

EAR PROTECTED DATA

3922 Delaware Avenue, Des Moines, IA 50313-2542
(515) 266-5101, Fax (515) 262-1910

To:	United Brick & Tile Division of Sioux City Brick & Tile Co Attn: Kurt Hansen PO Box 160 Adel, IA 50003	Project:	TCT005939P
		Date:	March 23, 2011
		Report #:	TCT005939P.2 rev2
		Rev. Date:	April 4, 2011
		Revision:	Corrected reported percentage of Open Area (pg 2)

Report of Tests on: Toasted Fine Art Velour Modular

Submitted by: _____

Marked: _____

Sampled: _____

Date Received: 2/28/2011

Date Tested: 3/1/2011 to 3/21/2011 By: MJ

The specimens tested are representative of the following group:

Flashed Modular Group	Badlands*	Black Hills*	Black Walnut*	Bronco Classic^	Coppertone*	Doeskin*
	Ebonite*	Fine Art*	Grand Canyon*	Gunsmoke^	Mountain Shadow*	
	Pioneer Blend^	Ponderosa^	Prairie Sunset*	Russet^	Sienna*	Tahoe^
	Toasted Fine Art*		Toasted Grand Teton*		Vintage Brown*	
	Western Black Walnut^					

* denotes various textures

^ denotes unit which will be manufactured as Solid (<25% cores) or Hollow Masonry Units (>25% cores)

The above specimen was tested in accordance with Standard Methods of Testing Brick, ASTM C67-07a, for compliance with ASTM C216-07a.

Compressive Strength

Sample No.	Width, In.	Depth, In.	Gross Area, sq in.	Gross Load, Lbs.	Compressive Strength	
					PSI	MPa
11	3.68	3.83	14.09	138,100	9800	67.57
12	3.65	3.72	13.58	209,700	15440	106.46
13	3.65	3.73	13.61	150,900	11080	76.39
14	3.67	3.55	13.03	108,500	8330	57.43
15	3.64	3.78	13.76	160,800	11690	80.60
Average	n/a	n/a	n/a	n/a	11270	77.69

Absorption

Sample No.	Cold Water Immersion 24 Hr % Absorption	% Absorption, 5 Hour Boiling	Saturation Coefficient
1	3.6	5.0	0.72
2	3.8	4.8	0.79
3	3.7	4.7	0.79
4	3.6	4.7	0.77
5	3.7	4.7	0.79
Average	3.7	4.8	0.77

This document contains technical data whose export and re-export/re-transfer is subject to control by the U.S. Department of Commerce under the Export Administration Act and the Export Administration Regulations. The Department of Commerce's prior written approval is required for the export or re-export/re-transfer of such technical information to any foreign person, foreign entity or foreign organization whether in the United States or abroad.

EAR PROTECTED DATA

3922 Delaware Avenue, Des Moines, IA 50313-2542

(515) 266-5101, Fax (515) 262-1910

ASTM Efflorescence Test

Sample No.	Sample Rating
6	Not Effloresced
7	Not Effloresced
8	Not Effloresced
9	Not Effloresced
10	Not Effloresced
Average	Not Effloresced

Initial Rate of Absorption (Suction)

Sample No.	Initial Rate of Absorption (Suction) Gain in Weight (gms) Corrected to Basis of 30 Sq. In. Flatwise Area (193.55 sq. cm)
1	2.0
2	4.0
3	2.0
4	2.0
5	2.5
Average Open Area: sq. in (sq. cm)	
6.61 (42.65)	
Percent of Gross Area:	
23.76%	

Length

Sample No.	Average Length		Deviation from Group Ave.	
	Inches	mm	Inches	mm
1	7.57	192.28	(0.04)	(1.04)
2	7.62	193.55	0.01	0.23
3	7.64	194.06	0.03	0.74
4	7.58	192.53	(0.03)	(0.79)
5	7.62	193.55	0.01	0.23
6	7.61	193.29	(0.00)	(0.03)
7	7.64	194.06	0.03	0.74
8	7.63	193.80	0.02	0.48
9	7.58	192.53	(0.03)	(0.79)
10	7.62	193.55	0.01	0.23
Group Ave	7.61	193.32	n/a	n/a

Width

Sample No.	Average Width		Deviation from Group Ave.	
	Inches	mm	Inches	mm
1	3.68	93.47	0.03	0.79
2	3.65	92.71	0.00	0.03
3	3.65	92.71	0.00	0.03
4	3.67	93.22	0.02	0.53
5	3.64	92.46	(0.01)	(0.23)
6	3.65	92.71	0.00	0.03
7	3.64	92.46	(0.01)	(0.23)
8	3.60	91.44	(0.05)	(1.24)
9	3.67	93.22	0.02	0.53
10	3.64	92.46	(0.01)	(0.23)
Group Ave	3.65	92.68	n/a	n/a

Height

Sample No.	Average Height		Deviation from Group Ave.	
	Inches	mm	Inches	mm
1	2.31	58.67	0.03	0.81
2	2.27	57.66	(0.01)	(0.20)
3	2.29	58.17	0.01	0.30
4	2.26	57.40	(0.02)	(0.46)
5	2.28	57.91	0.00	0.05
6	2.27	57.66	(0.01)	(0.20)
7	2.28	57.91	0.00	0.05
8	2.29	58.17	0.01	0.30
9	2.26	57.40	(0.02)	(0.46)
10	2.27	57.66	(0.01)	(0.20)
Group Ave	2.28	57.86	n/a	n/a

Distortion (Warpage)

Sample No.	Maximum Distortion	
	Inches	mm
1	0.03	0.79
2	0.06	1.59
3	0.06	1.59
4	0.03	0.79
5	0.03	0.79
6	0.03	0.79
7	0.06	1.59
8	0.06	1.59
9	0.06	1.59
10	0.06	1.59

Out of Square

Sample No.	Inches	mm
1	0.03	0.79
2	0.09	2.38
3	0.06	1.59
4	0.03	0.79
5	0.03	0.79
6	0.03	0.79
7	0.03	0.79
8	0.06	1.59
9	0.06	1.59
10	0.09	2.38

The above brick **comply** with the physical test requirements of ASTM C216-07a, Type FBX / Grade SW.

Respectfully submitted,
STORK Twin City Testing Corporation

MJ:lam
1 pc above



Michael D. Jordt
Senior Engineering Technician