



**AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY**

Rendered to:

FOUR SEASONS SUNROOMS

**SERIES/MODEL: Thermally Improved Aluminum
Picture Window**

TYPE: Aluminum Fixed Window

RATING: F-R40 72 x 49

Title of Test	Results
Overall Design Pressure	40 psf
Operating Force	N/A
Air Infiltration	<0.01 cfm/ft ²
Water Resistance	6.0 psf
Structural Test Pressure	+60.0 psf
Forced Entry Resistance	Grade 40

Reference should be made to Report No. 01-37835.02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Bill Thorr, Technician

BT:tjp



Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

FOUR SEASONS SUNROOMS
5005 Veterans Memorial Highway
Holbrook, New York 11741

Report No: 01-37835.02
Test Date: 07/31/00
Thru: 08/11/00
Report Date: 09/19/00
Expiration Date: 07/31/04

Project Summary: Architectural Testing, Inc. (ATI) was contracted to perform tests on a Series/Model thermally improved aluminum picture window. The sample tested successfully met the performance requirements for an F-R40 72 x 49 rating. Test specimen description and results are reported herein.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors*.

Test Specimen Description:

Series/Model: Thermally Improved Aluminum Picture Window

Type: Aluminum Fixed Window

Overall Size: 6' 1/4" wide by 4' 1" high

Fixed Daylight Opening Size: 5' 9-3/4" wide by 3' 10" high

Finish: All aluminum was painted.

Glazing Details: The window was glazed with a 3/4" thick sealed glass unit fabricated from two sheets of 3/16" clear tempered glass and a metal reinforced butyl spacer system. The glass was interior glazed utilizing silicone back bedding and held-in-place with a PVC snap-in glazing bead.

Frame Construction: All frame members were constructed of thermally-broken extruded aluminum. All corners were coped, butted and sealed with joint sealant and secured with two screws per corner.

Reinforcement: No reinforcement was utilized.

Installation: The test buck was fabricated using 2" x 8" #2 spruce-pine-fir fastened with 3" screws. The window was installed using blind stops for support and a bead of silicone around the exterior perimeter as a sealant.

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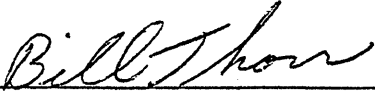
Test Results:

The results are tabulated as follows:

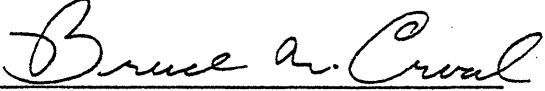
<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.1.2	Air Infiltration per ASTM E 283 (See Note #1), @ 1.57 psf (25 mph)	<0.01 cfm/ft ²	0.3 cfm/ft ² max.
<i>Note #1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.</i>			
2.1.3	Water Resistance per ASTM E 547 WTP = 6.0 psf	No leakage	No leakage
2.1.4.2	Uniform Load Structural per ASTM E 330 (Indicators located on the sill) @ +60.0 psf (exterior) @ -60.0 psf (interior)	<0.01" <0.01"	0.19" max. 0.19" max.
2.1.8	Forced Entry Resistance – ASTM F 588-97 Type: D Grade: 40 Hand and Tool Manipulation Test	No entry	No entry

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:



Bill Thorr
Technician



Bruce W. Croak
Director – Product/Physical Testing



DOCUMENT CONTROL ADDENDUM #01-37835.00

Current Issue Date: 09/19/00

Report No.: 01-37835.01

Requested by: Joe Esposito, Four Seasons Sunrooms

Purpose: AAMA/NWDA 101/I.S.2-97 testing on Series/Model Thermally Improved Aluminum Picture Window.

Issued Date: 08/24/00

Comments: Certification copy to John Smith at Associated Laboratories, Inc.

Report No.: 01-37835.02

Requested by: Joe Esposito, Four Seasons Sunrooms

Purpose: Revise Report No. 01-37835.01.

Issued Date: 09/19/00

Comments: Added Forced Entry Resistance testing to Page 2 of report.
Certification copy to John Smith at Associated Laboratories, Inc.