

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION DR-229

Effective Date: August 1, 2013
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.

Aluminum Clad Wood French Outswing Hinged Doors, Impact Resistant, manufactured by

Lincoln Wood Products, Inc.
1400 W. Taylor Street
Merrill, Wisconsin 54452
Telephone: (715) 536-2461

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Aluminum Clad Wood French Outswing Hinged Door; XX	HGD-R50 74 x 96 Missile Level D	± 50 psf
2	Aluminum Clad Wood French Outswing Hinged Door; OX	HGD-R50 74 x 96 Missile Level D	± 50 psf

Product Dimensions:

System	Overall Size	Panel Size	Daylight Opening Sizes
1	74" x 95 1/2"	Active Panel: 35 3/4" x 93 1/2" Passive Panel: 35 3/4" x 93 1/2"	26 1/8" x 81 1/8"
2	74" x 95 1/2"	Active Panel: 35 3/4" x 93 1/2" Passive Panel: 35 3/4" x 93 1/2"	26 1/8" x 81 1/8"

Hardware:

- **Hinges:** The door panel has four (4) adjustable hinges. The hinges are secured to the door frames with two (2) No. 10 x 3/4" screws and two (2) No. 10 x 2 1/2" screws. Note: The No. 10 x 2 1/2" screws are used to secure the door frame to the wall framing. The hinges are secured to the door panels with four (4) No. 8 x 1 1/4" screws.
- **5-point lock with deadbolt/strike plates:** Located on the active panel stile with shoot bolts at the top and the bottom of the door panel. The latch and deadbolt strike plate require two (2) No. 8 x 3/4" screws and one (1) No. 8 x 2 1/2" screw. Shoot bolt strike plates are secured to the head and the sill as indicated in the installation instructions.
- **2-point shoot bolt/strike plates:** Located on the passive panel locking stile at the top and the bottom of the panel; Shoot bolt strike plates are secured to the head and to the sill as indicated in the installation instructions.

Hardware (continued):

- **Handle set:** Located on the active panel lock stile, 36" from the bottom rail.

Product Identification (Certification Agency Label on Door):

System		
1-2	Certification Agency	AAMA
	Manufacturer's Name or Code Name	LN-1
	Product Name	Clad French Outswing Door
	Test Standards	AAMA/NWWDA 101/I.S.2-97 AAMA 506-00; Missile Level D

Impact Resistance:

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

Installation:

System 1: The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The door assembly shall be secured to the wall framing using the applied nailing flange and with masonry clips. The applied nailing flange is secured to the wall framing along the head and side jambs with minimum 2" long, 11 gauge, smooth shank roofing nails. The fasteners shall be spaced approximately 2 inches from each corner and approximately 8 inches on center. Along the head and each side jamb, masonry clips (1 1/2" x 6 1/2" x 0.05") are secured to the door frame with two (2) No. 10 x 3/4" screws per clip and are secured to the wall framing with two (2) No. 6 x 1" screws. The masonry clips are required approximately 4 inches from each corner and approximately 16 inches on center. Each hinge has two (2) No. 10 x 2 1/2" screws through the hinge and into the wall framing. The fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the wall framing. The head strike plate has two (2) No. 10 x 3/4" screws. The sill strike plate has two (2) No. 8 x 1 1/2" screws. The sill is secured to the framing with silicone sealant.

System 2: The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The door assembly shall be secured to the wall framing using the applied nailing flange and with masonry clips. The applied nailing flange is secured to the wall framing along the head and side jambs with minimum 2" long, 11 gauge, smooth shank roofing nails. The fasteners shall be spaced approximately 2 inches from each corner and approximately 7 inches on center. Along the head and each side jamb, masonry clips (1 1/2" x 6 1/2" x 0.05") are secured to the door frame with two (2) No. 7 x 3/4" screws per clip and are secured to the wall framing with two (2) No. 6 x 1" screws. The masonry clips are required approximately 3 inches from each corner and approximately 29 inches on center. Each hinge has two (2) No. 10 x 2 1/2" screw through the hinge and into the wall framing. The fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the wall framing. The head strike plate has four (4) No. 8 x 2 1/2" screws. The sill strike plate has four (4) No. 8 x 2 1/2" screws. The sill is secured to the framing with 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.