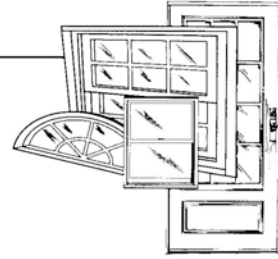


CERTIFIED TESTING LABORATORIES

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Report Number: CTLA 1479W
Report Date: April 17, 2006

STRUCTURAL PERFORMANCE TEST REPORT

Client: Enviro Brick LLC
5150 Contoura Drive
Orlando, Florida 32810-1808

Test Specifications: ASTM E72-98 (With Deviations Structural loads only) "Standard Test Methods of Conducting Strength Tests of Panels for Building Construction"

<u>Test Pressures:</u>	Specimen 1	Ultimate Load	+80.0 psf - 80.0 psf
	Specimen 2	Ultimate Load	+150.0 psf - 150.0 psf
	Specimen 3	Ultimate Load	+80.0 psf - 80.0 psf

Product Type and Series:

Specimen 1	Quick Brick Wall Unit Without Threaded Rod (48" x 96")
Specimen 2	Quick Brick Wall Unit With Threaded Rod (48" x 96")
Specimen 3	Quick Brick Wall Unit With Threaded Rod (48" x 96")

Configuration: **Specimen 1:** One fixed brick wall unit measured 48.000" wide x 96.000" high x 8.000" deep. There were a total of one hundred thirty-two bricks per each wall unit specimen with twenty-two (22) rows of six (6).
Specimen 2: One fixed brick wall unit measured 48.000" wide x 96.000" high x 8.000" deep. There were a total of one hundred thirty-two bricks per each wall unit specimen with twenty-two (22) rows of six (6).
Specimen 3: One fixed brick wall unit measured 48.000" wide x 96.000" high x 8.000" deep. There were a total of one hundred thirty-two bricks per each wall unit specimen with twenty-two (22) rows of six (6).

Daylight Opening: N/A

Handwritten signature and date:
4/18/06

Weather-stripping: N/A

Hardware & Location: N/A

Glazing:
All Specimens Bricks were secured together at the locking ridges with Liquid Nail Poly Construction Adhesive, as stated by manufacturer. Adhesive was applied approximately 3/8" bead to the top of each rib and to the protruding side of each brick and allowed to cure for 48 hours before testing.

Method of Attachment: Each specimen was secured and tested in a 2" x 12" SYP wood test buck in the following manner.

Jambs - **Specimen 1:** There were no fasteners or threaded rods utilized. Jambs were free floating

Jambs - **Specimen 2 & 3:** At each jamb location one (1) 3/8" x full length threaded bolt rod was utilized as follows. 1/2" holes were drilled in each brick top to bottom and secured at each end with a 3/8" nut and square washer. Note: The threaded rods were not secured to the wood buck but capped off at the end of each top and bottom brick. Threaded rods were used to stabilize the bricks at each jamb location and were not attached to the wood test buck in any way. Reference drawing # CTL-002.

Head and sill - **Specimens 1, 2 & 3:** At each head and sill location two (2) "L" shaped steel angles measuring 3.000" wide by 3.000" high with a 0.250" nominal wall thickness overall were utilized to secure/capture specimens to wood buck. Each steel angle was thru bolted to the wood buck with three (3) 3/8" x 2.000" machine threaded bolts with 3/8" flat washer, locks and nuts. There were no fasteners utilized through the bricks at the steel angle.

Surface Finish:
All Specimens Bronze

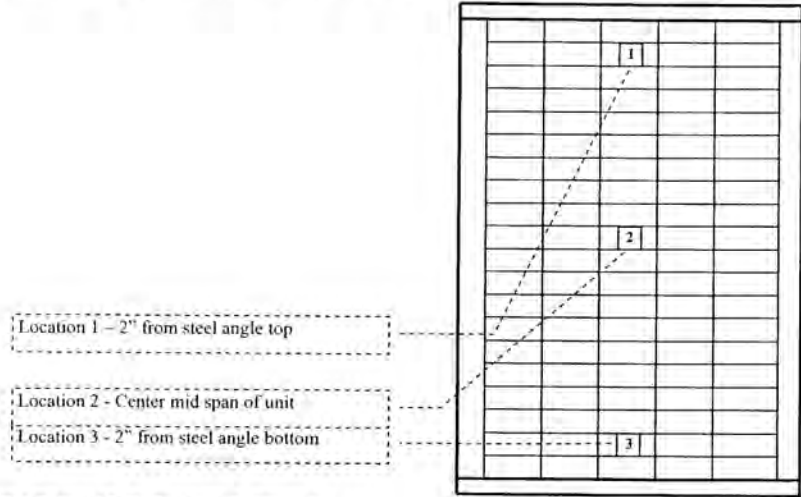
Additional Description: N/A

*has been f.e.
2/18/05*

Performance Test Results Specimen # 1

Deflection Gauges Set At Boxes 1, 2, & 3 – Measurements

were taken with three (3) Dynavision Laser indicators location #1 SN S1002136, location #2-SN S1002143 and location #3-SN S1002144



