

TEXAS DEPARTMENT OF INSURANCE

Engineering Services / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION DR-170

Effective April 1, 2011

*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 **November 2014**.*

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.

Prime Wood French Outswing Doors, Non-impact Resistant, manufactured by

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

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 prime wood French outswing doors evaluated in this report are non-impact resistant. This product evaluation report is for prime wood French outswing doors based on the following tested constructions:

General Description:

System	Description	Label Rating
1	Prime Wood French Outswing Door; XX	HGD-C30 74 x 96

Component Dimensions:

System	Overall Size	Panel Sizes	Daylight Opening Sizes
1	74" x 95 1/2"	Active: 35 3/4" x 93 1/2" Passive: 37" x 93 1/2"	27 1/16" X 82"

Glazing Description:

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

Note: ¹ See the "Glass Construction Key" for the glass construction.

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

Glass Construction Key:

IG-1: Sealed insulating glass units. The sealed insulating glass units are comprised of two $\frac{5}{32}$ " fully tempered glass lites separated by an aluminum spacer system. The glass thickness used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-02.

Glazing Method Key:

GM-1: The insulated glass units are set from the interior onto a bed of silicone sealant. Wood glazing stops secure the insulating glass units in place from the interior. The wood glazing stops are secured to the frame with brads spaced 6 to 8 inches on center.

Frame Construction: The frame members consist of finger jointed pine sections. The frame corners are square cut, rabbeted, sealed, and secured with screws. The frame sill, manufactured by Lincoln, is a three-part assembly. The wood sill member utilizes extruded aluminum cladding which is secured to the wood with staples. An oak threshold is applied to the interior profile, sealed with silicone, and secured with screws. A brickmould is secured to the frame at the head and side jambs with $2\frac{1}{2}$ " wire nails spaced approximately 9 inches on center. The brickmould is mitered at the head and secured together with at the corners with one (1) screw per corner.

Panel Construction: The panel members consist of veneer wrapped LVL members at the stiles and at the rails. The panel corners are mortise and tenon, glued, butted, and secured with dowels. The astragal is glued to the passive panel stile and secured with screws. An astragal stop is attached to the astragal with 1" wire brads spaced 11 to 14 inches on center.

Hardware:

Hinges: Each door has four adjustable hinges. The hinges are secured to the door frames with three (3) No. 10 x $\frac{3}{4}$ " screws and one (1) No. 10 x $2\frac{1}{2}$ " screw. Note: The No. 10 x $2\frac{1}{2}$ " screw is used to secure the door frame to the wall framing. The hinges are secured to the door panels with four (4) No. 8 x $1\frac{1}{4}$ " screws.

Hoppe 3-point lock with deadbolt/strike plates: Located on the active panel lock stile. The strike plates are secured to the door with No. 8 x $\frac{3}{4}$ " screws. Two (2) screws required at the top and bottom strike plates. Three (3) screws are required center strike plate. Two (2) No. 8 x $2\frac{1}{2}$ " screws are required to secure the latch strike plate to the wall framing.

Lever activated flushbolt lock system with strike plates: Located on the passive panel at the top and the bottom rail. Two (2) strike plates are required, one adjacent to each flushbolt lock system on the head and the sill, each secured to the wall framing with two (2) No. 8 x $2\frac{1}{2}$ " long screws.

Product Identification: A certification program label (AAMA) will be affixed to the assembly. The certification program label includes the manufacturer's code name (LN-1); product name: **Prime Wood French Outswing Door**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/NWWDA 101/I.S.2-97.

LIMITATIONS

Design pressures (DP):

System	Overall Width (in.)	Overall Height (in.)	Design Pressure (psf)
1	74	$95\frac{1}{2}$	± 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.

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. Detailed installation instructions and drawings are available from the manufacturer.

Installation: The door assembly shall be fastened to minimum Southern Yellow Pine lumber. The door assembly is secured to the wall framing in the following manner:

Brickmould: The brickmould is secured to the wall framing at the head and side jambs with minimum No. 6 x 2 ½" screws spaced approximately 8 to 10 inches on center.

Hinges: Each hinge has one (1) No. 10 x 2 ½" screw that is secured to the wall framing through the door jamb.

Strike Plates: At the strike plate locations at the head and the sill, two (2) No. 8 x 2 ½" long screws secure the strike plates to the wall framing.

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.