Architectural Testing

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

**Rendered to:**

**MI WINDOWS AND DOORS, INC.**

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

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

# Glass Load Resistance Report

## Glazing Information

Edge Supports: 4 Sides
Glazing Angle: 90°
Lite Dimensions:
Width: 67.1 in.
Height: 67.1 in.

## Project Details

Project Name:
Location:
Comments:

## Glass Construction (Rectangular)

Air Space: 0.5 in.

| | Outboard Lite | Inboard Lite |
|---|---|---|
| Glass Type: | Annealed | Annealed |
| Nominal Thickness: | 3/16 in. | 3/16 in. |

## Short Load Duration, Resistance, and Deflection Data

| | |
|---|---|
| Load (~ 3 sec.): | 55.1 psf |
| Load Resistance: | 52.3 psf |
| Approximate center of glass deflection: | 0.81 in. |

# Glass Load Resistance Report --

Tuesday, February 12, 2013

## Glazing Information

Edge Supports: 4 Sides
Glazing Angle: 90°
Lite Dimensions:
Width: 55.1 in.
Height: 55.1 in.

## Project Details

Project Name:
Location:
Comments:

## Glass Construction (Rectangular)

**Double Glazed Insulating Unit**

Air Space: 0.5 in.

[redacted]

| | | |
|---|---|---|
| Glass Type: | Annealed | Annealed |
| Nominal Thickness: | 1/8 in. | 1/8 in. |

## Short Load Duration, Resistance, and Deflection Data

| | |
|---|---|
| Load (~ 3 sec.): | 10.0 psf |
| Load Resistance: | 39.3 psf |

[redacted]

Based on your design information, the load resistance is greater than or equal to

Architectural Testing

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

Rendered to:

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

| | |
|---|---|
| Report No.: | 99927.01-109-47 |
| Test Date: | 04/12/10 |
| Report Date: | 05/04/10 |
| Test Record Retention Date: | 04/12/14 |

**Project Summary:** Architectural Testing, Inc. was contracted by MI Windows and Doors, Inc.

**Test Specimen Description**: (Continued)

**Weatherstripping:** No weatherstripping was utilized.

**Glazing Details**: The unit was glazed with a 7/8" thick sealed insulating glass fabricated

[redacted]

system. The glass was set from the interior onto a bead of silicone and secured with snap-in vinyl glazing beads.

| Paragraph | Title of Test - Test Method | Results | Allowed |
|---|---|---|---|
| 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 |

***Note #2**: The client opted to start at a pressure higher than the minimum required. Those results are listed under "Optional Performance".*

| | | | |
|---|---|---|---|
| 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 |
| 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 | | |

**Test Results:** (Continued)

| Paragraph | Title of Test - Test Method | Results | Allowed |
|---|---|---|---|

Optional Performance: (Continued)

[redacted]

4.3.2.1 Uniform Load Structural per ASTM E 330

[redacted]

| | | |
|---|---|---|
| (Loads were held for 10 seconds) | | |
| 3960 Pa (82.71 psf) (positive) | <0.3 mm (<0.01") | 3.3 mm (0.13") max. |
| 3960 Pa (82.71 psf) (negative) | <0.3 mm (<0.01") | 3.3 mm (0.13") 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:

1555 PW
1650 PW

[redacted]

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

## Revision Log

| Rev. # | Date | Page(s) | Revision(s) |
|---|---|---|---|
| 0 | 05/04/10 | N/A | Original report issue |

## Appendix A

## Alteration Addendum

*Note: No alterations were required.*

## Test Equipment

| Instrument | Manufacturer | Asset # |
|---|---|---|
| Control Panel | Architectural Testing, Inc. | MI-1 |
| Transducer | Celesco | E-1603001A |
| Transducer | Celesco | J-1705016A |
| Transducer | Celesco | J-1705014A |

## Appendix C

## Drawings

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