



# Product Evaluation

DR200 | 0815

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:** August 1, 2015

**Re-evaluation Date:** May 2017

**Product Name:** Wood Edge Fiberglass Glazed and Opaque Inswing and Outswing Hinged Doors with Sidelites, Non-impact Resistant

**Manufacturer:** Masonite Exterior Door Products  
One Premdor Drive  
Dickson, Tennessee 37055  
(800) 663-3667

## General Description:

System	Description	Design Pressure
1	Glazed Inswing Hinged Doors with Sidelites; 6'8"; Surface Bolts; Wood Door Frame; OXXO; Adjustable Inswing Sill	+50.5 / -50.5 psf
2	Glazed Inswing Hinged Doors with Sidelites; 6'8"; PVC Door Frame; OXXO; Adjustable Inswing Sill	+50.5 / -50.5 psf
3	Glazed Inswing Hinged Doors with Sidelites; 6'8"; Wood Door Frame; OXXO; Adjustable Inswing Sill	+52.0 / -52.0 psf
4	Glazed Outswing Hinged Doors with Sidelites; 6'8"; Wood Door Frame or PVC Door Frame; OXXO; Standard Outswing Sill	+55.0 / -55.0 psf
5	Opaque Inswing Hinged Doors with Sidelites; 6'8"; PVC Door Frame; OXXO; Adjustable Inswing Sill	+50.5 / -50.5 psf

**General Description (Continued):**

System	Description	Design Pressure
6	Opaque Inswing Hinged Doors with Sidelites; 6'8"; Wood Door Frame; OXXO; Adjustable Inswing Sill	+55.0 / -55.0 psf
7	Opaque Outswing Hinged Doors with Sidelites; 6'8"; Wood Door Frame; OXXO; Standard Outswing Sill	+55.0 / -55.0 psf
8	Opaque Outswing Hinged Doors with Sidelites; 6'8"; PVC Door Frame; OXXO; Standard Outswing Sill	+50.5 / -50.5 psf
9	Opaque Outswing Hinged Doors with Sidelites; 8'0"; Wood Door Frame; OXXO; Standard Outswing Sill	+55.0 / -55.0 psf
10	Opaque Inswing Hinged Doors with Sidelites; 8'0"; Wood Door Frame; OXXO	+55.0 / -55.0 psf
11	Glazed Outswing Hinged Doors with Sidelites; 8'0"; Wood Door Frame; OXXO; Standard Outswing Sill	+47.0 / -47.0 psf
12	Glazed Inswing Hinged Doors with Sidelites; 8'0"; Wood Door Frame; OXXO; Adjustable Inswing Sill	+40.0 / -45.0 psf
13	Opaque Inswing Hinged Door; 8'0"; Wood Door Frame or PVC Door Frame; X; Adjustable Inswing Sill	+70 / -70 psf
14	Opaque Inswing Hinged Door; 8'0"; Wood Door Frame or PVC Door Frame; X; ADA Inswing Sill	+62 / -62 psf
15	Opaque Outswing Hinged Door; 8'0"; Wood Door Frame or PVC Door Frame; X; Standard Outswing Sill	+70 / -70 psf
16	Opaque Outswing Hinged Door; 8'0"; Wood Frame or PVC Door Frame; X; Highdam Outswing Sill	+70 / -70 psf

**Product Dimensions - Doors:**

System	Overall Size	Active Panel Size	Passive Panel Size with Astragal	Maximum Daylight Opening Size
1	147-1/2" x 81-3/4"	35-3/34" x 79-1/4"	36-3/8" x 79-1/4"	21" x 62-3/4"
2	147-1/2" x 81-3/4"	35-3/4" x 79-1/4"	36-3/8" x 79-1/4"	21" x 62-3/4"
3	147-1/2" x 81-3/4"	35-3/4" x 79-1/4"	36-3/8" x 79-1/4"	21" x 62-3/4"
4	147-1/2" x 80-3/4"	35-3/4" x 79-1/4"	36-3/8" x 79-1/4"	21" x 62-3/4"
5	147-1/2" x 81-3/4"	35-3/4" x 79-1/4"	36-3/8" x 79-1/4"	N/A
6	147-1/2" x 81-3/4"	35-3/4" x 79-1/4"	36-3/8" x 79-1/4"	N/A

