

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