

# ELI, LLC

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August 1, 2016

Job No. 16-037

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

Re: Plant 2  
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	3.77	3.70	86,500	13.95	6,200	1	10.14	31.2	27.5
2	3.72	3.71	82,000	13.80	5,940	2	11.67	30.6	28.3
3	3.72	3.73	90,500	13.88	6,520	3	11.35	29.4	30.1
4	3.71	3.73	95,000	13.84	6,860	4	7.11	28.8	29.4
5	3.69	3.76	92,000	13.87	6,630	5	7.71	29.1	29.1
Average of 5 Units:					<u>6,430</u>		<u>9.60</u>	Average of 10 Units: <u>29.4</u>	

Unit No.	Per Cent Water Absorption 24 Hour Submersion in Cold Water			Per Cent Absorption - 5 Hours Boiling Method			
	Dry Weight Grams	Wet Weight Grams	% Absorption	Dry Weight Grams	Wet Weight Grams	% Absorption	Sat. Coeff.
1	691.1	727.0	5.19	691.1	743.8	7.63	.68
2	696.8	731.8	5.02	696.8	749.3	7.53	.67
3	700.0	736.6	5.23	700.0	754.5	7.79	.67
4	739.8	775.8	4.87	739.8	791.9	7.04	.69
5	697.2	732.3	5.03	697.2	749.8	7.54	.67
Average of 5 Units:			<u>5.07</u>			<u>7.51</u>	<u>.68</u>

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