**Product Dimensions – Doors (Continued):**

System	Overall Size	Active Panel Size	Passive Panel Size with Astragal	Maximum Daylight Opening Size
7	147-1/2" x 80-3/4"	35-3/4" x 79-1/4"	36-3/8" x 79-1/4"	N/A
8	147-1/2" x 80-3/4"	35-3/4" x 79-1/4"	36-3/8" x 79-1/4"	N/A
9	105" x 96-3/4"	35-3/4" x 95-1/4"	36-3/8" x 95-1/4"	N/A
10	105" x 97-3/4"	35-3/4" x 95-1/4"	36-3/8" x 95-1/4"	N/A
11	147-1/2" x 96-3/4"	35-3/4" x 95-1/4"	36-3/8" x 95-1/4"	21" x 79"
12	147-1/2" x 97-3/4"	35-3/4" x 95-1/4"	36-3/8" x 95-1/4"	21" x 79"
13	37-1/2" x 97-3/4"	35-3/4" x 95-1/4"	N/A	N/A
14	37-1/2" x 97-3/4"	35-3/4" x 95-1/4"	N/A	N/A
15	37-1/2" x 96-7/8"	35-3/4" x 95-1/4"	N/A	N/A
16	37-1/2" x 96-7/8"	35-3/4" x 95-1/4"	N/A	N/A

**Product Dimensions - Sidelites:**

System	Sidelite Panel Size	Maximum Daylight Opening Size
1	37-1/2" x 81-3/4"	21" x 62-3/4"
2	37-1/2" x 81-3/4"	21" x 62-3/4"
3	37-1/2" x 81-3/4"	21" x 62-3/4"
4	37-1/2" x 80-3/4"	21" x 62-3/4"
5	37-1/2" x 81-3/4"	21" x 62-3/4"
6	37-1/2" x 81-3/4"	21" x 62-3/4"
7	37-1/2" x 80-3/4"	21" x 62-3/4"
8	37-1/2" x 80-3/4"	21" x 62-3/4"
9	15-1/2" x 96-3/4"	7" x 79"
10	15-1/2" x 96-3/4"	7" x 79"
11	37-3/4" x 96-3/4"	21" x 79"
12	37-3/4" x 97-3/4"	21" x 79"
13-16	N/A	N/A

**Hardware - Hinges:****Systems 1 through 8:**

- 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 9 through 12:**

- Hinges; eight required (four per door panel); Secured to the door panel with four No. 10 x 3/4" screws. Secured to the door jamb with two No. 10 x 3/4" screws and two No. 10 x 2-1/2" screws.

**Systems 13 through 16:**

- Hinges; four required; 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" screws.

**Hardware – Deadbolts and Locksets:**

**Systems 1 through 16:**

- Kwikset Series 400 Lockset or Schlage F-Series Lockset; Located on the active door panel.
- Kwikset Series 980 Deadbolt or Schlage B-Series Deadbolt; Located on the active door panel.

**Hardware – Strike Plates:**

**Systems 1 through 12:**

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

**Systems 13 through 16:**

- Strike plate – Lockset; One required; Located on the door jamb; Secured with two No. 8 x 2" screws.
- Strike plate – Deadbolt; One required; Located on the door jamb; Secured with two No. 8 x 2" screws.

**Hardware – Surface Bolts:**

**System 1:**

- 8" Ives Model 453 Surface Bolts; two required; Located at the top and bottom of the active lock stile. Each secured to the door panel with four 1/4-20 x 1" screws.

**Thresholds:**

- 1.375" high aluminum inswing adjustable threshold (Systems 1, 2, 3, 5, 6, 10, 12, 13)
- 0.952" high aluminum outswing bumper threshold (Systems 4, 7, 8, 9, 11, 15)
- 0.500" high ADA aluminum threshold (System 14)
- 1.482" high aluminum highdam outswing threshold (System 16)

**Product Identification (Manufacturer Label on Door) – Wood Frame Doors:**

System		
1	Manufacturer's Name	Masonite
	Product Name	Fiberglass 6'8" Glazed Double Door
	Test Standards	ASTM E 330

**Product Identification (Manufacturer Label on Door) – Wood Frame Doors (Continued):**

<b>System</b>		
2, 3, 4	Manufacturer's Name	Masonite
	Product Name	Fiberglass 6'8" I/S or O/S Glazed Single or Double Door w/ or w/o Sidelites
	Test Standards	ASTM E 330
5, 6, 7, 8	Manufacturer's Name	Masonite
	Product Name	Fiberglass 6'8" I/S or O/S Opaque Single or Double Door w/ or w/o Non-impact Sidelites
	Test Standards	ASTM E 330
9, 10, 13, 14, 15, 16	Manufacturer's Name	Masonite
	Product Name	Fiberglass 8'-0" I/S or O/S Opaque Single or Double Door w/ or w/o Non-impact Sidelites
	Test Standards	ASTM E 330
11, 12	Manufacturer's Name	Masonite
	Product Name	Fiberglass 8'0" I/S or O/S Glazed Single or Double Door w/ or w/o Non-impact Sidelites
	Test Standards	ASTM E 330