STATIC AIR PRESSURE TESTS

Specimen 1 +80.0 psf - 80.0 psf

All loads run in the negative or uplift

All loads were held for a period of 30seconds

Pressure was obtained using a New York Blower Model Pressure Blower and a Dwyer Model 621 Digital Pressure Gauge

Load (psf) Maximum Deflection at Load Permanent Deformation after load

40.0	Location 1	0.081"	0.005"
	Location 2	0.352"	0.010"
	Location 3	0.066"	0.000"

No local yielding or structural failure was witnessed at the conclusion of the test

45.0	Location 1	0.098"	0.010"
	Location 2	0.400"	0.017"
	Location 3	0.081"	0.008"

No local yielding or structural failure was witnessed at the conclusion of the test

50.0	Location 1	0.108"	0.010"
	Location 2	0.436"	0.008"
	Location 3	0.082"	0.003"

No local yielding or structural failure was witnessed at the conclusion of the test

55.0	Location 1	0.116"	0.007"
	Location 2	0.429"	0.010"
	Location 3	0.085"	0.000"

No local yielding or structural failure was witnessed at the conclusion of the test

*has [unclear] P.E.
 4/18/06*

Performance Test Results Specimen # 1 continued

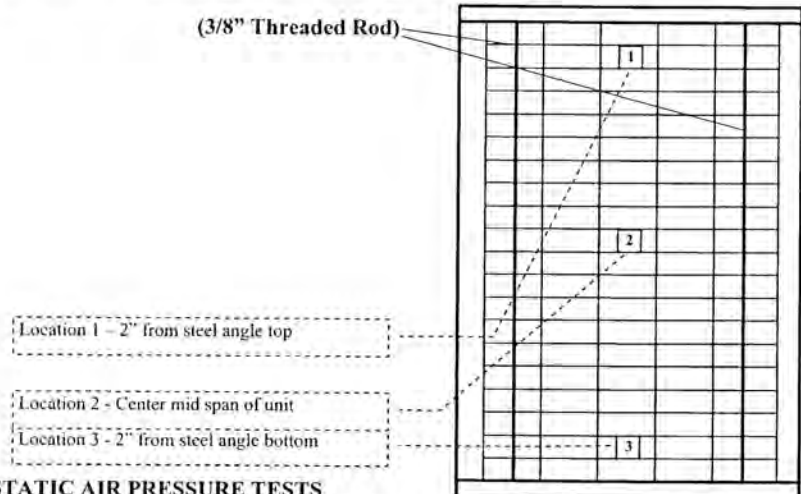
Load (psf)		Maximum Deflection at Load	Permanent Deformation after load
60.0	Location 1	0.128"	0.008"
	Location 2	0.540"	0.012"
	Location 3	0.098"	0.003"
No local yielding or structural failure was witnessed at the conclusion of the test			
65.0	Location 1	0.090"	0.000"
	Location 2	0.508"	0.000"
	Location 3	0.081"	0.000"
No local yielding or structural failure was witnessed at the conclusion of the test			
70.0	Location 1	0.134"	0.022"
	Location 2	0.605"	0.023"
	Location 3	0.108"	0.008"
No local yielding or structural failure was witnessed at the conclusion of the test			
75.0	Location 1	0.147"	0.018"
	Location 2	0.663"	0.022"
	Location 3	0.188"	0.010"
No local yielding or structural failure was witnessed at the conclusion of the test			
80.0	Location 1	0.158"	0.015"
	Location 2	0.717"	0.031"
	Location 3	0.125"	0.013"
No local yielding or structural failure was witnessed at the conclusion of the test			

has Sub P.E
 4/18/06

Performance Test Results Specimen # 2

Deflection Gauges Set At Boxes 1, 2, & 3 – Measurements

were taken with three (3) Dynavision Laser indicators location #1
 SN S1002136, location #2-SN S1002143 and location #3-SN S1002144



STATIC AIR PRESSURE TESTS

Specimen 2 +150.0 psf - 150.0 psf

All loads run in the negative or uplift

All loads were held for a period of 30seconds

Pressure was obtained using a New York Blower Model Pressure Blower and a Dwyer Model 621 Digital Pressure Gauge

