

## Product Evaluation

WIN2082 | 0323

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

**Evaluation ID:** WIN-2082

**Effective Date:** March 1, 2023

**Re-evaluation Date:** October 2024

**Product Name:** Series 1650 Vinyl Double Hung Windows, Fin and Frame Installation, Non-Impact Resistant

**Manufacturer:** MI Windows & Doors, LLC  
650 West Market Street  
P.O. Box 370  
Gratz, PA 17030-0370  
(717) 365-3300

### General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 1650 Vinyl Double Hung Windows (FINLESS); X/X	LC-PG35 (40 x 72)	+35 / -50 psf
2	Series 1650 Vinyl Double Hung Windows (FINLESS); X/X	R-PG40 (36 x 74)	+40 / -50 psf
3	Series 1650 Vinyl Double Hung Windows (FINLESS); X/X	R-PG25 (38 x 77)	+30 / -30 psf

**General Description (Continued):**

System	Description	Label Rating	Design Pressure Rating
4	Series 1650 Vinyl Double Hung Windows (FIN); X/X	R-PG25 (38 x 77)	+25 / -30 psf
5	Series 1650 Vinyl Double Hung Windows (FINLESS); X/X	R-PG40 (36 x 60)	+40 / -55 psf
6	Series 1650 Vinyl Double Hung Windows (FIN); X/X	R-PG35 (36 x 60)	+35 / -50 psf

**Product Dimensions:**

System	Overall Size	Top Sash Size	Bottom Sash Size
1	40" x 72"	35-3/4" x 33-1/2"	36-1/2" x 34-1/2"
2	36" x 74"	31-15/16" x 35-9/16"	32-9/16" x 36-3/16"
3	38" x 77"	33-15/16" x 37-1/16"	34-9/16" x 37-11/16"
4	38" x 77"	33-7/8" x 37-1/8"	34-1/2" x 37-11/16"
5	36" x 60"	31-7/8" x 28-5/8"	32-5/8" x 29-3/16"
6	36" x 60"	32" x 28-5/8"	32-5/8" x 29-1/4"

**Product Identification (Certification Label on Window):**

System		
1-6	Certification Agency	AAMA
	Manufacturer's Name or Code Name	MTL-2
	Product Name	1650
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11

**Impact Resistance:**

System	Impact Resistant	Requirement
1-6	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

**Installation:**

System		
1	Type of Installation	Frame Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	No. 8 PH screws
	Fastener Location/Spacing	3" from each corner along the side jambs
	Fastener Penetration	Minimum of 1-1/2" into the wall framing

**Installation:**

System		
2	Type of Installation	Frame Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	No. 8 x 2" PH screws
	Fastener Location/Spacing	4" from each corner and one midspan along the side jambs
	Fastener Penetration	Minimum of 1-1/2" into the wall framing

**Installation:**

System		
3	Type of Installation	Frame Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	No. 8 x 2" PH screws
	Fastener Location/Spacing	4" from each corner and one midspan along the side jambs
	Fastener Penetration	Minimum of 1-1/2" into the wall framing
4	Type of Installation	Nail Fin Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	No. 6 drywall screws
	Fastener Location/Spacing	2" from each corner and 8-10" on center along the perimeter
	Fastener Penetration	Minimum of 1-1/2" into the wall framing
5	Type of Installation	Frame Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	No. 8 x 2" PH screws
	Fastener Location/Spacing	4" from each corner and one (1) at the midspan along each side jamb
	Fastener Penetration	Minimum of 1-1/2" into the wall framing
6	Type of Installation	Nail Fin Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	No. 6 screws
	Fastener Location/Spacing	2" from each corner and 8-10" on center along the perimeter
	Fastener Penetration	Minimum of 1-1/2" into the wall framing

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.