**Product Identification (Manufacturer Label on Door) – PVC Frame Doors:**

<b>System</b>		
2	Manufacturer's Name	Masonite
	Product Name	Fiberglass I/S or O/S Vinyl Frame Glazed Single or Double Door w/ or w/o Sidelites
	Test Standards	ASTM E 330
5, 8, 13, 14, 15, 16	Manufacturer's Name	Masonite
	Product Name	Fiberglass I/S or O/S Opaque Single or Double Door w/ or w/o Non-impact Sidelites
	Test Standards	ASTM E 330

**Impact Resistance:**

System	Impact Resistant	Requirement
1-16	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 specified in this report.

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

**Installation**

**Systems 1, 2, 3, 5, 6:** The door assembly must be fastened to minimum Spruce-Pine-Fir dimension lumber wall framing. The door assembly must be secured to the wall framing using minimum No. 10 screws as follows:

**Head (Door and Sidelite):** Minimum No. 10 x 2-1/2" screws; Located approximately 6" from each end; 3" and 6" on each side of the mullion and the astragal, and one screw placed at the centerline of each door panel.

**Sill (Door and Sidelite):** Minimum No. 10 x 2" screws; Located approximately 6" from each end; 3" and 6" on each side of the mullion and the astragal, and one screw placed at the centerline of each door panel.

**Jambs:** Minimum No. 10 x 2-1/2" screws; Located approximately 6" from each corner and spaced approximately 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 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 shall have a minimum embedment of 1-1/4" into the concrete.

**Systems 4, 7, 8:** The door assembly must be fastened to minimum Spruce-Pine-Fir dimension lumber wall framing. The door assembly must be secured to the wall framing using minimum No. 10 x 2-1/2" long flat head screws as follows:

**Head and Sill (Door and Sidelite):** Located approximately 6" from each end; 3" and 6" on each side of the mullion and the astragal, and one screw placed at the centerline of each panel.

**Jambs:** Located approximately 6" from each corner and spaced approximately 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 rather than wood framing members, then a 3/16" diameter concrete anchor may be substituted for the No. 10 x 2-1/2" long screws noted above. The concrete anchor must have a minimum embedment of 1-1/4" into the concrete.

**Systems 10, 12:** The door assembly must be fastened to minimum Spruce-Pine-Fir dimension lumber wall framing. The door assembly must be secured to the wall framing using minimum No. 10 screws as follows:

**Head (Door and Sidelite):** Minimum No. 10 x 2-1/2" screws; Located approximately 6" from each end; 3" and 6" on each side of the mullion and the astragal, and one screw placed at the centerline of each door panel.

**Sill (Door and Sidelite):** Minimum No. 10 x 2" screws; Located approximately 6" from each end; 3" and 6" on each side of the mullion and the astragal, and one screw placed at the centerline of each door panel.

**Jambs:** Minimum No. 10 x 2-1/2" screws; Located approximately 6" from each corner and spaced approximately 17" 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 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.

**Systems 9, 11:** The door assembly must be fastened to minimum Spruce-Pine-Fir dimension lumber wall framing. The door assembly must be secured to the wall framing using minimum No. 10 x 2-1/2" long flat head screws as follows:

**Head and Sill (Door and Sidelite):** Located approximately 6" from each end; 3" and 6" on each side of the mullion and the astragal, and one screw placed at the centerline of each panel.

**Jambs:** Located approximately 6" from each corner and spaced approximately 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 rather than wood framing members, then a 3/16" diameter concrete anchor may be substituted for the No. 10 x 2-1/2" long screws noted above. The concrete anchor must have a minimum embedment of 1-1/4" into the concrete.

**Systems 13, 14, 15, 16:** The door assembly must be fastened to minimum Spruce-Pine-Fir dimension lumber wall framing. The door assembly must be secured to the wall framing using minimum No. 10 screws as follows:

**Head and Sill:** Minimum No. 10 x 2-1/2" screws; Located approximately 6" from each end.

**Jambs:** Minimum No. 10 x 2-1/2" screws; Located approximately 6" from each corner and spaced approximately 17" 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 rather than wood framing members, then a 3/16" diameter concrete anchor must be used. 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, the IBC, and the Texas Revisions.