

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1200

Effective November 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 **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 1200 Vinyl Single Hung Windows, Individual and Mulled, Impact Resistant, manufactured by:

**Krestmark Windows
3702 La Reunion Parkway
Dallas, Texas 75212
(214) 237-5055**

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 1200 window is a vinyl single hung window. The vinyl single hung windows evaluated in this report are individual and mulled, impact resistant windows. This product evaluation report is for vinyl single hung windows based on the following tested constructions:

General Description:

System	Description	Label Rating
1	Series 1200 Vinyl Single Hung Windows; Individual; (O/X)	H-R50 36 x 72 AAMA 506-06
2	Series 1200; Vinyl Single Hung Window; Twin; (O/X O/X)	H-R50 71 x 72 AAMA 506-06

Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Daylight Opening Size
1	36" x 72"	33 ⁷ / ₁₆ " x 34 ³ / ₄ "	30 ¹³ / ₁₆ " x 31 ⁷ / ₈ "
2	71 ¹ / ₄ " x 71 ⁵ / ₈ "	34 ¹ / ₂ " x 33 ³ / ₈ "	31 ³ / ₄ " x 30 ¹ / ₂ "

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 fixed and operable sashes contain sealed insulating glass units. The sealed insulating glass unit is comprised of a laminated glass unit and a single strength ($\frac{3}{32}$ ") annealed glass lite separated by an aluminum Swiggle strip spacer system. The laminated glass unit is comprised of two single strength ($\frac{3}{32}$ ") annealed glass lites with a 0.090" interlayer. The glass thickness used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

IG-2: The fixed and operable sashes contain sealed insulating glass units. The sealed insulating glass unit is comprised of a laminated glass unit and a double strength ($\frac{1}{8}$ ") annealed glass lite separated by an aluminum Swiggle strip spacer system. The laminated glass unit is comprised of two single strength ($\frac{3}{32}$ ") annealed glass lites with a 0.090" interlayer. The glass thickness used 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 unit in the operable sash is exterior glazed with Dow Corning 995 silicone backbedding compound at the interior face and heel of the insulating glass unit, full perimeter. A rigid vinyl (PVC) snap-in glazing bead secures the insulating glass units in place from the interior. The insulating glass unit in the fixed sash is interior glazed with Dow Corning 995 silicone backbedding compound at the exterior face and heel of the insulating glass unit, full perimeter. A rigid vinyl (PVC) snap-in glazing bead secures the insulating glass units in place from the interior.

Frame Construction: The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and welded construction. The fixed interlock is secured to the frame with screws.

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

Mullion (System 2): The frame side jambs are mullied to extruded aluminum reinforcement. The mull reinforcement extends the length of the members.

Reinforcement:

System 1: Extruded aluminum reinforcement is utilized in the fixed interlock and in the sash top rail. The reinforcement extends the length of the members. Extruded aluminum reinforcement is located under the tilt latch at each end of the sash attached into the sash top rail reinforcement with tilt latch screws.

System 2: Extruded aluminum reinforcement is utilized in the all sash stiles, in each sash top rail, in each fixed interlock, and in the vertical mullion. The reinforcement extends the length of the members. An extruded aluminum interlock plate is located under the tilt latch at each end of the sash and is attached into the sash top rail reinforcement with tilt latch screws.

Hardware (each window):

- Metallic sweep lock; Two (2) required; Located on the sash meeting rail, 5 ½ inches from each end.
- Keepers; Two (2) required; Located on the fixed interlock rail.
- Block and tackle balance; Two (2) required; Located in each frame jamb.
- Metallic tilt latch; Two (2) required; Located at each end of the sash top rail.

Product Identification:

System 1: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**KR-1**); **Series 1200 SH**; performance characteristics; the approved inspection agency (AAMA); and the applicable standards: ANSI/AAMA/NWWDA 101/I.S.2-97 and AAMA 506-06.

System 2: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**KR-1**); **Series 1200 TWIN MULL SH**; performance characteristics; the approved inspection agency (AAMA); and the applicable standards: ANSI/AAMA/NWWDA 101/I.S.2-97 and AAMA 506-06.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	36	72	± 50
2	71 ¼	71 ⅝	± 50

Impact Resistance: These window assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I zone** 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: 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 installed in accordance with the manufacturer's installation instructions. Detailed installation instructions and drawings are available from the manufacturer.

Installation:

System 1: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be secured to the wall framing using the nailing fin of the window with minimum No. 8 screws. The fasteners shall be spaced approximately 2 inches from each corner and approximately 12 inches on center along the perimeter of the window. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

System 2: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be secured to the wall framing using the nailing fin of the window with minimum No. 8 screws. The fasteners shall be spaced approximately 2 inches from each corner and approximately 12 inches on center along the perimeter of the window. A 1" x 4 $\frac{3}{4}$ " steel strap is anchored to each end of the mull reinforcement with two (2) No. 8 x 1" screws. The strap is anchored to the wall framing with two (2) No. 8 x 1 $\frac{1}{2}$ " screws. The 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.