

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION
DR-228

Effective Date: September 1, 2012 (Revised July 1, 2013)
Reevaluation Date: **November 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 Outswing 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 Outswing Door; X	HGD-LC50 38 x 96 Missile Level D	± 50 psf
2	Aluminum Clad Wood Outswing Door; OX	HGD-LC50 74 x 96 Missile Level D	± 50 psf

Product Dimensions:

System	Overall Size	Panel Size	Daylight Opening Sizes
1	38 1/4" x 95 1/2"	36 1/2" x 93 1/4"	26 1/8" x 81 3/16"
2	74" x 95 1/2"	36" x 93 5/16"	26 1/8" x 81 3/16"

Hardware:

Hinges: The door panel has four (4) adjustable hinges. The hinges are secured to the door frames with two (3) No. 10 x 3/4" screws and two (2) No. 10 x 2 1/2" screw. 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.

3-point lock with deadbolt/strike plates (System 1): 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 with two (2) No. 8 x 2 1/2" screws.

5-point lock with deadbolt/strike plates (System 2): Located on the active panel stile with shoot bolts located at the top and bottom of the active and the passive panels. 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 with two (2) No. 8 x 2 1/2" screws.

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	Certification Agency	AAMA
	Manufacturer's Name or Code Name	LN-1
	Product Name	Clad Outswing Door
	Test Standards	AAMA/NWWDA 101/I.S.2-97 AAMA 506-06; Missile Level D

System		
2	Certification Agency	AAMA
	Manufacturer's Name or Code Name	LN-1
	Product Name	Clad Outswing Two Wide
	Test Standards	AAMA/NWWDA 101/I.S.2-97 AAMA 506-06; 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 Southern Yellow Pine dimension lumber. The door assembly shall be secured to the wall framing using the applied nailing flange and with installation clips. The applied nailing flange is secured to the wall framing along the head and side jambs with minimum 12 gauge roofing nails (minimum 2" long smooth shank diameter). The fasteners shall be spaced approximately 8 inches from each corner and approximately 8 inches on center. Installation clips (minimum 20 gauge galvanized steel; 1.5" x 7.0") are secured to the door frame with two (2) No. 6 x 3/4" screws per clip and are secured to the wall framing with two (2) No. 6 screws. Along the head and each side jamb, a clip is required approximately 2 inches from each end. Along each side jamb, a clip shall be located at the mid span. All fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the wall framing. The nailing flange is silicone sealed to the door frame. The sill is secured to the framing with silicone sealant.

System 2: The wall framing shall be minimum Southern Yellow Pine dimension lumber. The door assembly shall be secured to the wall framing using the applied nailing flange and with installation clips. The applied nailing flange is secured to the wall framing along the head and side jambs with minimum 12 gauge roofing nails (minimum 2" long smooth shank diameter). The fasteners shall be spaced approximately 7 inches from each corner and approximately 7 inches on center. Installation clips (minimum 20 gauge galvanized steel; 1.5" x 7.0") 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 screws. Along the head and each side jamb, a clip is required approximately 3 inches from each end and approximately 23 inches on center. All fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the wall framing. The nailing flange is silicone sealed to the door frame. 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) and the International Building Code (IBC) and the Texas Revisions.