



Architectural Testing

**AAMA/WDMA/CSA 101/LS.2/A440-08
TEST REPORT**

Rendered to:

MI WINDOWS AND DOORS, INC.

**SERIES/MODEL: 1650
PRODUCT TYPE: PVC Fixed Window (Fin)**

| Title | Summary of Results |
|----------------------------|--|
| Primary Product Designator | Class LC-PG50 1829 x 1829 (72 x 72)-FW |

A·L·I

(Validator / Operations Administrator)

**AAMA
CERTIFICATION PROGRAM**



**MI Windows & Doors, LLC
P.O. Box 370
Gratz, PA 17030-0370**

Attn: Rick Sawdey

The product described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. The approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, accompanied by related drawings.

AAMA/WDMA/CSA 101/L.S.2/A440-08 TEST REPORT

MI WINDOWS AND DOORS, INC.
P.O. Box 370
650 West Market Street
Gratz, Pennsylvania 17030-0370

Report No.: 99928.01-109-47
Test Date: 04/12/10

Project Summary: Architectural Testing, Inc. was contracted by MI Windows and Doors, Inc. to witness and validate testing on a Series/Model 1650, PVC fixed window (fin) at the

Test Specimen Description: (Continued)

[REDACTED]

[REDACTED]

[REDACTED] 7/01 4.5.2.1.2 Insulation class selected

Test Results: (Continued)

| <u>Paragraph</u> | <u>Title of Test - Test Method</u> | <u>Results</u> | <u>Allowed</u> |
|--|---|-----------------|-----------------|
| 5.3.3.2 | Water Penetration Resistance per ASTM E 547 | | See Note #2 |
| 5.3.4.2 | Uniform Load Deflection per ASTM E 330 | | See Note #2 |
| 5.3.4.3 | Uniform Load Structural per ASTM E 330 | | See Note #2 |
| <i>Note #2: The client opted to start at a pressure higher than the minimum required. Those results are listed under "Optional Performance".</i> | | | |
| 5.3.5 | Forced Entry Resistance per ASTM F 588 | | |
| | Type: D | Grade: 10 | |
| | Disassembly Test | No entry | No entry |
| | Sash/Panel Manipulation Test | No entry | No entry |
| | Lock Hardware Manipulation Test | No entry | No entry |
| 5.3.6.2 | Thermoplastic Corner Weld Test | Meets as stated | Meets as stated |

Optional Performance

| | | | |
|---------|---|--------------------------------------|----------------------------|
| 4.3.2.1 | Water Penetration Resistance per ASTM E 547 (without insect screen) 360 Pa (7.52 psf) | No leakage | No leakage |
| 4.3.2.1 | Uniform Load Deflection per ASTM E 330 (Deflections were taken on the stile) (Loads were held for 10 seconds) 2640 Pa (55.14 psf) (positive) 2640 Pa (55.14 psf) (negative) | <0.3 mm (<0.01") <0.3 mm (<0.01") | See Note #3 See Note #3 |

Note #3: The deflections reported are not limited by AAMA/WDMA/CSA 101/LS.2/A440 for

| <u>Paragraph</u> | <u>Title of Test - Test Method</u> | <u>Results</u> | <u>Allowed</u> |
|--|--|----------------|----------------|
| <u>Optional Performance:</u> (Continued) | | | |
| 4.3.2.1 | Uniform Load Structural per ASTM E 330 (Permanent sets were taken on the stile) (Loads were held for 10 seconds) | | |

3960 Pa (82.71 psf) (negative) <0.3 mm (<0.01") 0.7 mm (0.03") max.

Tape and film were not used to seal against air leakage during structural testing.

Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen reported herein.

Per the client, this product is also labeled under the following names:

Detailed drawings, data sheets, representative samples of test specimens, a copy of this report or

other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of four years from the original test date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire.

Results obtained are tested values and were secured by using the designated test methods. If test

Revision Log

| <u>Rev. #</u> | <u>Date</u> | <u>Page(s)</u> | <u>Revision(s)</u> |
|---------------|-------------|----------------|--------------------|
|---------------|-------------|----------------|--------------------|

| | | | |
|---|----------|-------|------------------|
| 0 | 02/16/10 | 57/58 | Original drawing |
|---|----------|-------|------------------|

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Appendix A
Alteration Addendum

Note: No alterations were required.

Appendix B
Test Equipment

| Instrument | Manufacturer | Asset # |
|-------------------|-----------------------------|----------------|
| Control Panel | Architectural Testing, Inc. | MI-1 |
| T | Calson | F 1602001A |

Appendix C

Drawings

Note: Complete drawings packet on file with Architectural Testing, Inc.