



Product Evaluation

DR747 | 0216

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-747

Effective Date: February 1, 2016

Re-evaluation Date: July 2018

Product Name: Weathertight4 Aluminum Clad Wood Glazed Outfold Bi-fold Hinged Doors, Impact Resistant

Manufacturer: Door Innovations
12 Parkway Drive
Houston, TX 77040
(281) 770-0346

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Weathertight4 Aluminum Clad Wood Glazed Outfold Bi-fold Hinged Doors; XXXX	12' x 8' Missile Level D	+55 / -55 psf

Product Dimensions:

System	Overall Door Size	Panel Size	Daylight Opening Size
1	147-1/4" x 101-7/8"	36" x 95"	26-3/4" x 86"

Hardware:

- Surface bolts; eight required; Located as shown on the approved drawings; secured with No. 8 x 2" screws (five at each bottom bolt, seven at each top bolt).
- Surface bolt strike plates; eight required; Located at surface bolt locations at the head and the threshold; secured at the head with two No. 9 x 1-1/4" screws; secured at the threshold with two No. 9 x 1-1/2" screws.

Hardware (continued):

- Butt hinges; six required; Located as shown on the approved drawing; secured to the panel hinge stile with five No. 12 x 2-1/2" screws; the top and bottom hinges secured to the door frame with four No. 10 x 1/2" screws; the center door hinge secured to the frame with two No. 6 x 1" screws.
- Pivot hinges; six required; Located as shown on the approved drawing; each secured to the hinge stiles with five No. 12 x 2-1/2" screws.
- Top hinge head carrier assembly; one required; Located as shown on the approved drawing; secured to the hinge stiles with five No. 12 x 2-1/2" screws.
- Bottom hinge head carrier assembly; one required; Located as shown on the approved drawing; secured to the hinge stiles with five No. 12 x 2-1/2" screws.
- Lock set with latch and deadbolt; Ferco / GU part number for lockset is 6-29239-01-0-8; one required; Located on the locking stile of the single door.
- Latch and deadbolt strike plate; one required; Located on the locking stile of the three-panel door; Secured with three No. 8 x 3/4" screws.

Threshold:

- 3-7/16" high aluminum and wood threshold

Product Identification (Manufacturer Produced Label on Door):

System		
1	Manufacturer	Door Innovations, Inc.
	Product Name	Weathertight Folding Doors
	Test Standards	ASTM E 330-02; ASTM E 1886-05; ASTM E 1996-05; Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1	Yes	The door assemblies satisfy TDI's criteria for protection from windborne debris in both the Inland I and Seaward zones. These assemblies passed an impact criteria of Missile Level D specified in ASTM E 1996. Install these assemblies at any height on the structure that does not exceed the assembly's design pressure rating. These assemblies do not require protection with an impact protective system when installed in areas that require windborne debris protection

Installation:

System		
1	Type of Installation	Install in accordance with Drawing No. 08-012065, Rev. A, titled "Weathertight4 Aluminum Clad Wood Outfold Door - Impact," sheets 1 through 7 of 7, dated June 17, 2013, revised December 09, 2015. Drawings are signed, sealed, and dated December 10, 2015 by Luis R. Lomas, P.E.
	Wall Framing	
	Fasteners	
	Fastener Location/Spacing	
	Fastener Penetration	

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

Note: Keep the manufacturer’s installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.