Load (psf) Maximum Deflection at Load Permanent Deformation after load

50.0	Location 1	0.115"	0.020"
	Location 2	0.179"	0.023"
	Location 3	0.035"	0.005"
No local yielding or structural failure was witnessed at the conclusion of the test			
55.0	Location 1	0.147"	0.055"
	Location 2	0.227"	0.064"
	Location 3	0.041"	0.013"
No local yielding or structural failure was witnessed at the conclusion of the test			
60.0	Location 1	0.122"	0.010"
	Location 2	0.218"	0.011"
	Location 3	0.036"	0.000"
No local yielding or structural failure was witnessed at the conclusion of the test			
65.0	Location 1	0.123"	0.010"
	Location 2	0.235"	0.010"
	Location 3	0.044"	0.002"
No local yielding or structural failure was witnessed at the conclusion of the test			
70.0	Location 1	0.119"	0.011"
	Location 2	0.252"	0.009"
	Location 3	0.049"	0.003"
No local yielding or structural failure was witnessed at the conclusion of the test			

*See Table 1.E
 1/18/08*

Performance Test Results Specimen # 2 continued

Load (psf)		Maximum Deflection at Load	Permanent Deformation after load
75.0	Location 1	0.127"	0.012"
	Location 2	0.305"	0.018"
	Location 3	0.054"	0.003"
No local yielding or structural failure was witnessed at the conclusion of the test			
80.0	Location 1	0.127"	0.014"
	Location 2	0.336"	0.017"
	Location 3	0.055"	0.005"
No local yielding or structural failure was witnessed at the conclusion of the test			
85.0	Location 1	0.125"	0.010"
	Location 2	0.363"	0.010"
	Location 3	0.061"	0.003"
No local yielding or structural failure was witnessed at the conclusion of the test			
90.0	Location 1	0.129"	0.012"
	Location 2	0.418"	0.015"
	Location 3	0.069"	0.004"
No local yielding or structural failure was witnessed at the conclusion of the test			
95.0	Location 1	0.132"	0.017"
	Location 2	0.462"	0.023"
	Location 3	0.078"	0.008"
No local yielding or structural failure was witnessed at the conclusion of the test			
100.0	Location 1	0.131"	0.012"
	Location 2	0.501"	0.022"
	Location 3	0.082"	0.007"
No local yielding or structural failure was witnessed at the conclusion of the test			
105.0	Location 1	0.381"	0.072"
	Location 2	1.252"	0.210"
	Location 3	0.251"	0.111"
No local yielding or structural failure was witnessed at the conclusion of the test			
110.0	Location 1	0.354"	0.033"
	Location 2	1.168"	0.060"
	Location 3	0.164"	0.020"
No local yielding or structural failure was witnessed at the conclusion of the test			
115.0	Location 1	0.369"	0.027"
	Location 2	1.221"	0.047"
	Location 3	0.162"	0.010"
No local yielding or structural failure was witnessed at the conclusion of the test			

Res. Engr. P.E.
4/18/06

Performance Test Results Specimen # 2 continued

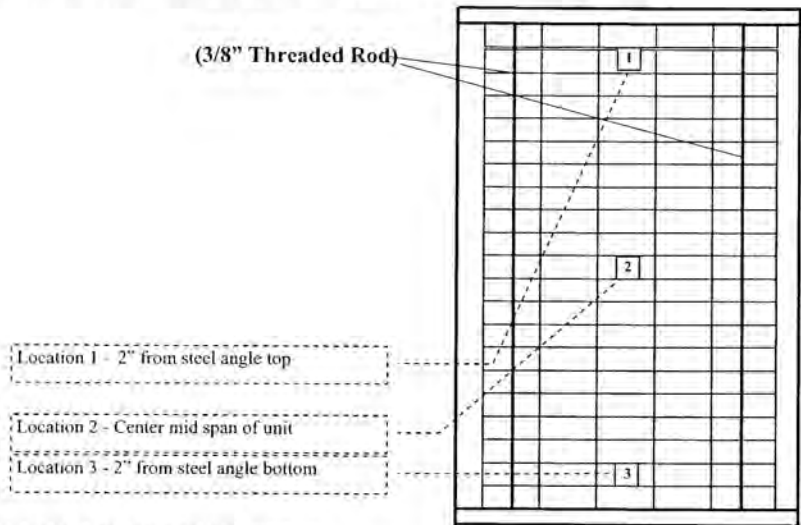
Load (psf)		Maximum Deflection at Load	Permanent Deformation after load
120.0	Location 1	0.368"	0.011"
	Location 2	1.265"	0.018"
	Location 3	0.167"	0.007"
No local yielding or structural failure was witnessed at the conclusion of the test			
125.0	Location 1	0.372"	0.015"
	Location 2	1.272"	0.024"
	Location 3	0.170"	0.006"
No local yielding or structural failure was witnessed at the conclusion of the test			
130.0	Location 1	0.377"	0.027"
	Location 2	1.335"	0.056"
	Location 3	0.180"	0.013"
No local yielding or structural failure was witnessed at the conclusion of the test			
135.0	Location 1	0.383"	0.009"
	Location 2	1.391"	0.014"
	Location 3	0.182"	0.004"
No local yielding or structural failure was witnessed at the conclusion of the test			
140.0	Location 1	0.419"	0.025"
	Location 2	1.483"	0.035"
	Location 3	0.192"	0.006"
No local yielding or structural failure was witnessed at the conclusion of the test			
145.0	Location 1	0.414"	0.023"
	Location 2	1.531"	0.041"
	Location 3	0.199"	0.009"
No local yielding or structural failure was witnessed at the conclusion of the test			
150.0	Location 1	0.416"	0.028"
	Location 2	1.591"	0.055"
	Location 3	0.207"	0.010"
No local yielding or structural failure was witnessed at the conclusion of the test			

