

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION DR-216

Effective August 1, 2006

*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 3 years after the effective date.*

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 11-11 Vinyl Sliding Glass Doors, 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 Series 11-11 is a vinyl sliding glass door. The sliding glass doors evaluated in this report are impact resistant doors. This product evaluation report is for vinyl sliding glass doors based on the following tested construction:

General Description:

System	Description	Label Rating
1	Series 11-11; Vinyl Sliding Glass Door (OXO)	SGD-R50 108 x 96
2	Series 11-11; Vinyl Sliding Glass Door (OXO)	SGD-R50 144 x 96

Component Dimensions:

System	Overall Door Size	Fixed / Operable Panel Size(s)	Fixed / Operable Panel Glass Size(s)
1	107 1/2" x 95 1/2"	36" x 92 1/2"	28" x 84 3/4"
2	144" x 96"	48 3/4" x 93"/48 1/8" x 93 1/8"	45" x 94 1/4"

PRODUCT DESCRIPTION (Continued)

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1&2	IG-1	GM-1

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

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

Glazing Description Key:

IG-1: The door panels utilize a 1" thick sealed insulating glass unit fabricated from one sheet of $\frac{3}{16}$ " thick tempered glass at the exterior surface and one sheet of $\frac{1}{2}$ " thick laminate glass on the interior surface and a silicone foam spacer system. The laminated glass unit is comprised of two sheets of $\frac{3}{16}$ " thick annealed glass lites with a 0.090 inch PVB interlayer.

Glazing Method Key:

GM-1: The glass is interior glazed onto silicone bedding and secured with snap-in vinyl glazing beads.

Frame Construction: The frame members are manufactured from extruded vinyl (PVC). The corners are mitered and welded.

Panel Construction: The panels are manufactured from extruded vinyl (PVC). The panel corners are mitered and welded construction.

Reinforcement: (System 1) Aluminum reinforcement is utilized in all active and fixed panel members. Aluminum reinforcement is also used in the frame sill.

(System 2) Custom shaped aluminum reinforcement (Drawing #011H04a) is used on the interior and exterior interlock stile and the astragal fixed stile. Custom shaped aluminum reinforcement (Drawing #011HO35B) is used on both end fixed stiles, (Drawing #011H005) is used on the moving rail, and (Drawing #011H007) is used on the center lower of the frame in the head and sill.

Product Identification: A certification program label will be affixed to the window. The certification program label includes the manufacturer's name, performance characteristics and approved inspection agency to indicate compliance with the requirements of AAMA/NWWDA 101/I.S.2 and compliance with AAMA 506-2000.

LIMITATIONS

Design pressures (DP):

System	Overall Width (in.)	Overall Height (in.)	Design Pressure (psf)
1	108	96	± 50
2	144	96	± 50

Impact Resistance: These door assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in both the **Inland I zone and the Seaward zone**. The door assemblies passed Missile Level D specified in ASTM E 1996-02. 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.

INSTALLATION INSTRUCTIONS

General: The door assembly shall be prepared and installed in accordance with the manufacturers recommended installation instructions. The wood wall framing members shall be minimum Southern Yellow Pine lumber.

Installation:

(System 1): The door is secured to the wall framing through the frame head, sill, and jambs with a minimum of No. 10 x 3" long screws, two rows, one in the interior and exterior frame channels. The fasteners are spaced a maximum of 6 inches from each corner and a maximum of 12 inches on center. The exterior perimeter is sealed with silicone.

(System 2): The door is secured to the wall framing through the frame head, sill, and jambs with a minimum of No. 12 x 1 $\frac{3}{4}$ " long screws, two rows, one in the interior and exterior frame channels. The fasteners are spaced a maximum of 6 inches from each corner and a maximum of 12 inches on center. The exterior perimeter is sealed with silicone.

For concrete/masonry, minimum $\frac{3}{16}$ " diameter concrete anchors shall be used. The concrete anchors shall embed a minimum of 1 $\frac{1}{2}$ " into the masonry/concrete.

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.