

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1390

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 **May 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.

Hawthorne Equal Lite Vinyl Double Hung Windows, Non-impact Resistant, manufactured by

Pro Window and Door Company, Inc.
4113 Asher Avenue
Little Rock, Arkansas 72204-6327
Telephone: (501) 663-3611

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 Hawthorne equal lite double hung windows are vinyl double hung windows. The vinyl double hung windows evaluated in this report are non-impact resistant windows. This product evaluation report is for vinyl double hung windows based on the following tested constructions:

General Description:

System	Description	Label Rating
1	Hawthorne Equal Lite Vinyl Double Hung Windows; (X/X)	H-R25 44 x 63

Product Dimensions:

System	Overall Size	Interior Sash Size(s)	Exterior Sash Size
1	44" x 63"	40 1/2" x 31 3/8"	39 1/2" x 30 3/8"

Glazing Description:

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

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

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

Glass Construction Key:

IG-1: Sealed insulating glass units. The sealed insulating glass units in the tested assembly are comprised of two single strength ($\frac{3}{32}$ ") annealed glass lites separated by a reinforced butyl spacer system that is embedded in sealant, single sealed. The glass thickness and type used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Description Key:

GM-1: The insulated glass units are set against double-sided adhesive tape. The insulating glass units are secured to the frame with vinyl glazing beads.

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

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

Reinforcement: None.

Hardware:

- Constant force balance with locking tilt shoes; Four (4) required; Two located in each jamb.
- Metal cam lock; Two (2) required; Located at each end of the interior meeting rail with corresponding keepers on the exterior meeting rail.
- Flush mounted tilt latches; Four (4) required; Located in the lock and top rails, one at each end.
- Metal pivot bars; Four (4) required; One in each end of the exterior meeting rail and the sash bottom rail.

Product Identification: A certification program label (Keystone) will be affixed to the window. The certification program label includes the performance characteristics and approved inspection agency to indicate compliance with the requirements of AAMA/WDMA/CSA 101/I.S.2/A440-05. The certification program label contains a Certification Authorization Report (CAR) number located on the top right side of the label and a model name for the window. The following CAR number and model name is located on the label:

Label Identification:

System	Model	Certification Authorization Report (CAR) number
1	Hawthorne Equal Lite Double Hung	252-425

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	44	63	± 25

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 installed 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 prepared and installed in accordance with the manufacturer's recommended installation instructions. Detailed installation instructions and drawings are available from the manufacturer.

Installation: The wall framing shall be minimum Spruce-Pine-Fir lumber. The window is secured to the wall framing members using the window frame side jambs and with wood stops. The frame side jambs are secured to the wall framing with minimum No. 8 screws. The fasteners shall be located approximately 6 inches from each corner. Minimum $4 \frac{1}{4}$ " x $\frac{3}{4}$ " x $1 \frac{1}{2}$ " wood stops are required at the mid span of the head, sill, and each side jamb, at the interior and the exterior. Each stop is secured to the wall framing with minimum No. 8 screws. All fasteners shall be long enough to penetrate a minimum of $1 \frac{1}{2}$ inches into the wall framing. The window shall be set in a bed of silicone.

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.