

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

WIN-640

Effective Date: June 1, 2012

Reevaluation Date: **September 1, 2013**

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 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 10 Aluminum Single Hung Windows, Non-impact Resistant, manufactured by

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

General Description:

System	Description	Label Rating
1	Series 10 Aluminum Single Hung Window; O/X	H-R30 48 x 84
2	Series 10 Aluminum Single Hung Window; O/X	H-R40 36 x 72

Product Dimensions:

System	Overall Size	Sash Size	Fixed Daylight Opening Size
1	48" x 84"	46" x 42 1/2"	43 7/16" x 39 1/16"
2	36" x 72"	34 1/8" x 36 1/8"	31 7/16" x 33 1/16"

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	IG-1	GM-1
2	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 are comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites separated by an Intercept spacer system. The glass thickness and type used in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Description Key:

GM-1: The insulating glass unit in the fixed sash is interior glazed with a silicone bedding compound. A vinyl snap-in glazing bead secures the insulating glass unit in place. The insulating glass unit in the operable sash is marine glazed.

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

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

Reinforcement: None.

Hardware:

- Sweep lock; Two (2) required; Two located on the top rail.
- Keeper; Two (2) required; Located in an extruded pocket on the fixed rail.
- Block and tackle balance; Two (2) required; Located in the side jambs.
- Vent slide; Two (2) required; Secured to the top lateral edge of both stiles
- Vent guide; Two (2) required; Located on the interior leg of the stiles

Product Identification: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (CRO-1), product name: **Series 10 SH**, performance characteristics, the approved inspection agency (AAMA); and the following 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	48	84	± 35
2	36	72	± 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 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 installed in accordance with the manufacturer's installation instructions. Detailed installation instructions and drawings are available from the manufacturer.

Installation: The wall framing shall be minimum Southern Yellow Pine dimension lumber. The window shall be secured to the wall framing using the nailing fin and wood stops. The nailing fin is secured to the wall framing with minimum No. 8 screws. The fasteners are spaced approximately 2 inches from each corner and approximately 8 inches on center. Minimum $1\frac{1}{2}$ " x $1\frac{1}{4}$ " wood stops shall be placed over the nailing fin, along the exterior perimeter of the window. The wood stops shall be fastened to the wall framing with minimum No. 8 x $1\frac{3}{4}$ " screws. The fasteners shall penetrate through the nailing fin and into the wall framing. The fasteners shall be spaced approximately $3\frac{1}{2}$ inches from each corner and one (1) at the mid-span of each member. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ inches into the wood 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.