

# 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 1  
Brown 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	3.84	3.84	107,000	14.75	7,250	1	17.81	28.7	27.2
2	3.65	3.65	105,000	13.32	7,880	2	11.12	28.4	27.8
3	3.77	3.79	100,000	14.29	7,000	3	12.58	28.1	28.0
4	3.85	3.84	103,000	14.78	6,970	4	21.85	27.8	28.3
5	3.84	3.84	116,000	14.78	7,850	5	23.23	27.1	27.3

Average of 5 Units:

7,390

17.33

Average of 10 Units: 27.9

Per Cent Water Absorption  
24 Hour Submersion in Cold Water

Unit No.	Dry Weight Grams	Wet Weight Grams	% Absorption
1	782.3	823.4	5.25
2	791.6	825.6	4.30
3	722.8	754.6	4.40
4	726.4	765.8	5.42
5	724.7	768.3	6.02

Average of 5 Units:

5.08

Per Cent Absorption - 5 Hours  
Boiling Method

Unit No.	Dry Weight Grams	Wet Weight Grams	% Absorption	Sat. Coeff.
1	782.3	846.7	8.23	.64
2	791.6	848.3	7.16	.60
3	722.8	775.2	7.25	.61
4	726.4	786.8	8.31	.65
5	724.7	788.5	8.80	.68

Average of 5 Units:

7.95

.64

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