

Product Evaluation

DR1220 | 0122

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-1220

Effective Date: January 1, 2022

Re-evaluation Date: January 2026

Product Name: 6'-8" and 8'-0" Wood-Edge Steel Opaque Hinged Doors, Singles and Doubles, with or without Sidelites, Non-Impact Resistant

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

General Description:

System	Description	Design Pressure Rating
1	3'-0" x 8'-0" Inswing Single Door; X	+70 / -70 psf
2	3'-0" x 8'-0" Outswing Single Door; X	+70 / -70 psf
3	12'-0" x 8'-0" Inswing Double Door with Sidelites; OXXO	+45 / -50 psf
4	12'-0" x 8'-0" Outswing Double Door with Sidelites; OXXO	+50 / -45 psf
5	12'-0" x 6'-8" Inswing Double Door with Sidelites; OXXO	+55 / -55 psf
6	12'-0" x 6'-8" Outswing Double Door with Sidelites; OXXO	+55 / -55 psf
7	6'-0" x 6'-8" Inswing Double Door; XX	+55 / -55 psf

Product Dimensions:

System	Overall Size	Panel Size	Sidelite Panel Daylight Opening Size
1	37-3/4" x 97-3/4"	35-3/4" x 95-5/16"	N/A
2	37-3/4" x 96-3/4"	35-3/4" x 95-5/16"	N/A
3	147-1/2" x 97-3/4"	36-3/8" x 95-5/16" (with astragal)	21" x 79"
4	147-1/2" x 96-3/4"	35-3/4" x 95-5/16" (with astragal)	21" x 79"
5	105" x 81-3/4"	36-3/8" x 79-5/16" (with astragal)	5-7/8" x 63"
6	105" x 80-3/4"	36-3/8" x 79-5/16" (with astragal)	5-7/8" x 63"
7	74-1/2" x 80-3/4"	36-3/8" x 79-5/16" (with astragal)	N/A

Components and Hardware:

Residential 4" Hinges: three (3) required for Systems 1-2, eight (8) required for Systems 3-4, six (6) required for Systems 5-7; secure to the door panel with four (4) No. 10 x 1" PFH wood screws, and to the door jamb with three (3) No. 10 x 5/8" PFH wood screws and one (1) No. 10 x 2" PFH wood screw.

Lockset: minimum grade 3 rating as defined by ANSI/BHMA A156.2; located on the active door panel.

Deadbolt: grade 1 rating as defined by ANSI/BHMA A156.36; located on the active door panel.

Strike plate- Lock and deadbolt: one of each required; secure with two (2) No. 8 x 2" PFH wood screws.

Astragal strike- strike plate at the head (Systems 3-7): secure with two (2) minimum No. 8 x 2" PFH wood screws.

Astragal strike- sill retainer hole (Systems 3-7): drill hole through sill deep enough for a 1-3/8" throw

Thresholds:

Inswing: 1.375" adjustable sill (Systems 1, 3, 5)

Outswing: 0.96" standard sill (Systems 2, 4, 6)

Inswing: 0.50" aluminum handicap ADA Sill (System 7)

Product Identification (Manufacturer Label on Door):

System		
1-2	Manufacturer's name or code name	Masonite
	Product name	Wood-edge Steel Opaque Door Unit w/ or w/o Non-Impact Sidelites Inswing or Outswing Config: X Max. Nominal Size: 3'-0" x 8'-0"
	Test standards	ASTM E330-02
3-4	Manufacturer's name or code name	Masonite
	Product name	Wood-edge Steel Opaque Door Unit w/ or w/o Non-Impact Sidelites Inswing or Outswing Config: X, XX, OX, XO, OXO, OXXO Max. Nominal Size: 12'-0" x 8'-0"
	Test standards	ASTM E330-02
5-6	Manufacturer's name or code name	Masonite
	Product name	Wood-edge Steel Opaque Door Unit w/ or w/o Non-Impact Sidelites Inswing or Outswing Config: X, XX, OX, XO, OXO, OXXO Max. Nominal Size: 12'-0" x 6'-8"
	Test standards	ASTM E330-02
7	Manufacturer's name or code name	Masonite
	Product name	Wood-edge Steel Opaque Door Unit w/ ADA Sill Inswing Config: X, XX Max. Nominal Size: 6'-0" x 6'-8"
	Test standards	ASTM E330-02

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	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: Only use sidelites with doors. Do not install sidelites individually.

Installation:

Systems 1-2: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing using minimum No. 10 x 2-1/2" PFH wood screws. Along the head and sill, locate the screws approximately 6" from each corner. Along the side jambs, locate the screws 6" from each corner and four more evenly spaced thereafter, totaling six screws. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing members.

Systems 3-7: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The door assembly is secured to the wall framing using minimum No. 10 x 2-1/2" PFH wood screws. Along the head and sill, locate screws approximately 3" and 6" on each side of the mullion, 3" and 6" on each side of the astragal. Along the head, locate one (1) screw at the centerline of each door panel. Along the side jambs, locate the screws approximately 6" from each corner and four (4) more evenly spaced thereafter totaling six (6) screws. Fasteners must be long enough to penetrate a minimum of 1-1/2" into the wood wall framing members.

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.