

**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.6 rev2  
Revision Date: May 4, 2011  
Revision: Restored group; added designations

Report of Tests on: Cambridge 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 Mods	Amherst*	(CSW) Bradford	Brookfield	Brownstone Antique 1		Burgundy Tudor
	Cabernet Burgundy	Cambridge*	(CSW) Cambridge	Chelsea Ironspot	Countryside	Earth Blend
	(W) Flint Hills	(CSW) Hampton	Lexington*	(CSW) Old Heritage	(W) Old Plantation	Parkridge*
	(CSW) Parkridge	Redstone Antique 1	Rutile*	Smoked Tudor	(W) Smoky Mountain	
	(CSW) Stratford	Sunset Blend	Swiss Chalet 1	(CSW) Tudor	(CSW) Wellington	(W) Westport
	Yellowstone					

\* denotes various textures 1 indicates FBS  
(CSW) Charleston (HBA), Savannah (FBX), Williamsburg (HBA) textures

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	3.62	3.77	13.65	154,700	11340	78.19
12	3.62	3.77	13.65	132,000	9670	66.67
13	3.62	3.75	13.58	129,000	9500	65.50
14	3.61	3.66	13.21	154,200	11670	80.46
15	3.59	3.62	13.00	118,900	9150	63.09
Average	n/a	n/a	n/a	n/a	10270	70.78

**Absorption**

Sample No.	Cold Water Immersion 24 Hr % Absorption	% Absorption, 5 Hour Boiling	Saturation Coefficient
1	3.0	4.4	0.68
2	3.4	4.1	0.83
3	3.1	4.3	0.72
4	3.3	4.4	0.75
5	2.8	4.2	0.67
Average	3.1	4.3	0.73

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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	2.8
2	3.0
3	3.0
4	3.0
5	2.9
Average Open Area: sq. in (sq. cm)	
6.58 (42.45)	
Percent of Gross Area:	
23.82%	

**Length**

Sample No.	Average Length		Deviation from Group Ave.	
	Inches	mm	Inches	mm
1	7.65	194.31	0.01	0.15
2	7.65	194.31	0.01	0.15
3	7.64	194.06	(0.00)	(0.10)
4	7.64	194.06	(0.00)	(0.10)
5	7.65	194.31	0.01	0.15
6	7.63	193.80	(0.01)	(0.36)
7	7.66	194.56	0.02	0.41
8	7.64	194.06	(0.00)	(0.10)
9	7.64	194.06	(0.00)	(0.10)
10	7.64	194.06	(0.00)	(0.10)
Group Ave	7.64	194.16	n/a	n/a

**Width**

Sample No.	Average Width		Deviation from Group Ave.	
	Inches	mm	Inches	mm
1	3.62	91.95	0.01	0.20
2	3.62	91.95	0.01	0.20
3	3.62	91.95	0.01	0.20
4	3.61	91.69	(0.00)	(0.05)
5	3.59	91.19	(0.02)	(0.56)
6	3.62	91.95	0.01	0.20
7	3.61	91.69	(0.00)	(0.05)
8	3.61	91.69	(0.00)	(0.05)
9	3.62	91.95	0.01	0.20
10	3.60	91.44	(0.01)	(0.30)
Group Ave	3.61	91.74	n/a	n/a

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**Height**

Sample No.	Average Height		Deviation from Group Ave.	
	Inches	mm	Inches	mm
1	2.27	57.66	(0.00)	(0.03)
2	2.27	57.66	(0.00)	(0.03)
3	2.27	57.66	(0.00)	(0.03)
4	2.28	57.91	0.01	0.23
5	2.27	57.66	(0.00)	(0.03)
6	2.27	57.66	(0.00)	(0.03)
7	2.27	57.66	(0.00)	(0.03)
8	2.28	57.91	0.01	0.23
9	2.27	57.66	(0.00)	(0.03)
10	2.26	57.40	(0.01)	(0.28)
Group Ave	2.27	57.68	n/a	n/a

**Distortion (Warpage)**

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

**Out of Square**

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

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