

Product Evaluation

DR257 | 1121

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-257

Effective Date: November 1, 2021

Re-evaluation Date: October 2025

Product Name: Fiberglass Opaque Inswing and Outswing Fire Rated Side Hinged Doors, Impact Resistant

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

General Description:

System	Description	Design Pressure Rating
1	8'-0" Opaque Inswing Single Door, Particle Core, ADA Inswing Sill; X	+50 / -50 psf Missile Level D
2	8'-0" Opaque Inswing Single Door, Particle Core, Standard Outswing Sill; X	+70 / -70 psf Missile Level D
3	8'-0" Opaque Outswing Single Door, Particle Core, Standard Outswing Sill; X	+70 / -70 psf Missile Level D

Product Dimensions:

System	Overall Size	Operable Panel Size
1-2	37-1/2" x 97-3/4"	35-3/4" x 95-1/4"
3	37-1/2" x 96-3/4"	35-3/4" x 95-1/4"

Components and Hardware:

Hinges: four required; secured to the door panel with four No. 10 x 1" PFH screws, and to the door jamb with three No. 10 x 5/8" PFH screws and one No. 10 x 2" PFH screw.

Locksets and Deadbolts

- **System 1**
 - VingCard Lock System, LCU 3300 XC Classic Mag; located on the active door panel
- **System 2-3**
 - Schlage F51 Series Knob and B60 Series Deadbolt; located on the active door panel

Strike Plates:

- **System 1**
 - VingCard strike plate: one required; located on the door frame jamb; secured with two No. 12 x 1-1/2" PFH screws
- **System 2-3**
 - Knob and deadbolt strike plate: one each required; located on the door jamb; secured with two No. 8 x 2" PFH screws

Thresholds:

- 0.50" high aluminum inswing bumper threshold; ADA (System 1)
- 1.375" high aluminum inswing adjustable threshold (System 2)
- 0.962" high aluminum outswing bumper threshold (System 3)

Product Identification (Manufacturer Label on Door):

System		
1	Manufacturer's name or code name	Masonite
	Product name	Fiberglass Opaque Entry Doors Inswing or Outswing Fire Rated ADA Sill Config: X Max. Nominal Size: 3'-0" x 8'-0"
	Test standards	ASTM E330-02/E1886-05/E1996-09 Missile Level D

Product Identification (Manufacturer Label on Door):

System		
2-3	Manufacturer's name or code name	Masonite
	Product name	Fiberglass Opaque Entry Doors Inswing or Outswing Fire Rated Standard Sill Config: X Max. Nominal Size: 3'-0" x 8'-0"
	Test standards	ASTM E330-02/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
1-3	Yes	These products satisfy TDI's criteria for protection from windborne debris. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

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

Installation:

System		
1-3	Type of installation	Frame Installation
	Wall framing	Spruce-Pine-Fir dimension lumber
	Fasteners	Minimum No. 10 x 2-1/2" PFH screws
	Fastener location/spacing	Head/Sill: 6" from each corner Side Jamb: 6" from each corner and four screws evenly spaced thereafter
	Fastener penetration	Minimum of 1-1/2" into the wall framing

NOTE: If the frame sill is secured to concrete, then a 3/16" diameter concrete anchor may be substituted for the 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 titled "Structural Performance Anchor Detail." An illustration of anchor placement on the frame and sill members is provided in drawing titled "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.