

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
WIN-1354

Effective January 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 **April 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.

Series 4130 Aluminum Single Hung Windows, Individual, Impact Resistant, manufactured by

Peerless Products Inc.
2403 S. Main
Ft. Scott, Kansas 66701
Telephone: (620) 223 - 4610

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 4130 window is an aluminum single hung window. The aluminum single hung windows evaluated in this report are individual, impact resistant windows. This product evaluation report is for aluminum single hung windows based on the following tested construction:

General Description:

System	Description	Rating
1	Series 4130 Aluminum Single Hung Windows; (O/X)	H-AW70 48x72 AAMA 506-06

Product Dimensions:

System	Overall Size	Active Sash Size	Fixed Sash Daylight Opening Size
1	48" x 72"	45 $\frac{3}{4}$ " x 36 $\frac{1}{2}$ "	43 $\frac{7}{8}$ " x 33"

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 Key" for the glazing method description.

Glass Construction Key:

IG-1: Sealed insulating glass units. The sealed insulating glass units are comprised of a 1/4" annealed glass lite and a laminated glass unit that are separated by an aluminum spacer system. The laminated glass unit is comprised of two double strength (1/8") annealed glass lites with a 0.090 inch PVB interlayer.

Glazing Method Description Key:

GM-1: The insulating glass unit is interior glazed with DOW Corning Instaglaze clear hot melt silicone at the exterior face of the insulating glass unit with a silicone heel bead. The insulating glass unit is secured with an aluminum glazing bead.

Frame Construction: The frame members are constructed of extruded aluminum. The frame members are thermally broken. The frame corners are coped, butted, and secured with screws. The fixed interlock is secured to the frame side jambs with screws.

Sash Construction: The sash members are constructed of extruded aluminum. The sash members are thermally broken. The sash corners are coped, butted, and secured with screws.

Hardware:

- Cam lock; Two (2) required; Located 9 inches from each end of the sash top rail.
- Lock keepers; Two (2) required; Located on the fixed interlock adjacent to the cam locks
- Ultra-lift balance; Two (2) required; One in each side jamb.
- Pivot bar; Two (2) required; Located at each end of the sash bottom rail.
- Tilt latch; Two (2) required; Located at each end of the sash top rail.

Product Identification: A certification program label (AAMA) will be affixed to the window. The certification program label shall include the manufacturer's code name (**PP-1**); **Series 4130 Tilt Impact**; 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	48	72	± 70

Impact Resistance: These window assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I** and the **Seaward zone**. The window assemblies passed Missile Level D specified in ASTM E 1996-04. The window assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. 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 drawings are available from the manufacturer.

Installation: The window shall be fastened to minimum Spruce-Pine-Fir dimension lumber. The windows are secured to the wall framing using the frame of the window with minimum No. 12 x 2 ½" screws. The fasteners are located approximately 4 inches from each corner and approximately 12 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 ½ 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) and the International Building Code (IBC).