

Product Evaluation

DR200 | 0421

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-200

Effective Date: April 1, 2021

Re-evaluation Date: April 2025

Product Name: 6'-8" and 8'-0" Glazed and Opaque Fiberglass Side Hinged Doors, Inswing and Outswing, with or without Sidelites, Non-Impact Resistant

Manufacturer: Masonite Exterior Door Products
201 N. Franklin St., Suite 300
Tampa, FL 33602
(800) 663-3667

General Description:

System	Description	Design Pressure Rating
1	8'-0" Full Lite Glazed Inswing Door with Sidelites; OXXO	+40 / -40 psf
2	8'-0" Full Lite Glazed Outswing Door with Sidelites; OXXO	+40 / -40 psf
3	6'-8" Full Lite Glazed Inswing Door with Sidelites; OXXO	+40 / -40 psf
4	6'-8" Full Lite Glazed Outswing Door with Sidelites; OXXO	+40 / -40 psf
5	6'-8" Glazed (22" x 48") Inswing Door with Sidelites; OXXO	+50 / -50 psf
6	6'-8" Glazed (22" x 48") Outswing Door with Sidelites; OXXO	+50 / -50 psf
7	6'-8" Full Lite Glazed Inswing Door with Sidelite; XO	+50 / -50 psf
8	6'-8" Full Lite Glazed Outswing Door with Sidelite; XO	+50 / -50 psf
9	6'-8" Glazed Inswing Patio Door; XX	+50.5 / -50.5 psf
10	6'-8" Glazed Outswing Patio Door; XX	+50.5 / -50.5 psf

General Description (continued):

System	Description	Design Pressure Rating
11	6'-8" Opaque Inswing Door with Sidelites; OXXO	+55 / -55 psf
12	6'-8" Opaque Outswing Door with Sidelites; OXXO	+55 / -55 psf
13	8'-0" Opaque Inswing Door with Sidelites; OXXO	+55 / -55 psf
14	8'-0" Opaque Outswing Door with Sidelites; OXXO	+55 / -55 psf
15	6'-8" Opaque Inswing Door with Sidelite; XO	+55 / -55 psf
16	6'-8" Opaque Outswing Door with Sidelite; XO	+55 / -55 psf

Product Dimensions:

System	Overall Size	Operable Panel Size	Fixed Panel Daylight Opening Size
1	148-7/8" x 97-3/4"	35-3/4" x 95-1/4"	Door & Sidelite: 21" x 79"
2	148-7/8" x 96-5/8"	35-3/4" x 95-1/4"	Door & Sidelite: 21" x 79"
3	148-7/8" x 81-3/4"	35-3/4" x 79-1/4"	Door & Sidelite: 21" x 63"
4	148-7/8" x 80-5/8"	35-3/4" x 79-1/4"	Door & Sidelite: 21" x 63"
5	148-7/8" x 81-3/4"	35-3/4" x 79-1/4"	Door: 21" x 47" Sidelite: 21" x 63"
6	148-7/8" x 80-5/8"	35-3/4" x 79-1/4"	Door: 21" x 47" Sidelite: 21" x 63"
7	53" x 81-7/8"	35-3/4" x 79-1/4"	Door: 21" x 63" Sidelite: 5-7/8" x 63"
8	53" x 80-3/4"	35-3/4" x 79-1/4"	Door: 21" x 63" Sidelite: 5-7/8" x 63"
9	71-1/8" x 79-1/2"	34-7/16" x 76-5/8"	Door: 21" x 79" Sidelite: N/A
10	71-1/4" x 78-1/4"	34-7/16" x 76-5/8"	Door: 21" x 79" Sidelite: N/A
11	147-1/2" x 81-3/4"	35-3/4" x 79-1/4"	Door: N/A Sidelite: 21" x 62-3/4"
12	147-1/2" x 80-3/4"	35-3/4" x 79-1/4"	Door: N/A Sidelite: 21" x 63-3/4"
13	105" x 97-3/4"	35-3/4" x 95-1/4"	Door: N/A Sidelite: 7" x 79"

Product Dimensions:

System	Overall Size	Operable Panel Size	Fixed Panel Daylight Opening Size
14	105" x 96-3/4"	35-3/4" x 95-1/4"	Door: N/A Sidelite: 7" x 79"
15	53" x 81-3/4"	35-3/4" x 79-1/4"	Door: N/A Sidelite: 7" x 63"
16	53" x 80-3/4"	35-3/4" x 79-1/4"	Door: N/A Sidelite: 7" x 63"

Components and Hardware:**Systems 1-6, 11-14**

- **Hinges:** secured to the door panel with four No. 10 x 1" PFH screws and to the door jamb with two No. 10 x 5/8" PFH screws and two No. 10 x 2-1/2" PFH screws
 - Systems 1-2, 13-14: four required
 - Systems 3-12, 15-16: three required
- **Lockset:** minimum grade 3 rating as defined by ANSI/BHMA A156.2; one required; locate on the active door panel
- **Deadbolt:** grade 1 rating as defined by ANSI/BHMA A156.36; one required; locate on the active door panel
- **Strike plate – Lockset:** one required; locate on the door jamb; secured with two, No. 8 x 2" PFH screws.
- **Strike plate – Deadbolt:** one required; locate on the door jamb; secured with two No. 8 x 2" PFH screws.
- **Astragal strike – strike plate at head:** Secure with two, No. 8 x 2" PFH screws
- **Astragal strike – sill retainer hole:** drill hole through sill deep enough for a 1-3/8" screws extension bolt throw.

