4.9	766.7	828.0	8.0	.61
3	761.1	796.4	4.6	761.1	819.8	7.7	.60
4	768.0	805.1	4.8	768.0	826.6	7.6	.63
5	750.6	790.4	<u>5.3</u>	750.6	811.5	<u>8.1</u>	<u>.65</u>

Average of 5 Units: 4.8 7.8 .62

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