

ELI, LLC

359 Long Cove Drive
Madison, MS 39110

Soils & Materials Testing
elillc2016@gmail.com

Phone: (601) 956-3041
Fax: (601) 956-9960

August 1, 2016

Job No. 16-037

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

Re: Plant 1
Brown Flash 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

Unit 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	3.88	102,500	14.94	6,860	1	15.65	28.1	29.7
2	3.80	3.85	105,500	14.63	7,210	2	10.87	29.6	28.8
3	3.83	3.79	101,000	14.52	6,960	3	12.92	29.1	28.6
4	3.82	3.81	95,000	14.55	6,530	4	19.13	30.6	28.2
5	3.88	3.84	97,000	14.90	6,510	5	11.19	28.9	28.8

Average of 5 Units: 6,810 13.95 Average of 10 Units: 29.0

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	715.1	749.0	4.74	715.1	770.0	7.68	.62
2	727.8	761.4	4.62	727.8	782.1	7.46	.62
3	723.8	761.7	5.24	723.8	783.1	8.19	.64
4	715.4	747.8	4.53	715.4	770.9	7.76	.58
5	710.9	739.8	4.07	710.9	760.7	7.01	.58

Average of 5 Units: 4.64 7.62 .61

These test results meet the requirements of ASTM Designation: C-652, Grade SW

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/dw