

TEXAS DEPARTMENT OF INSURANCE

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Product Evaluation DR-480

Effective May 1, 2011

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 **October 2013**.

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.

DIVA Aluminum Automatic Sliding Glass Doors, Impact Resistant, manufactured by

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Naples, Florida 34109
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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 the design drawings that are referenced in this product evaluation report.

PRODUCT DESCRIPTION

The DIVA doors are aluminum automatic sliding glass doors. The aluminum automatic sliding glass doors evaluated in this report are impact resistant doors. This product evaluation report is for aluminum automatic sliding glass doors based on the following tested construction:

General Description:

System	Description	Label Rating
1	DIVA Aluminum Automatic Sliding Glass Doors; (OXXO)	Design Pressure: +55/-55 psf Large Missile Impact Rated Maximum Size Tested: 169" x 92"

Product Dimensions:

System	Overall Size	Operable Panel Size	Fixed Panel Size
1	169" x 92"	41 $\frac{3}{16}$ " x 81 $\frac{1}{4}$ "	43 $\frac{5}{8}$ " x 82 $\frac{1}{2}$ "

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	SG-1	GM-1

Note: ¹ See the "Glass Construction Key" for the glazing construction.

² See the "Glazing Method Key" for the glazing method description.

Glass Construction Key:

SG-1: Laminated glass units. The laminated glass unit is comprised of two 1/4" heat strengthened glass lites with a 0.090 inch DuPont SGPlus interlayer.

Glazing Method Description Key:

GM-1: The laminated glass units are channel glazed with DOW Corning 995 silicone sealant.

Frame Construction: The frame members are constructed of extruded aluminum. The frame corners have metal corner gussets and are secured with screws. The semi-fixed panels are designed to be primarily closed, but have the option to be pivoted open. A pivot pin is located at the top and bottom of the semi-fixed panels' jamb stiles. An extruded aluminum threshold is employed under each semi-fixed panel and is attached to the wall framing with four (4) screws. An extruded aluminum cover is secured to the wall framing with three (3) evenly spaced screws.

Panel Construction: The panel members are constructed of extruded aluminum. The panel corners are butted and secured with screws. The sliding panels are attached to a beam that is attached to the trolley system. The beam allows the sliding panels to operate as swinging panels.

Hardware:

- Metal lock assembly; Located on each end of the bottom rail on the lock stile of each sliding leaf.
- Metal keepers; Located on the beam and on the sill.
- Metal throw bolt; Located at each end of the semi-fixed leaves; meeting stile.
- Keepers for the metal throw bolt; Located in the threshold and the head.
- Extruded aluminum motor cover/trolley system with roller guide; One (1) required; Located at the head. The cover is secured to the wall framing with thirty six (36) No. 14 screws.
- Double nylon roller / metal housing with anti-lift wheels; Located at each end of the sliding panel's beams.
- Stainless steel ball bearing; Located on the semi-fixed panel top and bottom rail.

Reinforcement: Steel reinforcement bars are located in and by the lock stile hollow; Extruded aluminum contour-shaped reinforcement is located in the lock stile and in the meeting stile hollows. A steel angle is secured with screws to each end of the head. The reinforcement extends the full length of the members.

Product Identification: A certification program label (NAMI) will be affixed to the door. The certification program label shall include the manufacturer's name; product name: **DIVA Aluminum Automatic Sliding Glass Door**; performance characteristics; the approved inspection agency (NAMI); and the applicable standards: TAS-201, TAS-202, and TAS-203.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	169	92	± 55

Impact Resistance: These door assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I** and the **Seaward zone**. The door assemblies passed an impact criteria equivalent to Missile Level D specified in ASTM E 1996-04. The door assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. These door assemblies will not need to be protected with an impact protective system.

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.

Acceptable Configurations: OXXO, OXX, XXO, OX, XO

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.

Design Drawings: The doors shall be installed in accordance with Drawing No. 08-01027, titled "DIVA' Aluminum Automatic Sliding Door - Impact" sheets 1 through 6 of 6, dated August 03, 2010, signed, sealed, and dated November 01, 2010 by Luis R. Lomas., P.E. 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: 3,200 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) steel (minimum 16 gauge)

Installation:

- Refer to Sheet 1 of 6 of the approved drawings for the anchor layout and notes.
- Refer to Sheets 3 of 6, 4 of 6, and 5 of 6 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) and the International Building Code (IBC).