

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-455

Effective June 1, 2005

*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 3 years after the effective date.*

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.

Series 8000 Vinyl Double Hung Windows, Non-impact Resistant, manufactured by

**Modern Window and Doors, Inc.
2200 Spring Street
Hot Springs, Arkansas 71901
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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 Series 8000 window is a vinyl double hung window. The double hung window evaluated in this report is an individual, non-impact resistant window. This product evaluation report is for vinyl double hung window based on the following tested construction:

General Description:

| System | Description | Label Rating |
|--------|--|---------------|
| 1 | Series 8000; Individual Double Hung Window; (XX) | H-R45 44 x 73 |

Product Dimensions:

| System | Overall Size | Lower Sash Size | Upper Sash Size |
|--------|--------------------------|---|---|
| 1 | 44" x 72 $\frac{7}{8}$ " | 41 $\frac{1}{2}$ " x 34 $\frac{3}{4}$ " | 40 $\frac{5}{8}$ " x 34 $\frac{5}{8}$ " |

Glazing Description:

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

Note: ¹ See the "Glass Description Key" for the glazing construction.

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

Glazing Description Key:

IG-1: Both operable sashes contain sealed insulating glass units. The sealed insulating glass units are comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites separated by a Swiggle™ spacer system.

Glazing Method Key:

GM-1: The insulating glass units are set from the exterior against acrylic backbedding at the interior and the heel of the glass along the full perimeter. A dual durometer snap-in glazing bead secures the insulating glass units from the exterior.

Frame Construction: The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and welded construction.

Sill Insert: A sill insert, manufactured from extruded vinyl (PVC), is required at the interior of the frame sill. The sill insert snaps on to the frame sill.

Sash Construction: The sash members are manufactured from extruded vinyl (PVC). The sash corners are mitered and welded construction.

Reinforcement: Extruded steel C-channel reinforcement is located in the top sash bottom rail and in the bottom sash top rail.

Hardware:

| <u>Description</u> | <u>Location</u> |
|--------------------------|---|
| Cam action locks | Each end of sash top rail, attached with screws |
| Keepers | Attached to upper sash bottom rail with screws |
| Block and tackle balance | Each sash stile |
| Pivot bar | Lower sash and upper sash bottom rails, screw attached |
| Tilt latch | Lower sash and upper sash top rails, attached with screws |

Product Identification: A certification program label will be affixed to the window. The certification program label includes the manufacturer's name, performance characteristics and approved inspection agency to indicate compliance with the requirements of AAMA/NWWDA 101/I.S.2.

LIMITATIONS

Design pressures:

| System | Maximum Width (in.) | Maximum Height (in.) | Design Pressures (psf) |
|--------|---------------------|----------------------|------------------------|
| 1 | 44 | 72 $\frac{7}{8}$ | ± 35 |

Impact Resistance: These window assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These window assemblies will need to be protected with an impact protective system when used in areas where windborne debris protection is required.

Acceptance of Smaller Assemblies: Window 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 installed in accordance with the manufacturer's installation instructions. The wood wall framing members shall be minimum Southern Yellow Pine lumber.

Installation: The window shall be mounted to the wood wall framing members using the frame of the window with minimum No. 8 screws. The fasteners shall be spaced a maximum of 6 inches from each corner and a maximum of 15 inches on center along the perimeter of the window frame. The fasteners shall be long enough to penetrate a minimum of 1 ½" 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) and the International Building Code (IBC) and the Texas Revisions.