

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION DR-483

Effective Date: June 1, 2011 (Revised June 1, 2014)
Reevaluation Date: **October 2014**

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.

Series 9050 Aluminum Inswing and Outswing Terrace Doors, Non-impact Resistant, manufactured by:

WinDoor Incorporated
7500 Amsterdam Drive
Orlando, Florida 32832
Telephone: (407) 481-8400
www.windowinc.com

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 9050 Aluminum Terrace Doors; Inswing; Standard Sill; X	SHD-HC100 46 x 120; Neg DP=120	+100 / -120 psf
2	Series 9050 Aluminum Terrace Doors; Outswing; Standard Sill; X	SHD-HC100 46 x 120; Neg DP=120	+100 / -120 psf
3	Series 9050 Aluminum Terrace Doors; Inswing; ADA Sill; X	SHD-HC80 46 x 120; Neg DP=110	+80 / -110 psf
4	Series 9050 Aluminum Terrace Doors; Outswing; ADA Sill; X	SHD-HC80 46 x 120; Neg DP=110	+80 / -110 psf

Product Dimensions:

System	Overall Door Size	Maximum Panel Size	Maximum Panel Daylight Opening Size
1	46" x 120"	42" x 118 1/2"	31 1/16" x 108 1/4"
2	46" x 120"	42" x 118 1/2"	31 1/16" x 108 1/4"
3	46" x 120"	42" x 118 1/2"	31 1/16" x 104 1/16"
4	46" x 120"	42" x 118 1/2"	31 1/16" x 104 1/16"

Hardware:

- Giesse Flash XXL hinges; Three required; Mounted to a retainer clamp located in the Eurogroove of the frame side jamb and the panel stile with three M6 x 12 machine screws. The hinges are secured to the face of the frame side jamb with three No. 10 x 2" screws.
- Snubber (Advantage #1445); Two required; Located approximately 10 inches above and below the hinge located at the panel centerline.

Hardware (continued):

- Giesse #04650 multi-point lock / latch system; One required; Located on the lock stile.
- Locking points; A gear box drives an actuator connected to the multiple locking points with a polyamide rod system located within a Eurogroove. The panel has seven locking points above the gear box and five located below the gear box. Three locking points are located on the head and the sill. Locking points are 'mushroom' style pawls and engage an Advantage #1335-1 keeper located in the frame head, sill, and side jambs. The retainer is secured to the frame side jamb with screws. The keepers are secured to the retainers with screws.

Product Identification:

System		
1	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 167-438
	Product Name	9050 Inswing Aluminum Door (Std Sill)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 167-440
	Product Name	9050 Outswing Aluminum Door (Std Sill)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05
3	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 167-442
	Product Name	9050 Inswing Aluminum Door (ADA Sill)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05
4	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 167-444
	Product Name	9050 Outswing Aluminum Door (ADA Sill)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05

Impact Resistance:

Impact Resistant	Requirement
No	Impact protective system required when product is installed in areas where windborne debris protection is required

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

Installation:

Design Drawings: The doors shall be installed in accordance with Drawing No. 08-01155, titled "Series 9050 Thermally Broken Aluminum Inswing / Outswing Terrace Door – Non-Impact," sheets 1 through 17 of 17, dated November 10, 2010, signed and sealed by Luis R. Lomas., P.E on November 27, 2010. The stated drawings will be referred to as the approved drawings in this evaluation report.

Wall Framing Construction: The doors may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:

- Concrete (minimum compressive strength: 2,000 psi)
- Hollow concrete block (ASTM C-90, Grade N, Type 1 (or greater))
- Wood dimension lumber (minimum Spruce-Pine-Fir)
- Wood backed (minimum Spruce-Pine-Fir) minimum 20 gauge steel, 0.039" minimum.

Installation:

- Refer to Sheets 1 of 17, 2 of 17 of the approved drawings for the anchor layout and notes.
- Refer to Sheets 6 of 17 thru 13 of 17 of the approved drawings for installation details.
- The approved drawings indicate the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

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.