

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION WIN-1232

Effective December 1, 2009

*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 **September 2012**.*

*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.*

**R-150 Aluminum Picture Windows, Individual, Non-impact Resistant, manufactured by:**

**NT Windows, Inc.  
4949 Rendon Road  
Fort Worth, Texas 76140  
Telephone: (800) 969-8830**

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 R-150 window is an aluminum fixed window. The aluminum fixed windows evaluated in this report are individual, non-impact resistant windows. This product evaluation report is for aluminum fixed windows based on the following tested construction:

### General Description:

System	Description	Label Rating
1	R-150 Thermally Broken Aluminum Fixed Window; O	FW-C40 60 x 60

### Product Dimensions:

System	Overall Size	Daylight Opening Size
1	60" x 60"	57" x 57"

### 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 Description Key" for the glazing method description.

**Glass Construction Key:**

IG-1: The window contains a sealed insulating glass unit. The sealed insulating glass unit is comprised of two double strength ( $\frac{1}{8}$ " ) annealed glass lites separated by an aluminum butyl composite spacer system. The glass thickness and type used in the insulating glass unit of the tested assembly and in smaller units shall comply with ASTM E 1300-04.

**Glazing Method Description Key:**

GM-1: The insulated glass unit is exterior glazed against a silicone backbedding compound at the interior with a  $\frac{1}{4}$ " vinyl gasket that is kerf mounted to an aluminum glazing bead at the exterior. The glazing bead is secured in place with screws.

**Frame Construction:** The frame members are constructed of extruded aluminum. The frame corners are sealed and secured with two (2) screws per corner.

**Sash Construction:** N/A

**Hardware:** N/A

**Product Identification:** A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**NT-1**); product name: **R-150 PW**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

### LIMITATIONS

**Design pressures (DP):**

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	60	60	$\pm 40$

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

**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 wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The window is secured to the wall framing members using the frame of the window with minimum No. 8 x  $2\frac{1}{2}$ " screws. Along the side jambs, the head, and the sill, the fasteners shall be placed through the glazing bead and into the wall framing, located approximately 4 inches from each corner and approximately 12 inches on center. Minimum nominal 1" x 3" wood stops are required along the exterior and the interior perimeter of the frame. The wood stops are secured to the wall framing with minimum No. 8 x  $1\frac{5}{8}$ " located

approximately 4 inches from each corner and approximately 12 inches on center. All fasteners shall be long enough to penetrate a minimum of  $1 \frac{1}{2}$  inches into 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.