Systems 7-8, 15-16

In addition to the above hardware:

- **Tru-Lock Multi-Point Lock:** one required; located on the active door panel
- **Multi-Point Lock – strike plate:** one required; located on the door jamb; Secure with two No. 8 x 2" PFH screws and two No. 8 x 3/4" PFH screws

Systems 9-10

In addition to the above hardware:

- **8" surface Slide Bolts:** Located at the top and the bottom of the active panel

Thresholds:

- Outswing: 0.962" high aluminum adjustable threshold (Systems 2, 4, 6, 8, 10, 12, 14, 16)
- Outswing: 1.482" high Endura Z Series High Dam aluminum threshold (System 6)
- Outswing: 1.730" high DLP High Dam aluminum bumper threshold (System 6)
- Outswing: 1.750" high Dam aluminum bumper threshold (Systems 8, 16)
- Inswing: 1.375" high aluminum adjustable threshold (Systems 1, 3, 5, 7, 9, 11, 13, 15)

Product Identification (Manufacturer Label on Door):

System		
1-2	Manufacturer's name	Masonite
	Product name	Fiberglass Glazed Door Unit with or without Sidelites Inswing or Outswing Config: X, XX, OX, XO, OXO, OXXO Max. Nominal Size: 12'0" x 8'0" Full Lite Glazed
	Test standards	ASTM E330-02
3-4	Manufacturer's name	Masonite
	Product name	Fiberglass Glazed Door Unit with or without Sidelites Inswing or Outswing Config: X, XX, OX, XO, OXO, OXXO Max. Nominal Size: 12'0" x 6'8" Full Lite Glazed
	Test standards	ASTM E330-02
5-6	Manufacturer's name	Masonite
	Product name	Fiberglass Glazed Door Unit with or without Sidelites Inswing or Outswing Config: X, XX, OX, XO, OXO, OXXO Max. Nominal Size: 12'0" x 6'8" Glazed 22x48
	Test standards	ASTM E330-02
7-8	Manufacturer's name	Masonite
	Product name	Fiberglass Glazed Patio Door Unit Inswing or Outswing Config: XO Max. Nominal Size: 4'5" x 6'8" Full Lite Glazed
	Test standards	ASTM E330-02
9-10	Manufacturer's name	Masonite
	Product name	Fiberglass Glazed Patio Door Unit Inswing or Outswing Config: XX Max. Nominal Size: 6'0" x 6'8"
	Test standards	ASTM E330-02

Product Identification (Manufacturer Label on Door)-continued:

System		
11-12	Manufacturer's name	Masonite
	Product name	Fiberglass Opaque Door Unit with or without Sidelites Inswing or Outswing Config: X, XX, XO, OX, OXO, OXXO Max. Nominal Size: 12'0" x 6'8"
	Test standards	ASTM E330-02
13-14	Manufacturer's name	Masonite
	Product name	Fiberglass Opaque Door Unit with or without Sidelites Inswing or Outswing Config: X, XX, XO, OX, OXO, OXXO Max. Nominal Size: 8'9" x 8'0"
	Test standards	ASTM E330-02
15-16	Manufacturer's name	Masonite
	Product name	Fiberglass Opaque Door Unit Inswing or Outswing Config: XO Max. Nominal Size: 4'5" x 6'8"
	Test standards	ASTM E330-02

Impact Resistance:

System	Impact Resistant	Requirement
1-16	No	Provide an impact protective system when installing glazed fenestration 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:

Systems 1-6, 11-14: 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 x 2-1/2" PFH screws. Along the head and sill, locate the screws approximately 6" from each outside corner, one at 3" and 6" on each side of the mullion, one at 3" and 6" on each side of the astragal, and one at the center of each door panel. Along the side jambs, locate the screws approximately 6" from each corner and space evenly, thereafter, totaling six screws per side jamb. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

Systems 7-8, 15-16: 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 x 2-

1/2" PFH screws. Along the head and the sill, locate the screws approximately 6" from the door corner and one at 3" and 6" on each side of the mullion. Along the side jambs of the door and sidelite, locate the screws approximately 6" from each corner and space evenly thereafter, totaling five screws along each side jamb. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

Systems 9-10: 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 x 2-1/2" PFH screws. Along the head and the sill, locate the screws approximately 6" from each outside corner, one at 3" and 6" on each side of the astragal, and one at the center of each door panel. Along the side jambs, locate the screws approximately 6" from each corner and space evenly thereafter, totaling six screws along each side jamb. The fasteners must be long enough to penetrate a 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.