Architectural Testing

AAMA/NWWDA/CSA 101/I.S.2/A440-08

[redacted]

TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC.

SERIES/MODEL: 4300

PRODUCT TYPE: [redacted]

[redacted]

A·L·I

(Validator / Operations Administrator)

AAMA
CERTIFICATION PROGRAM

AUTHORIZATION FOR PRODUCT CERTIFICATION

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

Attn: Rick Sowlow

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

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.:	98665.01-109-47
Test Dates:	02/23/10
Through:	02/25/10
Report Date:	03/30/10
Test Record Retention Date:	02/25/14

Project Summary: Architectural Testing, Inc. was contracted by MI Windows and Doors, Inc. to witness and validate testing on a Series/Model 4300, single hung window (finless) at the MI Windows and Doors, Inc. test facility in Gratz, Pennsylvania. The sample tested successfully met the performance requirements for a Class R-PG30 1016 x 1981 (40 x 78)-H rating. Test specimen description and results are reported herein. The sample was provided by the client.

Test Specimen Description: (Continued)

Finish: All vinyl was white.

Frame Construction: The frame was constructed of extruded vinyl. The corners were mitered and welded. The fixed meeting rail was coped at each end and secured to the frame jambs using a custom shaped extruded vinyl clip. Each clip was secured to the fixed meeting rail with three #6 x 1-1/4" long flat head screws, and secured to the [illegible]

Drainage: A sloped sill was utilized.

Description	Quantity	Location
1/4" long by 1/2" wide weepslot	2	Glazing pocket, 1-1/4" from each end draining the glazing pocket to the hollow below
3/32" long by 1/2" wide	2 per end	Bottom rail, 2-5/8" from each end
1-5/8" wide by 1/8" tall weep notch	2	Sill, each end draining the interior sill track to the screen track
1" wide by 1/4" tall weep notch	2	Sill, each end draining the screen track

Hardware:

Description	Quantity	Location

Test Results: The temperature during testing was 22°C (71°F). The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
5.3.1	Operating Force per ASTM E 2068		
	Initiate motion	76 N (17 lbf)	Report Only
	Maintain motion	89 N (20 lbf)	135 N (35 lbf)
	Latches	9 N (2 lbf)	100 N (25 lbf)
	Locks	53 N (12 lbf)	100 N (25 lbf)
5.3.2.1	Air Leakage Resistance per ASTM E 283		
	75 Pa (1.6 psf)	1.0 L/s/m^2 (0.19 cfm/ft^2)	1.5 L/s/m^2 (0.3 cfm/ft^2) max.

***Note #1**: The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.*

5.3.3.2 Water Penetration Resistance per ASTM E 547 [illegible]

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
5.3.6.3	Deglazing Test		
	Top rail	2.5 mm (0.10")	11.4 mm (0.45")
	Bottom rail	2.8 mm (0.11")	11.4 mm (0.45")
	Left stile	2.3 mm (0.09")	11.4 mm (0.45")
	Right stile	2.0 mm (0.08")	11.4 mm (0.45")

Optional Performance

List of Official Observers:

Name	Company
Rick Sawdey	MI Windows and Doors, Inc.
Russell W. Clark	Architectural Testing, Inc.

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

[redacted]

[redacted]

Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	03/30/10	N/A	Original report issue

Appendix A

Alteration Addendum

***Note**: No alterations were required.*

Appendix B

Test Equipment

Instrument	Manufacturer	Asset #
Control Panel	Architectural Testing, Inc.	MI-1
Linear Transducer	Celesco	F1602001A

Appendix C

Drawings