



Architectural Testing

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

Rendered to:

SPECIALTY WINDOWS
5520 Industrial Boulevard
Milton, Florida 32583

Report No: 07-30033.03
Test Date: 03/10/00
Report Date: 02/20/01
Expiration Date: 03/10/04

Series/Model: 1900

Type: PVC Fixed Window

Project Summary: Architectural Testing, Inc. (ATI) was contracted by Dayton Technologies to witness tests on Series/Model 190.000 Picture Window, PVC fixed window at their test facility in Monroe, Ohio. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1 F-C45 (72 x 72), Test Specimen #2 F-LC50 (72 x 60). Test specimen description and results are reported herein.

Test Specification: 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.*"

Test Specimen Description:

Test Specimen #1: F-C45 (72 x 72)

Overall Size: 71 1/2" wide by 71 1/2" high

Fixed Daylight Opening Size: 66" wide by 66" high

Glazing Detail: The fixed lite was a 3/4" thick insulating glass unit fabricated from two sheets of 3/16" thick clear annealed glass separated by a Swiggle™ spacer system.

Test Specimen #2: F-LC50 (72 x 60)

Overall Size: 71-1/2" wide by 59-1/2" high

Fixed Daylight Opening Size: 66" wide by 54" high

Glazing Details: The fixed lite was a 3/4" thick insulating glass unit fabricated from two sheets of 1/8" thick clear annealed glass separated by a Swiggle™ spacer system. The insulating glass was set from the interior against wet glazed silicone and interior vinyl snap-fit glazing beads.

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

Rendered to:

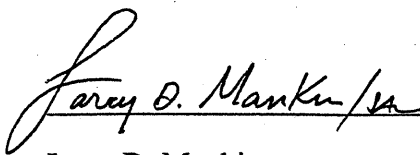
SPECIALTY WINDOWS

**SERIES/MODEL: 1900
TYPE: PVC Picture Window
RATINGS: F-C45 (72 x 72)
F-LC50 (72 x 60)**

RESULTS		
Title of Test	Test Specimen #1	Test Specimen #2
Overall Design Pressure	45.0 psf	50.0 psf
Air Infiltration	0.01 cfm/ft ²	N/A
Water Resistance	10.50 psf	10.5 psf
Structural Test Pressure	+67.5 psf	+75.0 psf
Forced Entry Resistance	Passed	N/A

Reference should be made to Report No. 07-30033.03 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.



Larry D. Mankin
Technician

LDM:ldm
07-30033.03



Test Specimen Description: (Continued)

The following applies to all specimens.

Glass Type: Clear annealed.

Finish: All PVC was white.

Frame Construction: The frame was constructed from unreinforced vinyl extrusions. All corners were mitered and welded.

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
1-1/4" by 1/4" weepslot	2	Sill face
3/8" diameter weephole	2	Glazing track
1" by 1/8" weepslot	2	Glazing track

Installation: The windows were fastened to the 2" by 10" wood test buck with #8 by 5/8" long steel screws spaced every 6" through the nail fin (total 48). The perimeter was sealed with silicone.

Test Results:

The results are tabulated as follows:

Test Specimen #1: F-C45 72 x 72

<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) @ 1.57 psf (25 mph)	0.01 cfm/ft ²	0.3 cfm/ft ² max.
<i>Note: 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 (with and without screen) WTP = 4.50 psf	No leakage	No leakage
2.1.4.2	Uniform Load Structural @ 45.0 psf (exterior) @ 45.0 psf (interior)	No damage No damage	No damage No damage



Test Results:

Test Specimen #1: F-C45 72 x 72 (Continued)

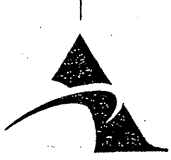
<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.1.7	Welded Corner Test Appendix A2.1.8	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance per ASTM F 588-97 Type: D Grade: 10 Hand and Tool Manipulation Test	No entry	No entry

Optional Performance

4.3	Water Resistance per ASTM E 547 WTP = 10.50 psf	No leakage	No leakage
4.4.2	Uniform Load Structural @ 67.5 psf (exterior) @ 67.5 psf (interior)	No damage No damage	No damage No damage

Test Specimen #2: F-LC50 72 x 60

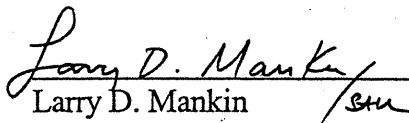
4.3	Water Resistance per ASTM E 547 WTP = 10.50 psf	No leakage	No leakage
4.4.2	Uniform Load Structural @ 75.0 psf (exterior) @ 75.0 psf (interior)	No damage No damage	No damage No damage

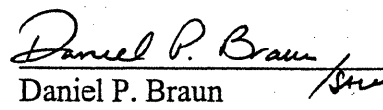


This report is reissued in the name of Specialty Windows through written authorization of Dayton Technologies to whom the original report was rendered. The original Dayton Technologies Report No. is 07-30033.01.

Detailed drawings, representative samples and a copy of this report will be retained by ATI for a period of four years. This report is the exclusive property of the client so named herein and is applicable to the sample tested. Results obtained are tested values and do not constitute an opinion or endorsement by this laboratory.

For ARCHITECTURAL TESTING, INC:


Larry D. Mankin
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Daniel P. Braun
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07-30033.03