

## Product Evaluation

DR217 | 0222

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-217

**Effective Date:** February 1, 2022

**Re-evaluation Date:** February 2026

**Product Name:** Metal Edge, Steel, Opaque, Inswing and Outswing, Hinged Doors with Two-Piece Adjustable Frame, Singles and Doubles, Impact and Non-Impact Resistant

**Manufacturer:** Masonite International  
1955 Powis Road  
West Chicago, IL 60185  
(800) 663-3667

### General Description (Impact Doors):

System	Description	Design Pressure Rating
1	6'-8" Opaque Inswing Double Door; XX	+50.5 / -50.5 psf
2	6'-8" Opaque Outswing Double Door; XX	+50.5 / -50.5 psf
3	6'-8" Opaque Inswing Double Doors w/ Surface Bolts; XX	+45.3 / -55 psf
4	8'-0" Opaque Inswing Single Door; X	+65 / -65 psf
5	8'-0" Opaque Outswing Single Door; X	+65 / -65 psf
6	8'-0" Opaque Inswing Single Door; X (Sill Optional)	+55 / -55 psf
7	8'-0" Opaque Outswing Single Door; X (Sill Optional)	+55 / -55 psf

**General Description (Non-Impact Doors):**

System	Description	Design Pressure Rating
8	6'-8" Opaque Inswing Single Door w/ Mortise Card Lock; X	+44 / -66 psf

**Product Dimensions:**

System	Overall Size	Operable Panel Size
1, 3	75-5/8" x 82-5/16"	35-3/4" x 79-5/16"
2	75-5/8" x 81-13/16"	35-3/4" x 79-5/16"
4, 6	39-1/8" x 98-5/16"	35-3/4" x 95-5/16"
5, 7	39-1/8" x 97-13/16"	35-3/4" x 95-5/16"
8	39-1/8" x 82-5/16"	35-3/4" x 79-5/16"

**Components and Hardware:****Hinges****Systems 1-3**

Six required, three per door panel; secured to the door panel with four No. 10 x 1/2" flat head machine screws and to the door jamb with three No. 10 x 1/2" flat head machine screws and one No. 8 x 2" flat head wood screw.

**Systems 4-8**

Four required; secured to the door panel with four No. 10 x 1/2" flat head machine screws and to the door jamb with three No. 10 x 1/2" flat head machine screws and one No. 8 x 2" flat head wood screw.

**Locksets and Deadbolts****Systems 1-7**

Schlage F-Series Lockset: one required; located on the active door panel

Schlage B-Series Deadbolt: one required; located on the active door panel

**System 8**

Ving Card Lock System, LCU 3300 XC Classic Mag; located on the active door panel

**Astragal Retainer Bolts (Systems 1-3):** located at the astragal on the passive door panel at the top and bottom

**8" Ives Model 453 Surface Bolts (System 3):** two required; located at the top and bottom of the active lock stile; secured to the door panel with four 1/4-20 x 1" screws

**Strike Plates****Systems 1-3**

Lockset and Deadbolt strike plates: one each required; located on the door astragal; secured with two No. 8 x 2" PFH screws

Astragal retainer bolt strike plate: one required; located at the door frame head; secured with two no. 8 x 2" PFH screws

Surface Bolts strike plate (System 3): one required; located at the door frame head; secured with two no. 8 x 2" PFH screws

**Systems 4-8**

Lockset strike plate: one required; located on the door jamb; secured with two No. 8 x 1/2" flat head machine screws

Deadbolt strike plate: one required; located on the door astragal; secured with two No. 8 x 2" PFH screws.

**Thresholds:**

- 1.25" high aluminum inswing threshold (System 1, 3-4, 8)
- 1.25" high aluminum outswing threshold (Systems 2, 5)
- Optional threshold (Systems 6-7)

**Product Identification (Manufacturer's Label on Door):**

System		
1-2	Manufacturer's name or code name	Masonite
	Product name	Opaque Metal-Edge Steel Door Adjustable Steel Frame Inswing or Outswing Config: XX Max. Nominal Size: 6'-0" x 6'-8"
	Test standards	ASTM E330-02 TAS 201, 203; Large Missile
3	Manufacturer's name or code name	Masonite
	Product name	Opaque Metal-Edge Steel Door Adjustable Steel Frame Inswing or Outswing Config: XX Max. Nominal Size: 6'-0" x 6'-8"
	Test standards	ASTM E330-02 TAS 201, 203; Large Missile

**Product Identification (Manufacturer's Label on Door):**

System		
4-5	Manufacturer's name or code name	Masonite
	Product name	Opaque Metal-Edge Steel Door Adjustable Steel Frame Inswing or Outswing Config: X Max. Nominal Size: 3'-0" x 8'-0"
	Test standards	ASTM E330-02 TAS 201, 203; Large Missile
6-7	Manufacturer's name or code name	Masonite
	Product name	Opaque Metal-Edge Steel Door Adjustable Steel Frame Inswing or Outswing Config: X (Sill Optional) Max. Nominal Size: 3'-0" x 8'-0"
	Test standards	ASTM E330-02 TAS 201, 203; Large Missile
8	Manufacturer's name or code name	Masonite
	Product name	Opaque Metal-Edge Steel Door Adjustable Steel Frame Inswing or Outswing Mortise Card Lock Config: X Max. Nominal Size: 3'-0" x 6'-8"
	Test standards	ASTM E330-02, TAS 202

**Compliance:** The products comply with ASTM E 330-14 as reference in the 2018 IRC and 2018 IBC.

**Impact Resistance:**

System	Impact Resistant	Requirement
1-7	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.
8	No	This door has not been tested for windborne debris resistance. Opaque doors do not require an impact protective system.

**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:**

**Systems 1-3:** The wood wall framing members must be minimum Southern Yellow Pine dimension lumber. The door assembly is secured to the wall framing with No. 8 x 1-1/4" PFH screws along the head and side jambs. Along the head, locate the screws approximately 2-1/2" from each corner and four additional screws evenly spaced thereafter. Along the side jambs, locate the screws approximately 3" from each corner and four additional screws evenly spaced thereafter. Fasteners required at the interior and the exterior. Along the sill, use No. 10 x 2" PFH screws (inswing) and No. 10 x 2-1/2" PFH screws (outswing), located 2-1/2" from each corner and two at the midspan.

**Systems 4-8:** The wood wall framing members must be minimum Southern Yellow Pine dimension lumber. The door assembly is secured to the wall framing with No. 8 x 1-1/4" PFH screws along the head and side jambs. Along the head, locate the screws approximately 9" from each corner and one at the midspan. Along the side jambs, locate the screws approximately 3" from each corner and four additional screws evenly spaced thereafter. Fasteners required at the interior and the exterior. Along the sill, use No. 10 x 2" PFH screws (inswing) and No. 10 x 2-1/2" PFH screws (outswing), located 9" from each corner.

**NOTE:** All fasteners must be long enough to penetrate a minimum of 1-1/4" 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.