

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.3

Report of Tests on: Beige Gray 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:

Clear Burn Modular Group	Beige Gray*	Butternut*	Castile Gray*	Charcoal Gray*	Chateau Gray*	Chestnut*
	Clear Buff*	Cocoa*	Coral Pink*	Dakota Pink*	Dakota Prairie*	Deer Valley*
	Desert Blend*^	Dunes Gray*	Elk Creek^	Gas Burn Shades*		Glacier Gray^
	Kodiak*	Marblestone Gray^		Mission Pink*	Misty Dawn^	Mojave*
	Monterey Ironspot		Morning Mist^	Oxford Gray*	Palomino^	Regency Blend*
	Santa Fe^	Sedona Ironspot	Silverstone Gray^		Sterling Gray	White Plains
	Winter Park^					

* 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	3.72	13.69	172,100	12570	86.67
12	3.69	3.77	13.91	124,300	8940	61.64
13	3.68	3.78	13.91	164,000	11790	81.29
14	3.65	3.69	13.47	147,700	10970	75.64
15	3.68	3.84	14.13	116,600	8250	56.88
Average	n/a	n/a	n/a	n/a	10500	72.42

Absorption

Sample No.	Cold Water Immersion 24 Hr % Absorption	% Absorption, 5 Hour Boiling	Saturation Coefficient
1	5.1	6.2	0.82
2	5.1	6.4	0.80
3	4.7	5.2	0.90
4	4.1	4.2	0.98
5	4.7	5.3	0.89
Average	4.7	5.5	0.88

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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	6.9
2	7.8
3	4.7
4	3.5
5	5.1
Average Open Area: sq. in (sq. cm)	
7.33 (47.29)	
Percent of Gross Area:	
73.92%	

Length

Sample No.	Average Length		Deviation from Group Ave.	
	Inches	mm	Inches	mm
1	7.68	195.07	0.04	1.09
2	7.67	194.82	0.03	0.84
3	7.62	193.55	(0.02)	(0.43)
4	7.60	193.04	(0.04)	(0.94)
5	7.63	193.80	(0.01)	(0.18)
6	7.62	193.55	(0.02)	(0.43)
7	7.62	193.55	(0.02)	(0.43)
8	7.62	193.55	(0.02)	(0.43)
9	7.63	193.80	(0.01)	(0.18)
10	7.68	195.07	0.04	1.09
Group Ave	7.64	193.98	n/a	n/a

Width

Sample No.	Average Width		Deviation from Group Ave.	
	Inches	mm	Inches	mm
1	3.68	93.47	0.00	0.05
2	3.69	93.73	0.01	0.30
3	3.68	93.47	0.00	0.05
4	3.65	92.71	(0.03)	(0.71)
5	3.68	93.47	0.00	0.05
6	3.68	93.47	0.00	0.05
7	3.68	93.47	0.00	0.05
8	3.65	92.71	(0.03)	(0.71)
9	3.68	93.47	0.00	0.05
10	3.71	94.23	0.03	0.81
Group Ave	3.68	93.42	n/a	n/a

Height

Sample No.	Average Height		Deviation from Group Ave.	
	Inches	mm	Inches	mm
1	2.29	58.17	0.00	0.00
2	2.29	58.17	0.00	0.00
3	2.29	58.17	0.00	0.00
4	2.28	57.91	(0.01)	(0.25)
5	2.29	58.17	0.00	0.00
6	2.29	58.17	0.00	0.00
7	2.29	58.17	0.00	0.00
8	2.30	58.42	0.01	0.25
9	2.28	57.91	(0.01)	(0.25)
10	2.30	58.42	0.01	0.25
Group Ave	2.29	58.17	n/a	n/a

Distortion (Warpage)

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

Out of Square

Sample No.	Inches	mm
1	0.06	1.52
2	0.06	1.59
3	0.03	0.79
4	0.06	1.59
5	0.03	0.79
6	0.06	1.59
7	0.06	1.59
8	0.06	1.59
9	0.06	1.59
10	0.03	0.79

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