

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION DR-517

Effective February 1, 2012

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 **September 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.

Series 1500 Aluminum Sliding Glass Doors, Non-Impact Resistant, assembled 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 1500 sliding glass doors are aluminum sliding glass doors. The aluminum sliding glass doors evaluated in this report are non-impact resistant doors. This evaluation report includes aluminum sliding glass doors based on the following tested configuration:

General Description:

System	Description	Label Rating
1	Series 1500 Aluminum Sliding Glass Door; (OOX)	LC-PG30 150 x 83-SD

Component Dimensions:

System	Overall Door Size	Operable Panel Size	Fixed Panel Daylight Opening Size
1	150 $\frac{1}{4}$ " x 83"	One: 50 $\frac{1}{4}$ " x 81"	Two: 46 $\frac{3}{4}$ " x 76 $\frac{7}{8}$ "

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	IG-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:

IG-1: The panels contain a sealed insulating glass unit. The sealed insulating glass unit is comprised of two $\frac{3}{16}$ " fully tempered glass lites separated by a desiccant-filled aluminum spacer system. The glass thickness in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Key:

GM-1: The insulating glass units are marine glazed with a wrap around vinyl channel.

Frame Construction: The frame members are constructed of extruded aluminum. The frame members are thermally broken. There is a retainer clip located 4 inches from each end of the astragal to each fixed panel lite and to each fixed panel jamb. The retainer clip is secured with screws.

Panel Construction: The panel members are constructed of extruded aluminum. The panel members are thermally broken.

Reinforcement: None.

Hardware:

- Lock handle assembly; One (1) required; Located $39\frac{1}{4}$ inches up from the active panel bottom rail.
- Tandem roller assembly; Two (2) required; One located at each end of active panel

Product Identification: A certification program label (AAMA) will be affixed to the assembly. The certification program label shall include the manufacturer's code name (TWI-1); the product name: **9900B SGD**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	$150\frac{1}{4}$	83	± 30

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

Acceptable Configurations: 2 panel (OX, XO) and 3 panel (OOX, XOO, OXO).

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 installed in accordance with the manufacturer's installation instructions. Detailed drawings and installation instructions are available from the manufacturer.

Installation: The door shall be mounted to minimum Southern Yellow Pine lumber. The door shall be mounted to the wood wall framing members using the frame of the door along the head and side jambs. Two rows of minimum No. 8 screws shall be used. The fasteners are located approximately 3 inches

from each corner and approximately 18 inches on center. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ inches into the wood wall framing. Minimum 1" x 1" x $\frac{1}{16}$ " extruded aluminum angles are required along both the interior and exterior side of the frame head, sill, and side jambs. The aluminum angles are secured to the wall framing with minimum No. 8 screws spaced approximately 12 inches on center. All fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ inches into the wood framing. If the sill is secured to concrete, then minimum $\frac{3}{16}$ " diameter concrete anchors shall be used. The concrete anchors shall be long enough to penetrate a minimum of $1\frac{1}{4}$ inches into the 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.