

Product Evaluation

DR1184 | 0721

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-1184

Effective Date: July 1, 2021

Re-evaluation Date: July 2025

Product Name: Opaque Metal Edge Steel Hinged Doors, Adjustable Steel Frame, Inswing, Singles and Doubles, Non-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" Metal Edge Steel Opaque Inswing Single Door; X	+55 / -55 psf
2	6'-8" Metal Edge Steel Opaque Inswing Double Doors; XX	+45.3 / -55 psf
3	8'-0" Metal Edge Steel Opaque Inswing Single Door; X	+65 / -65 psf
4	8'-0" Metal Edge Steel Opaque Outswing Single Door; X	+65 / -65 psf
5	6'-8" Metal Edge Steel Opaque Inswing Double Door; XX	+50.5 / -50.5 psf
6	6'-8" Metal Edge Steel Opaque Outswing Double Door; XX	+50.5 / -50.5 psf
7	6'-8" Metal Edge Steel Opaque Inswing Single Door; X	+44 / -66 psf

Product Dimensions:

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

Components and Hardware:**System 1, 3-4:**

- **Hinges:** four required; secure to the door panel with four No. 10 x 1/2" screws, and to the door jamb with three No. 10 x 1/2" flat head screws and one No. 8 x 1-1/2" PFH wood screw
- **Lockset:** minimum grade 2 rating as defined by ANSI/BHMA A156.2; located on the active door panel
- **Deadbolt:** minimum grade 1 rating as defined by ANSI/BHMA A156.36; located on the active door panel
- **Strike plate – Lockset:** one required; locate on the door jamb; secured with two No. 8 x 1-1/2" wood screws.
- **Strike plate – Deadbolt:** one required; locate on the door jamb; secured with two No. 8 x 3/8" flat head machine screws.

System 2, 5-6:

- **Hinges:** six required; secure to the door panel with four No. 10 x 1/2" screws, and to the door jamb with three No. 10 x 1/2" flat head screws and one No. 8 x 1-1/2" PFH wood screw
- **Lockset:** minimum grade 2 rating as defined by ANSI/BHMA A156.2; located on the active door panel
- **Deadbolt:** minimum grade 1 rating as defined by ANSI/BHMA A156.36; located on the active door panel
- **Strike plate – Lockset:** one required; locate on the door jamb; secured with two No. 8 x 1-1/2" wood screws.
- **Strike plate – Deadbolt:** one required; locate on the door jamb; secured with two No. 8 x 3/8" flat head machine screws.
- **Surface Bolts (System 2 only):** two required, one at the head and one at the sill; located on the inactive door panel
- **Astragal strike – strike plate at head:** Secure with two No. 8 x 2" screws

System 7:

- **Hinges:** six required; secure to the door panel with four No. 10 x 1/2" screws, and to the door jamb with three No. 10 x 1/2" flat head screws and one No. 8 x 1-1/2" PFH wood screw
- **Strike plate – Lockset:** one required; locate on the door jamb; secured with two No. 8 x 1-1/2" wood screws.
- **Strike plate – Deadbolt:** one required; locate on the door jamb; secured with two No. 8 x 3/8" flat head machine screws.
- **Ving Card Lock System LCU 3300 XC Classic Mag:** one required

Thresholds:

- 1.250" high aluminum adjustable threshold (System 1, 3-7)

Product Identification (Manufacturer Label on Door):

System		
1	Manufacturer's name or code name	Masonite
	Product name	Opaque Metal-Edge Steel Door Unit Adjustable Steel Frame Inswing Config: X (sill optional) Max. Nominal Size: 3'-0" x 8'-0"
	Test standards	TAS 202, ASTM E330-14
2	Manufacturer's name or code name	Masonite
	Product name	Opaque Metal-edge Steel Door Unit Adjustable Steel Frame Inswing (Fire Astragal) Config: XX Max. Nominal Size: 6'-0" x 6'-8"
	Test standards	TAS 202, ASTM E330-14
3-4	Manufacturer's name or code name	Masonite
	Product name	Opaque Metal-edge Steel Door Unit Adjustable Steel Frame Inswing or Outswing Config: X Max. Nominal Size: 3'-0" x 8'-0"
	Test standards	TAS 202, ASTM E330-14
5-6	Manufacturer's name or code name	Masonite
	Product name	Opaque Metal-edge Steel Door Unit Adjustable Steel Frame Inswing or Outswing Config: XX Max. Nominal Size: 6'-0" x 6'-8"
	Test standards	TAS 202, ASTM E330-14

Product Identification (Manufacturer Label on Door):

System		
7	Manufacturer's name or code name	Masonite
	Product name	Opaque Metal-edge Steel Door Unit Adjustable Steel Frame Inswing Mortise Card Lock Config: X Max. Nominal Size: 6'-0" x 6'-8"
	Test standards	TAS 202, ASTM E330-14

Impact Resistance:

System	Impact Resistant	Requirement
1-7	No	In accordance with the 2018 IRC and IBC, these products 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:

Head: Minimum No. 8 PFH wood screws; located approximately 6" from each corner and 6" on center.

Sill:

- System 1, 3-4, 7: Minimum No. 10 x 2" PFH wood screws; located approximately 6" from each corner
- System 2, 5-6: Minimum No. 10 x 2" PFH wood screws; located approximately 6" from each corner and one 3" on each side of the astragal.

Side Jambs: Minimum No. 8 PFH wood screws; located approximately 6" from each corner and spaced evenly thereafter.

NOTE: All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wood wall framing members. 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 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.