

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1412

Effective June 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 2014.

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.

WISP™ Series 1000, Model FI - Aluminum Picture Windows with Interior Pull-Down Fabric Curtain System, 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 WISP™-Series 1000 FI-aluminum picture window is a "Fully Integrated Picture Window." The picture window includes a roll-up impact protective fabric membrane curtain located in the window header that is deployed manually to the inside of the window frame. The aluminum picture windows evaluated in this report are individual, impact resistant windows. This product evaluation report is for aluminum picture windows based on the following tested constructions:

General Description:

System	Description	Label Rating
1	WISP™ Series 1000 Model FI- Aluminum Picture Windows; (O)	FW-C65 48 x 72 ASTM E 1886 / ASTM E 1996
2	WISP™ Series 1000 Model FI- Aluminum Picture Windows; (O)	FW-C50 72 x 72 ASTM E 1886 / ASTM E 1996

Product Dimensions:

System	Overall Size	Fixed Daylight Opening Size
1	48" x 72"	41 ¾" x 62"
2	72" x 72"	65" x 61 ¾"

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	IG-1	GM-1
2	IG-2	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: The window contains a sealed insulating glass unit. The sealed insulating glass unit is comprised two double strength ($\frac{1}{4}$ ") annealed glass lites separated by a stainless steel spacer system. The glass thickness in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

IG-2: The window contains a sealed insulating glass unit. The sealed insulating glass unit is comprised two $\frac{5}{32}$ " annealed glass lites separated by a stainless steel spacer system. The glass thickness in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Key:

GM-1: The insulating glass units are set from the interior against Pectora No. 896 backbedding compound. A rigid vinyl snap-in glazing bead secures the insulating glass units in place.

Frame Construction: The frame members are manufactured from extruded aluminum. The frame corners are coped, butted, and secured with screws. In each frame side jamb, there is an interlocking aluminum extrusion storm curtain guide.

Canister Construction: A canister fully integrated to the surrounding outer frame is located above the frame head and is secured to the frame jambs. The canister is constructed of extruded aluminum. On the interior of the window is a vinyl canister cover and cover extension.

Curtain: The curtain is constructed of a single piece of fabric approximately 0.039" thick of vinyl clad woven polyester fabric material retained in guides via a bonded curtain edge strip of the same material that is approximately $\frac{7}{16}$ " wide. The curtain is anchored to a hollow aluminum rod at the top via double backed tape and is supported at each end of the canister section using slide-in brackets allowing the curtain to be rolled up for storage in the canister. The bottom of each curtain is attached to an aluminum bar spanning the width of the protective curtain. The protective curtain does not require anchorage at the sill when fully deployed or in the closed position. The curtain has the following dimensions:

System 1: 45.68" x 76"

System 2: 69.68" x 76"

Reinforcement: One (1) free floating steel reinforcement is located in each curtain bar. The reinforcement extends the length of the members.

Product Identification: A certification program label (NAMI) will be affixed to the window. The certification program label includes the manufacturer's name; product name: **WISP Series 1000, FI-PW Aluminum Picture Window with Fabric Protection System**; performance characteristics; the approved inspection agency (NAMI); and the applicable standards: AAMA/WDMA./CSA 101/I.S.2/A440-05 and ASTM E1886-05/ASTM E 1996-05.

Acceptance of Smaller Assemblies: Window assemblies with dimensions equal to or smaller than those specified 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 drawings and installation instructions are available from the manufacturer.

Installation:

System 1: The wood wall framing members shall be minimum Southern Yellow Pine dimension lumber. The window shall be secured to the wood wall framing members using the frame of the window with lag screws. Along each side jamb, the fasteners shall be minimum $\frac{1}{4}$ " x 3" lag screws and shall be spaced approximately 8 inches from each corner and one at the mid span. Along the head, the fasteners shall be minimum $\frac{1}{4}$ " x 2" lag screws and shall be spaced approximately 2 inches from each corner and one at the mid span. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ inches into the wall framing members.

System 2: The wood wall framing members shall be minimum Southern Yellow Pine dimension lumber. The window shall be secured to the wood wall framing members using the frame of the window with lag screws. Along each side jamb, the fasteners shall be minimum $\frac{1}{4}$ " x 3" lag screws and shall be spaced approximately 8 inches from each corner and approximately 14 inches on center. Along the head, the fasteners shall be minimum $\frac{1}{4}$ " x 2" lag screws and shall be spaced approximately 6 inches from each corner and approximately 15 inches on center. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ inches 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), the International Building Code (IBC), and the Texas Revisions.