

Product Evaluation

DR761 | 0621

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-761

Effective Date: June 1, 2021

Re-evaluation Date: June 2025

Product Name: Flush Glazed Fiberglass Inswing and Outswing Hinged Doors with Sidelites, Non-Impact Resistant

Manufacturer: Masonite International
1955 Powis Road
West Chicago, IL 60185
(630) 584-6330

General Description:

System	Description	Design Pressure Rating
1	6'-8" Flush Glazed Inswing Door with Sidelites; Adjustable Cap Sill; OXXO	+55 / -60 psf
2	6'-8" Flush Glazed Inswing Door with Sidelites; ADA Sill; OXXO	+55 / -60 psf
3	6'-8" Flush Glazed Outswing Door with Sidelites; High Dam Aluminum Sill; OXXO	+60 / -55 psf
4	6'-8" Flush Glazed Outswing Door with Sidelites; Standard Aluminum Sill; OXXO	+60 / -55 psf
5	6'-8" Flush Glazed Outswing Door with Sidelites; High Dam Composite Sill; OXXO	+60 / -55 psf

General Description:

System	Description	Design Pressure Rating
6	8'-0" Flush Glazed Inswing Door with Sidelites; Adjustable Cap Sill; OXXO	+45 / -47 psf
7	8'-0" Flush Glazed Inswing Door with Sidelites; Adjustable Cap Sill, Surface Bolts; OXXO	+55 / -55 psf
8	8'-0" Flush Glazed Outswing Door with Sidelites; High Dam Composite Sill; OXXO	+47 / -47 psf
9	8'-0" Flush Glazed Outswing Door with Sidelites; High Dam Aluminum Sill; OXXO	+47 / -47 psf
10	8'-0" Flush Glazed Outswing Door with Sidelites; Standard Aluminum Sill; OXXO	+47 / -47 psf

Product Dimensions:

System	Overall Size	Maximum Panel Size	Fixed Panel Daylight Opening Size
1-2	148-3/4" x 81-3/4"	36-3/8" x 79"	25" x 63"
3-4	148-3/4" x 80-1/8"	36-3/8" x 79"	25" x 63"
5	148-3/4" x 80-5/8"	36-3/8" x 79"	25" x 63"
6-7	148-3/4" x 97-7/8"	36-3/8" x 95"	25" x 79"
8	148-3/4" x 97-1/8"	36-3/8" x 95"	25" x 79"
9-10	148-3/4" x 96-5/8"	36-3/8" x 95"	25" x 79"

Hardware - Hinges:**Systems 1 through 5:**

- Hinges; six required (three per door panel); Secured to the door panel with four, No. 10 x 1" screws. Secured to the door jamb with three, No. 10 x 5/8" screws and one, No. 10 x 2-1/2" screws.

Systems 6 through 10:

- Hinges; eight required (four per door panel); Secured to the door panel with four, No. 10 x 1" screws. Secured to the door jamb with three, No. 10 x 5/8" screws and one, No. 10 x 2-1/2" screws.

Hardware – Deadbolts and Locksets:**Systems 1 through 10:**

- Lockset: minimum grade 3 rating as defined by ANSI/BHMA A156.2; located on the active door panel
- Deadbolt: grade 1 rating as defined by ANSI/BHMA A156.36; located on the active door panel

Hardware – Astragal:**Systems 1 through 10:**

- Astragal Retainer Bolt; Located in the astragal at the top and bottom.

Hardware – Strike Plates:**Systems 1 through 10:**

- Strike plate – Lockset; One required; Located on the door jamb; Secured with two (2), No. 8 x 2-1/2" PFH screws.
- Strike plate – Deadbolt; One required; Located on the door jamb; Secured with two (2), No. 8 x 2-1/2" PFH screws.
- Strike plate – astragal retainer bolt; Located on the head jamb; Secured with two (2), No. 8 x 2" PFH screws.

Hardware – Surface Bolts:**System 7:**

- 8" Surface Bolts; two required; Located at the top and bottom of the active lock stile. Each secured to the door panel with four 5/16" x 1-9/16" with 10-32 bolt
- Strike plate – surface bolt; Located on the head jamb; Secured with two (2), No. 8 x 2" PFH screws.

Thresholds:

- 1.375" aluminum adjustable cap sill, inswing (System 1, 6, 7)
- 1.740" high dam aluminum sill, outswing (System 3, 9)
- 1.000" standard aluminum sill, outswing (System 4, 10)
- 1.482" aluminum high dam composite cap sill, outswing (System 5, 8)
- 0.500" ADA sill, Inswing (System 2)

Product Identification (Manufacturer Label on Door):

System		
1-5	Manufacturer's name	Masonite
	Product name	Fiberglass Flush Glazed Door Unit w/ or w/o Sidelites Inswing or Outswing Config: X, XX, OX, XO, OXO, OXXO Max. Nominal Size: 12'0" x 6'8"
	Test standards	ASTM E330-02
6-10	Manufacturer's name	Masonite
	Product name	Fiberglass Flush Glazed Door Unit w/ or w/o Sidelites Inswing or Outswing Config: X, XX, OX, XO, OXO, OXXO Max. Nominal Size: 12'0" x 8'0"
	Test standards	ASTM E330-02

Compliance: The products comply with ASTM E 330-14 as reference in the 2018 IRC and 2018 IBC.

Impact Resistance:

System	Impact Resistant	Requirement
1-10	No	Provide an impact protective system when installing the product in areas that require windborne debris.

Acceptance of Smaller Assemblies: Door assemblies with dimensions equal to or smaller than those specified are acceptable within the limitations in this report.

Sidelites: Only use sidelites with doors. Do not install sidelites individually.

Installation:

The wood wall framing members must be minimum of Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing with minimum No. 10 screws. Along the head, locate No. 10 x 2-1/2" screws approximately 6" from each corner, 3" and 6" on each side of the mullion and astragal, and one at the centerline of each door panel. Along the sill, locate No. 10 x 2" PFH screws (inswing) and No. 10 x 2-1/2" screws (outswing) approximately 6" from each corner, 3" and 6" on each side of the mullion and astragal, and one at the centerline of each door panel. Along the side jambs, locate No. 10 x 2-1/2" PFH screws approximately 6" from each corner and 14" on center. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Note: If the frame sill is secured to concrete rather than wood framing members, then a 3/16" diameter concrete anchor may be substituted for the No. 10 x 2" long screws noted above. The concrete anchor must have a minimum embedment of 1-1/4" into the concrete.

Note: An illustration of anchor location along the perimeter of the assembly is provided in drawing "Structural Performance Anchor Detail." Rev. 050217. An illustration of anchor placement on the frame and sill members is provided in Drawing "Anchor Placement Detail."

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.