haz sub 1.5
 4/18/06

Performance Test Results Specimen # 3

Deflection Gauges Set At Boxes 1, 2, & 3 – Measurements

were taken with three (3) Dynavision Laser indicators location #1 SN S1002136, location #2-SN S1002143 and location #3-SN S1002144



STATIC AIR PRESSURE TESTS

Specimen 3 +80.0 psf - 80.0 psf

All loads run in the negative or uplift

All loads were held for a period of 30seconds

Pressure was obtained using a New York Blower Model Pressure Blower and a Dwyer Model 621 Digital Pressure Gauge

Load (psf)		Maximum Deflection at Load	Permanent Deformation after load
40.0	Location 1	0.065"	0.003"
	Location 2	0.252"	0.008"
	Location 3	0.052"	0.000"
No local yielding or structural failure was witnessed at the conclusion of the test			
45.0	Location 1	0.072"	0.007"
	Location 2	0.275"	0.011"
	Location 3	0.059"	0.002"
No local yielding or structural failure was witnessed at the conclusion of the test			
50.0	Location 1	0.085"	0.005"
	Location 2	0.310"	0.010"
	Location 3	0.065"	0.003"
No local yielding or structural failure was witnessed at the conclusion of the test			
55.0	Location 1	0.098"	0.010"
	Location 2	0.342"	0.009"
	Location 3	0.078"	0.000"
No local yielding or structural failure was witnessed at the conclusion of the test			

*has failed.
 7/18/06*

Performance Test Results Specimen # 1 continued

Load (psf)		Maximum Deflection at Load	Permanent Deformation after load
60.0	Location 1	0.125"	0.008"
	Location 2	0.382"	0.007"
	Location 3	0.090"	0.002"
No local yielding or structural failure was witnessed at the conclusion of the test			
65.0	Location 1	0.119"	0.002"
	Location 2	0.398"	0.008"
	Location 3	0.081"	0.000"
No local yielding or structural failure was witnessed at the conclusion of the test			
70.0	Location 1	0.132"	0.012"
	Location 2	0.472"	0.017"
	Location 3	0.108"	0.009"
No local yielding or structural failure was witnessed at the conclusion of the test			
75.0	Location 1	0.156"	0.016"
	Location 2	0.510"	0.022"
	Location 3	0.162"	0.010"
No local yielding or structural failure was witnessed at the conclusion of the test			
80.0	Location 1	0.169"	0.018"
	Location 2	0.587"	0.025"
	Location 3	0.155"	0.013"
No local yielding or structural failure was witnessed at the conclusion of the test			

Test Date: February 22, 2006

Test Completion Date: March 31, 2006

Drawings to be Submitted:
CTL-001 thru CTL-002

he *Envtl. P.E.*

4/18/06

Remarks: Detail drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of Four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

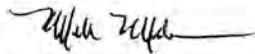
Certified Testing Laboratories, Inc.

Test witnessed by:

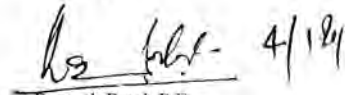
Gary Nations - CTL
Ryan Blakely - CTL

Clients Present:

Don Blalock Enviro Brick



Michael Miller
Senior Lab Tech., Architectural Division
Certified Testing Laboratories Inc.



Ramesh Patel, P.E.
Florida Reg. #20224

Cc: Enviro Brick (2)
 Ramesh Patel, (1)
 File (1)