

# *Columbus Brick Company*

MANUFACTURERS OF QUALITY BRICK SINCE 1890

This product will have two separate test reports attached.

Please contact Columbus Brick personnel  
at 662.328.4931 to verify the correct report.

**ENGINEERS LABORATORIES, INC.**

231 Beasley Road, P.O. Box 9804  
Jackson, MS 39286-0804

Materials & Soils Testing

Elliott R. Bowman, Jr., P.E.  
(601) 956-3041, Fax: (601) 956-9960

October 5, 2010

Job No. 96-012

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

Re: Plant 2  
Red Body, Clear Burn  
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 Inches		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	3.72	3.48	146,000	12.95	11,270	1	15.40	23.60
2	3.82	3.45	135,000	13.18	10,240	2	17.90	23.40
3	3.75	3.51	142,000	13.16	10,790	3	16.20	23.50
4	3.75	3.48	126,000	13.05	9,660	4	15.80	23.60
5	3.70	3.50	138,000	12.95	10,660	5	16.30	23.40
Average of 5 Units:					10,520		16.30	23.50

**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	775.1	824.1	6.32	775.1	842.3	8.66	.73
2	775.3	823.1	6.16	775.3	841.9	8.59	.72
3	794.6	846.3	6.50	794.6	864.6	8.80	.74
4	795.1	842.9	6.01	795.1	861.4	8.33	.72
5	780.8	831.4	6.48	780.8	849.1	8.74	.74
Average of 5 Units:			6.29			8.62	.73

These test results meet the requirements of ASTM Designation: **C-216, Grade SW, Type FBA**  
These brick were rated "Not Effloresced". We trust that this is the information required at this time.

Yours very truly,

ENGINEERS LABORATORIES, INC.



R. Bruce Shofner

RBS/cc

**ENGINEERS LABORATORIES, INC.**

231 Beasley Road, P.O. Box 9804  
Jackson, MS 39286-0804

Materials & Soils Testing

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

October 5, 2010

Job No. 96-012

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

Re: Plant 1  
Red Body, Clear Burn  
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 Inches		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	3.35	110,500	12.56	8,800	1	28.10	24.20
2	3.80	3.35	105,000	12.73	8,250	2	35.00	24.10
3	3.81	3.35	106,500	12.76	8,350	3	34.10	24.40
4	3.78	3.35	108,000	12.66	8,530	4	32.10	24.40
5	3.75	3.35	107,500	12.56	8,560	5	35.20	24.30
Average of 5 Units:					8,500		32.90	24.20

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	708.8	752.4	6.15	708.8	767.9	8.34	.74
2	716.5	769.8	7.43	716.5	788.2	10.00	.74
3	716.5	771.2	7.63	716.5	789.4	10.17	.75
4	721.4	775.1	7.44	721.4	794.1	10.07	.74
5	717.7	769.2	7.17	717.7	789.5	10.00	.71
Average of 5 Units:			7.16			9.72	.74

These test results meet the requirements of ASTM Designation: **C-216, Grade SW, Type FBA**  
These brick were rated "Not Effloresced". We trust that this is the information required at this time.

Yours very truly,

ENGINEERS LABORATORIES, INC.

*R. Bruce Shofner*  
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