

## Product Evaluation

DR749 | 0322

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:** DR-749

**Effective Date:** March 1, 2022

**Re-evaluation Date:** November 2022

**Product Name:** Series 390HP Vinyl Sliding Glass Doors, Fin and Frame Installation, Non-Impact Resistant

**Manufacturer:** MI Windows and Doors  
650 West Market Street  
Gratz, PA 17030  
(717) 365-3300

### General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 390HP Vinyl Sliding Glass Doors (XO)	LC-PG25 (96 x 96)	+25.06 / -30.08 psf
2	Series 390HP Vinyl Sliding Glass Doors (XO)	LC-PG35 (96 x 96)	+35.09 / - 35.09 psf
3	Series 390HP Vinyl Sliding Glass Doors (OXO)	LC-PG25 (144 x 96)	+25.06 / -25.06 psf

**Product Dimensions:**

System	Overall Size	Operable Panel Size	Fixed Panel Daylight Opening Size
1	95-1/2" x 95-1/2"	49" x 93-1/4"	44-1/8" x 88-5/8"
2	96" x 96"	49" x 93-3/8"	44-1/4" x 88-5/8"
3	144" x 96"	49-5/8" x 94-1/8"	45" x 89-1/2"

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

System		
1-3	Certification agency	AAMA
	Code name	MTL-10
	Product name	390HP
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 (Sys. 1) AAMA/WDMA/CSA 101/I.S.2/A440-08 (Sys. 2, 3)

**Impact Resistance:**

System	Impact Resistant	Requirement
1-3	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

**Installation:**

**Nail Fin Installation (System 1):** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using a nailing fin. The nailing fin is secured to the wall framing using minimum No. 6 x 1-5/8" drywall screws. Locate the screws approximately 3" from each corner and spaced 8"-10" on center. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Nail Fin Installation (System 2):** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using an integral nailing fin. The nailing fin is secured to the wall framing using minimum No. 8 x 2" truss head screws spaced approximately 8" from each corner and 8" on center along the perimeter. Also, at the head, locate one (1) screw approximately 3" from each side of the mid-span. Two (2) minimum No. 8 x 3" pan head screws were used to anchor the keeper. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Frame Installation (System 2):** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using minimum No. 8 x 2" truss head screws. Along the side jambs, locate the screws approximately 6" from each corner and evenly spaced thereafter, totaling five (5) screws per jamb. Along the head and sill, locate the screws approximately 6" from each corner and evenly spaced thereafter with one screw located approximately 3" from each side of the mid-span, totaling six (6) screws per head/sill. Two (2)

minimum No. 8 x 3" pan head screws were used to anchor the keeper. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**Nail Fin Installation (System 3):** The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The window assembly is secured to the wall framing using a nailing fin. The nailing fin is secured to the wall framing with minimum No. 8 x 2" truss head screws nominally spaced approximately 9" from each corner and 9" on center along the perimeter. At the head/sill, locate one (1) screw approximately 6" from each side of the meeting stile and mullion, totaling four (4) screws per head/sill. Along the side jambs, locate one (1) screw approximately 6" from each corner and one (1) at the midspan, totaling three (3) screws per jamb. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

**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.