

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION DR-415

Effective July 1, 2010

*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 **February 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 shall not exceed the allowable wind loads shown in 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.

Pinnacle Narrow Aluminum Clad Wood Sliding Doors, Non-impact Resistant, manufactured by

Windsor Windows and Doors
900 South 19th Street
West Des Moines, Iowa 50265
Telephone: (800) 626-3105

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 Pinnacle narrow aluminum clad wood sliding doors evaluated in this report are non-impact resistant doors. This product evaluation report is for Pinnacle narrow aluminum clad wood sliding doors based on the following tested construction:

General Description:

System	Description	Rating
1	Pinnacle Narrow Aluminum Clad Wood Sliding Patio Door; (XO)	SD-LC40 96 x 96

Product Dimensions:

System	Overall Size	Fixed Panel Size	Active Panel Size
1	95 1/2" x 95 1/2"	48" x 93"	48" x 93"

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 fixed panel and the active panel contain a sealed insulating glass unit. The sealed insulating glass units are comprised of two $\frac{5}{32}$ " fully tempered glass lites separated by a desiccant-filled metal steel 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 interior glazed against double-faced foam tape and a full perimeter bead of silicone. Wood glazing stops secure the insulating glass units from the interior.

Frame Construction: The exterior aluminum frame corners are miter cut and sealed with foam gaskets at the head and butyl gaskets at the sill. The interior wood frame members are slide-fit onto the aluminum framing. Wood frame corners are rabbet-cut and secured with screws. The sill is a fiberglass pultrusion. Inside stops are stapled to each frame member.

Panel Construction: Panel corners are coped. Wood dowels are utilized at the top and the bottom corners and held in place with screws.

Hardware:

- Tandem rollers; Two (2) required; Located on the active panel bottom rail
- Stat panel brackets; Two (2) required; Located at the fixed interlock
- Handle set; One (1) required; Located on the active panel

Product Identification: A certification program label (AAMA) will be affixed to the door. The certification program label shall include the manufacturer's code name (**WND-1** or **WND-2**); product name: **Pinnacle Clad 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	95 $\frac{1}{2}$	95 $\frac{1}{2}$	± 40

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.

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 assemblies shall be installed in accordance with the manufacturer's installation instructions and this product evaluation report. Detailed drawings are available from the manufacturer.

Installation: Wall framing shall be minimum Southern Yellow Pine dimension lumber. The doors shall be secured to the wall framing using the integral aluminum nailing fin along the head and side jambs with

minimum $1\frac{3}{4}$ " long, 11 gauge, smooth shank, roofing nails. The fasteners are spaced approximately 4 inches from each corner and approximately 10 inches on center along the head and the side jambs of the door. Along the sill, three (3) No 8 screws are required at the meeting stile. One (1) is located directly below the meeting stile and one (1) is located approximately 6 inches on either side of the meeting stile. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ inches into the wall framing. If the floor is concrete, then minimum $\frac{1}{4}$ " diameter concrete screws may be used. The concrete anchors shall embed a minimum of $1\frac{1}{4}$ inches into the concrete. The sill is secured with a continuous bed of silicone sealant.

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.