

**Robert J. Brady, P.E.
Consulting Engineer
4185 S. W. 178th Terrace
Dunnellon, Florida 34432**

June 10, 2002

Mr. Bob Braatz, C.E.O.
Energy Saving Products, Inc.
P. O. Box 1119
Jasper, Fl 32052

Subject: Vinyl Window Products
Test Reports

Dear Mr. Braatz:

Pursuant to your request, I have reviewed reports from Architectural Testing, Inc. and Twin City Testing Corporation for performance of vinyl windows, as furnished by you.

The reports reviewed are as follows:

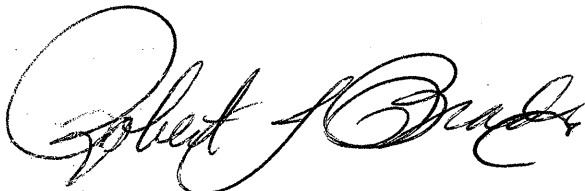
Testing Lab	Test No.	Test Date	Exp. Date	Manufacturer/Model
Arch. Testing	01-34367.01	03/04/99	03/04/03	Fiberlux, Inc./1800 6'0"x6'0" Fixed
Arch. Testing	01-39470.01	07/09/01	07/09/05	Fiberlux, Inc./1800 54x64 & 37x64 D.H.
Arch. Testing	01-39545.01	6/19/01	09/20/05	Fiberlux, Inc./1800 54x64 & 37x64 S.H.
Twin City Testing	1801 99-1359C.2	Oct. 30, 01	Oct. 30, 05	Engineered Profiles/ 5200 SGD-LC40 96x96 Sliding Door

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Based on my review, these reports are in accord with the proper and applicable building codes for testing of vinyl windows. It is my opinion that the results of these listed reports can be used for design of windows manufactured by Energy Saving Products provided that structural member profiles, glass types and window sizes and types match those described in the respective reports.

I trust this information is a proper response to your request.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert J. Brady". The signature is written in a cursive style with a large initial "R".

Robert J. Brady, P.E.
FL P.E. #26153

cc: File

rbsp611

2 3/4" Jamb Depth pw. AAMA/NWWDA 101/I.S. TEST REPORT

Rendered to:

FIBERLUX, INC.
3010 Westchester Avenue
Purchase, New York 10577Report No: 01-34367.01
Test Date: 03/04/99
Report Date: 03/12/99
Expiration Date: 03/04/03

Project Summary: Architectural Testing, Inc. (ATI) was contracted to witness tests on a Series/Model 1800, vinyl fixed window at Fiberlux, Inc.'s test facility in Holmes, New York. The specimen tested successfully met all the performance requirements for an F-C35 72 x 72 rating. A detailed test specimen description, test data and results are listed herein.

Test Procedure: The test specimen was evaluated in accordance with the following:

AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

ASTM F 588-97, *Standard Test Method for Resistance of Window Assemblies to Forced Entry Excluding Glazing.*

Test Specimen Description:

Series/Model: 1800

Type: Vinyl Fixed Window

Overall Size: 6' 0" wide by 6' 0" high

Fixed Daylight Opening Size: 5' 7" wide by 5' 7" high

Finish: All vinyl was white.

Glazing Details: The window utilized 3/4" thick insulating glass fabricated from two sheets of 1/8" clear annealed glass and a desiccant filled metal spacer system. The insulating glass was interior glazed utilizing adhesive glazing tape back bedding and held-in-place with PVC snap-in glazing beads. A glue bead was run along the interior sill and glazing bead to enhance water penetration performance. A silicone cap bead was utilized on the lower half of the exterior glazing perimeter.

Frame Construction: The frame was constructed from extruded PVC members and all corners were mitered and welded.

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
3/8" wide by 3/16" high weepslot	2	3-1/2" o.c. from ends of sill
1/4" diameter weep hole	2	Ends of glazing track draining into exterior extrusion chamber

Installation: The window was secured to the 2" x 8" test frame with screws spaced every 12" on the nail flange. The perimeter was sealed with silicone.

Test Results:

The results are tabulated as follows:

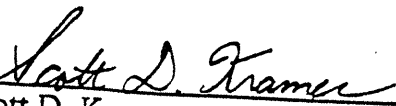
<u>Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
2.1.2	Air Infiltration per ASTM E 283 (See Note #1) @ 1.56 psf (25 mph)	<0.010cfm/ft ²	0.30 cfm/ft ² max.
<i>Note #1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.</i>			
2.1.3	Water Resistance per ASTM E 547 WTP = 2.86 psf	No leakage	No leakage
2.1.4.2	Uniform Load Structural per ASTM E 330 @ 22.50 psf (exterior) @ 22.50 psf (interior)	No damage No damage	No damage No damage

Test Results: (Continued)

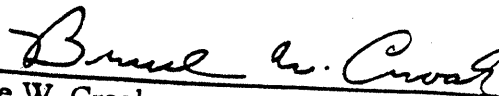
<u>Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
2.1.8	Forced Entry Resistance per ASTM F 588-97 Type: D Grade: 10 Hand & Tool Manipulation Test	No entry	No entry
<u>Optional Performance</u>			
4.3	Water Resistance per ASTM E 547 WTP = 8.25 psf	No leakage	No leakage
4.4.2	Uniform Load Structural per ASTM E 330 @ 52.50 psf (exterior) @ 52.50 psf (interior)	No damage No damage	No damage No damage

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:



Scott D. Kramer
Technician



Bruce W. Croak
Project Manager

SDK:dln
01-34367.01