

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION CWSF-25

Effective February 1, 2013

*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 shall be subject to reevaluation **February 2017**.*

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.

Series MS-375 Aluminum Outswing Hinged Glass Door with Transom System, Non-impact Resistant, manufactured by

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will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The aluminum hinged glass doors evaluated in this report are individual non-impact resistant outswing doors. This product evaluation report is for hinged glass doors based on the following tested construction:

General Description:

System	Description
1	MS-375 Aluminum Pairs Outswing Pivot Hinged Glass Door; (X)
2	MS-375 Aluminum Pairs Outswing Pivot Hinged Glass Door with Transom; (O/XX)
3	MS-375 Aluminum Pairs Outswing Butt Hinged Glass Door with Transom; (O/XX)

Product Dimensions:

System	Overall Size	Panel Size	Transom Size
1	3'-4" x 7'-2"	3'-0" X 7'-0"	NA
2	6'-3 1/2" X 9'-3 1/2"	3'-0" X 7'-0"	6'-3 1/2" x 2'-0"
3	7'-4" X 10'-4"	3'-6" X 8'-0"	7'-4" x 2'-0"

Glazing Description:

System	Glass Construction	Glazing Method
1&3	G-1	GM-1
2	G-2	GM-2

Glazing Description Key:

G-1: 1" sealed insulating glass, 2 pieces of $\frac{1}{4}$ " fully tempered glass with $\frac{1}{2}$ " air spacer.

G-2: $\frac{1}{4}$ " tempered glass.

Glazing Method Description Key:

GM-1: The 1" sealed insulating glass is interior drop-in glazed using an aluminum snap-on glazing bead with a flexible bulb gasket secures the glass on both sides.

GM-2: The $\frac{1}{4}$ " tempered glass is interior drop-in glazed using an aluminum snap-on glazing bead with a flexible bulb gasket secures the glass on both sides.

Frame Construction: The frame members are constructed of extruded aluminum. The frame corners are coped, butt type construction. The frame head corners are secured with two screws per corner. The frame sill is secured with two screws per corner.

Panel Construction: The panel members are constructed of extruded aluminum. The panel are shear block assembly with (4) corner welded joints.

Threshold: A threshold plate is attached to the sill using two screws.

Hardware:

System 1:

- Adams Rite MS-1890 Hookbolt lock assembly
- Pull Handle
- Push Bar
- (2) Offset Pivots located at jamb head and sill

System 2:

- First Choice Concealed Rod Panic Device
- Pull Handle
- Push Bar
- (2) Offset Pivots located at jamb head and sill

System 3:

- Adams Rite MS1850 + 4015 +4016 (3) point lock active panel
- Adams Rite MS-2180 (2) point lock inactive panel
- Pull Handle
- Push Bar
- (3) Butt Hinges located at jambs

Reinforcement: None.

Product Identification: A label will be affixed to the window wall system. The label includes the manufacturer's name; the product name; the design pressure rating.

LIMITATIONS

Design Pressures

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	36"	86"	±50
2	75 ½"	111 ½"	±50
3	88"	124"	±70

Impact Resistance: These window assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These window assemblies will need to be protected with an impact protective system when installed in areas where windborne debris is required.

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

INSTALLATION INSTRUCTIONS

General: The door assembly shall be prepared and installed in accordance with the manufacturers recommended installation instructions. Detailed installation drawings are available from the manufacturer.

Installation:

System 1: The door shall be fastened to minimum Southern Pine lumber using the frame of the door. The jambs, head, and sill are secured to the wall framing with minimum No. 14 X 3" long wood screws. For the jambs, the screws are located 6" from each end and spaced 25" o.c. thereafter. At the frame head and sill, the screws are located 4" from each end and at the midspan. The fasteners shall be long enough to penetrate a minimum of 1 ½" into the wood wall framing.

System 2: The door shall be fastened to minimum Southern Pine lumber using the frame of the door. The jambs, head, and sill are secured to the wall framing with minimum No. 14 X 3" long wood screws. For the jambs, the fasteners shall be located from the sill at 9", 26", 54 ¾", 43", 60", 77", 81", 89", 94" and 107". At the frame head, the screws are located 4" from each end and spaced 17" o.c. thereafter. At the sill, the screws are located from each end at 4", 12", 20", and 35" and one at midspan. The fasteners shall be long enough to penetrate a minimum of 1 ½" into the wood wall framing.

System 3: The door shall be fastened to minimum Southern Pine lumber using the frame of the door. The jambs, head, and sill are secured to the wall framing with minimum No. 14 X 3" long wood screws. For the jambs, the fasteners shall be located from the sill at 4 ½", 22 ½", 40 ½", 57 ½", 75 ½", 93 ½", 100 ½", 110 and 119 ½". At the frame head, the screws are located at 4 ½", 22 ½", and 41" from each end. At the sill, the screws are located from each end at 10", 20", 30" and 44 ½" and one at mid-span. The fasteners shall be long enough to penetrate a minimum of 1 ½" into the wood wall framing.

If the door will be secured to concrete or concrete block, minimum ¼" diameter concrete anchors shall be used. The anchors shall have a minimum penetration of 1" into the concrete or concrete block.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.