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August 1, 2016

Job No. 16-037

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

Re: Plant 1
Red Flash Modular

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	3.75	3.76	110,000	14.10	7,800	1	13.04	31.2	32.7
2	3.83	3.89	115,500	14.90	7,750	2	13.24	32.6	31.8
3	3.79	3.80	107,000	14.40	7,430	3	16.57	31.7	31.0
4	3.81	3.84	95,000	14.75	6,440	4	15.69	31.1	31.3
5	3.82	3.81	102,500	14.55	7,040	5	15.88	32.2	31.8
Average of 5 Units:					<u>7,290</u>		<u>14.88</u>	Average of 10 Units: <u>31.7</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	732.4	771.2	5.30	732.4	792.5	8.21	.69
2	731.6	769.6	5.29	731.6	791.1	8.13	.64
3	730.0	777.8	6.55	730.0	796.7	9.14	.72
4	727.7	776.7	6.73	727.7	796.1	9.40	.72
5	738.9	787.9	6.63	738.9	806.8	9.19	.72
Average of 5 Units:			<u>6.08</u>			<u>8.81</u>	<u>.69</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