



# Product Evaluation

DR761 | 0616

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, 2016

**Re-evaluation Date:** June 2020

**Product Name:** Flush Glazed Fiberglass 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      | Flush Glazed Inswing Hinged Doors with Sidelites; 6'8"; Wood Door Frame; OXXO; Adjustable Cap Sill                | +55 / -60 psf   |
| 2      | Flush Glazed Inswing Hinged Doors with Sidelites; 6'8"; Wood Door Frame; OXXO; ADA Sill                           | +55 / -60 psf   |
| 3      | Flush Glazed Outswing Hinged Doors with Sidelites; 6'8"; Wood Door Frame; OXXO; High Dam Aluminum Sill            | +60 / -55 psf   |
| 4      | Flush Glazed Outswing Hinged Doors with Sidelites; 6'8"; Wood Door Frame; OXXO; Standard Aluminum Sill            | +60 / -55 psf   |
| 5      | Flush Glazed Outswing Hinged Doors with Sidelites; 6'8"; Wood Door Frame; OXXO; High Dam Composite Sill           | +60 / -55 psf   |
| 6      | Flush Glazed Inswing Hinged Doors with Sidelites; 8'0"; Wood Door Frame; OXXO; Adjustable Cap Sill                | +45 / -47 psf   |
| 7      | Flush Glazed Inswing Hinged Doors with Sidelites; 8'0"; Wood Door Frame; OXXO; Adjustable Cap Sill; Surface Bolts | +55 / -55 psf   |
| 8      | Flush Glazed Outswing Hinged Doors with Sidelites; 8'0"; Wood Door Frame; OXXO; High Dam Composite Sill           | +47 / -47 psf   |

**General Description (cont.):**

| System | Description  | Design Pressure |
|--------|--|-----------------|
| 9      | Flush Glazed Outswing Hinged Doors with Sidelites; 8'0"; Wood Door Frame; OXXO; High Dam Aluminum Sill | +47 / -47 psf   |
| 10     | Flush Glazed Outswing Hinged Doors with Sidelites; 8'0"; Wood Door Frame; OXXO; Standard Aluminum Sill | +47 / -47 psf   |

**Product Dimensions - Doors:**

| System | Overall Size       | Active Panel Size<br>Sidelite Size | Passive Panel Size<br>with Astragal | Maximum Daylight<br>Opening Size |
|--------|--------------------|------------------------------------|-------------------------------------|----------------------------------|
| 1      | 148-3/4" x 81-3/4" | 35-3/4" x 79"                      | 36-3/8" x 79"                       | 25" x 63"                        |
| 2      | 148-3/4" x 81-3/4" | 35-3/4" x 79"                      | 36-3/8" x 79"                       | 25" x 63"                        |
| 3      | 148-3/4" x 80-1/8" | 35-3/4" x 79"                      | 36-3/8" x 79"                       | 25" x 63"                        |
| 4      | 148-3/4" x 80-1/8" | 35-3/4" x 79"                      | 36-3/8" x 79"                       | 25" x 63"                        |
| 5      | 148-3/4" x 80-5/8" | 35-3/4" x 79"                      | 36-3/8" x 79"                       | 25" x 63"                        |
| 6      | 148-3/4" x 97-7/8" | 35-3/4" x 95"                      | 36-3/8" x 95"                       | 25" x 79"                        |
| 7      | 148-3/4" x 97-7/8" | 35-3/4" x 95"                      | 36-3/8" x 95"                       | 25" x 79"                        |
| 8      | 148-3/4" x 97-1/8" | 35-3/4" x 95"                      | 36-3/8" x 95"                       | 25" x 79"                        |
| 9      | 148-3/4" x 96-5/8" | 35-3/4" x 95"                      | 36-3/8" x 95"                       | 25" x 79"                        |
| 10     | 148-3/4" x 96-5/8" | 35-3/4" x 95"                      | 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:**

- Kwikset Series 400 Lockset; Located on the active door panel.
- Kwikset Series 980 Deadbolt; 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) – Wood Frame Doors:**

| System         |                     |  |
|----------------|---------------------|--|
| 1, 2, 3, 4, 5  | Manufacturer's Name | Masonite   |
|                | Product Name        | Fiberglass Flush Glazed Door Unit w/ or w/o Sidelites; Inswing or Outswing<br>Maximum Nominal Size: 12'-0" x 6'-8" |
|                | Test Standards      | ASTM E 330   |
| 6, 7, 8, 9, 10 | Manufacturer's Name | Masonite   |
|                | Product Name        | Fiberglass Flush Glazed Door Unit w/ or w/o Sidelites; Inswing or Outswing<br>Maximum Nominal Size: 12'-0" x 8'-0" |
|                | Test Standards      | ASTM E 330   |

**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 specified in this report.

**Acceptable Configurations:** The following configurations are acceptable: X, XX, OX, XO, OXO, OXXO

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

**Installation:**

**General:** 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" PFH screws (Inswing); Minimum No. 10 x 2-1/2" PFH screws (Outswing); 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" PFH 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.

**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.