

Product Evaluation

DR762 | 1222

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-762

Effective Date: December 1, 2022

Re-evaluation Date: November 2025

Product Name: Flush Glazed Fiberglass Hinged Doors with Sidelites, Wood Door Frame, Inswing and Outswing, 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" Inswing Hinged Doors w/ Sidelites, Adjustable Cap Sill; OXXO	+55 / -60 psf
2	6'-8" Outswing Hinged Doors w/ Sidelites, High Dam Aluminum Sill; OXXO	+60 / -55 psf
3	6'-8" Outswing Hinged Doors w/ Sidelites, Standard Aluminum Sill; OXXO	+60 / -55 psf
4	6'-8" Outswing Hinged Doors w/ Sidelites, High Dam Composite Sill; OXXO	+60 / -55 psf
5	8'-0" Inswing Hinged Doors w/ Sidelites, Adjustable Cap Sill; OXXO	+45 / -47 psf

General Description:

System	Description	Design Pressure Rating
6	8'-0" Outswing Hinged Doors w/ Sidelites, High Dam Composite Sill; OXXO	+47 / -47 psf
7	8'-0" Outswing Hinged Doors w/ Sidelites, High Dam Aluminum Sill; OXXO	+47 / -47 psf
8	8'-0" Outswing Hinged Doors w/ Sidelites, Standard Aluminum Sill; OXXO	+47 / -47 psf

Product Dimensions:

System	Overall Size	Panel Size	Panel Daylight Opening Size
1	148-3/4" x 81-3/4"	Active: 35-3/4" x 79" Passive: 36-3/8" x 79"	25" x 63"
2-3	148-3/4" x 80-1/8"	Active: 35-3/4" x 79" Passive: 36-3/8" x 79"	25" x 63"
4	148-3/4" x 80-5/8"	Active: 35-3/4" x 79" Passive: 36-3/8" x 79"	25" x 63"
5	148-3/4" x 97-7/8"	Active: 35-3/4" x 95" Passive: 36-3/8" x 95"	25" x 79"
6	148-3/4" x 97-1/8"	Active: 35-3/4" x 95" Passive: 36-3/8" x 95"	25" x 79"
7-8	148-3/4" x 96-5/8"	Active: 35-3/4" x 95" Passive: 36-3/8" x 95"	25" x 79"

Components and Hardware:**Hinges****Systems 1-4**

- Six (6) required (three (3) per door panel); secured to the door panel with four (4) No. 10 x 1" screws, and to the door jamb with two (2) No. 10 x 5/8" screws and two (2) No. 10 x 2-1/2" screws.

Systems 5-8

- Eight (8) required (four (4) per door panel); secured to the door panel with four (4) No. 10 x 1" screws, and to the door jamb with two (2) No. 10 x 5/8" screws and two (2) No. 10 x 2-1/2" screws.

Locksets and Deadbolts

- Kwikset Series 400 Lockset: one required; located on the active door panel
- Kwikset Series 980 Deadbolt: one required; located on the active door panel

Astragal

- Ultimate Hurricane Astragal by Endura; Extruded aluminum; 1-13/16" x 2-5/8" x 1"; Minimum 0.06" wall thickness; reinforcement inserts at top extension bolt; bottom extension bolt, deadbolt location, and latch location.
- Astragal retainer bolt: 5/16" diameter steel; minimum 1-1/4" throw; located in the astragal at the top and bottom

Strike Plates

- Lockset: one required; located on the door jamb; secured with two No. 8 x 2" PFH screws
- Deadbolt: one required; located on the door jamb; secured with two No. 8 x 2" PFH screws
- Astragal retainer bolt: located on the head jamb; secured with two No. 8 x 2" PFH screws

Thresholds:

- 1.375" aluminum cap sill, inswing (Systems 1, 5)
- 1.740" high dam aluminum sill, outswing (System 2, 7)
- 1.000" standard aluminum sill, outswing (Systems 3, 8)
- 1.482" high dam composite sill, outswing (Systems 4, 6)

Product Identification (Manufacturer Label on Door):

System		
1-4	Manufacturer's name or code 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 ASTM E1886-05/E1996-09; Missile Level D
5-8	Manufacturer's name or code 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 ASTM E1886-05/E1996-09; Missile Level D

Compliance: The products comply with ASTM E330-14, ASTM E 1886-13a, and ASTM E 1996-14a as referenced in the 2018 IRC and 2018 IBC.

Impact Resistance:

System	Impact Resistant	Requirement
1-8	Yes	These products have been tested for windborne debris resistance. They satisfy Missile Level D requirements specified in ASTM E 1996-14a.

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

Sidelites: Sidelites must only be used with doors. Sidelites must not be installed individually.

Installation:

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

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

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.