

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION WIN-1255

Effective March 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 **October 2010**.*

*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.*

### **WV Clad Wood Hybrid Double Hung Studio Window, 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 WV (vinyl) clad hybrid double hung studio window is a wood window. The WV (vinyl) clad wood hybrid double hung studio windows evaluated in this report are individual, impact resistant windows. This product evaluation report is for WV (vinyl) clad wood hybrid double hung studio windows based on the following tested construction:

#### **General Description:**

System	Description	Label Rating
1	WV (vinyl) clad Wood Hybrid Double Hung Studio Window; (O)	FW-C50 54 x 76 AAMA 506-06

#### **Product Dimensions:**

System	Overall Size	Sash Size
1	53 1/2" x 76 3/8"	51" x 75"

#### **Glazing Description:**

System	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1	IG-1	GM-1

Note: <sup>1</sup> See the "Glass Construction Key" for the glazing construction.

<sup>2</sup> See the "Glazing Method Key" for the glazing method description.

**Glass Construction Key:**

IG-1: The sash contains a sealed insulating glass unit. The sealed insulating glass unit is comprised of a  $\frac{3}{16}$ " annealed glass lite and a laminated glass unit separated by an aluminum spacer system. The laminated glass unit is comprised of two double strength ( $\frac{1}{8}$ " ) annealed glass lites with a 0.090" SGP interlayer. 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 unit is set from the interior against a continuous bed of Nova Flex M418 structural 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 approximately 3 inches on center.

**Frame Construction:** The frame consists of molded pine members. The frame corners are square cut, rabbet joint construction, glued, and secured with staples. **Brickmould:** The brickmould is sealed and secured through the cellular PVC blind stop to the window frame with wire brads. The brickmould corners at the head and sill utilize one (1) screw per corner. The cellular PVC sill nosing is secured to the cellular PVC sill with wire brads.

**Sash Construction:** The sash members consist of molded pine. The sash corners are mortise and tenon construction and are secured with three (3) brads per corner. The sash is secured to the frame from the exterior and secured to the frame with an aluminum L bracket snubber at the frame sill which is secured with screws. The sash is secured to the frame head and side jambs with twist nails. **Vinyl Cladding:** The extruded vinyl cladding is sealed, foam gasket applied, snap-fit to the sash members and secured through the glazing bead with staples.

**Product Identification:** A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**LN-1**); product name: **WV Hybrid Double Hung Studio**; performance characteristics; the approved inspection agency (AAMA); and the applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05 and AAMA 506-06.

**LIMITATIONS**

**Design pressures (DP):**

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	53 $\frac{1}{2}$	76 $\frac{3}{8}$	± 50

**Impact Resistance:** These window assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I** zone and the **Seaward** zone. These window assemblies passed Missile Level D specified in ASTM E 1996-04. The window assembly may be installed at any height on the structure as long as the design pressure rating for the assembly is not exceeded. These window assemblies will not need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

**Acceptance of Smaller Assemblies:** Windows assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

## INSTALLATION INSTRUCTIONS

**General:** The window 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 window shall be secured to minimum Southern Yellow Pine dimension lumber. The window is secured to the wall framing using the cellular PVC brickmould and with installation clips. The brickmould shall be secured to the wall framing along the head and side jambs with minimum 10d x 3 ½" finish nails. The fasteners shall be spaced approximately 6 inches from each corner and approximately 12 inches on center. Installation clips (1 ½" x 6 ½" x 0.05") are secured to the window frame with two (2) No. 6 x ¾" screws per clip and are secured to the wall framing with two (2) minimum 2" long roofing nails (minimum ⅛" smooth shank diameter). The installation clips are spaced approximately 2 inches from each corner and approximately 16 inches on center along the perimeter of the window. All fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing members.

**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.