

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-623

Effective December 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 **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.

Vinyl Double Hung Windows, Non-impact Resistant, manufactured by

Timeline Vinyl Products, Inc.
701 North State Street
P.O. Box 375
Merrill, Wisconsin 54452
(715) 536-2461

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

This evaluation report includes vinyl double hung windows. The vinyl double hung windows evaluated in this report are individual, 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	Vinyl Tilt Double Hung Window; REINF; (X/X)	H-R30 44 x 72
2	Vinyl Tilt Double Hung Window; REINF; MODIF; (X/X)	H-R50 40 x 66
3	Vinyl Tilt Double Hung Window; REINF; MODIF; (X/X)	H-R50 36 x 72

Product Dimensions:

System	Overall Size	Top Sash Size	Bottom Sash Size
1	44" x 72"	39 ³ / ₄ " x 34 ⁵ / ₈ "	41" x 35 ⁷ / ₈ "
2	39 ¹ / ₂ " x 65 ¹ / ₂ "	35 ¹ / ₄ " x 31 ¹ / ₄ "	36 ¹ / ₂ " x 32 ¹ / ₂ "
3	35 ¹ / ₂ " x 71 ¹ / ₂ "	31 ¹ / ₄ " x 34 ¹ / ₂ "	32 ¹ / ₂ " x 35 ¹ / ₂ "

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	IG-1	GM-1
2	IG-1	GM-1
3	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: Both sashes contain a sealed insulating glass unit. The sealed insulating glass units are comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites separated by a U-shaped metal spacer system embedded in sealant. 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 Key:

GM-1: The insulating glass units are set from the interior against continuous silicone backbedding. A rigid vinyl snap-in glazing bead secures the insulating glass unit from the interior on all four sides.

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

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

Reinforcement:

System 1: Extruded aluminum reinforcement is located in the vinyl hollows of the interior and exterior sash meeting rails. The reinforcement extends the length of the members.

Systems 2 and 3: Extruded aluminum reinforcement is located in the vinyl hollows of the interior and the exterior sash meeting rails and the sash stiles. The reinforcement extends the length of the members.

Hardware:

- Metal tilt pin; Four (4) required; Located on the interior and the exterior sash at the bottom sash stiles.
- Vinyl tilt latch; Four (4) required; Located on the interior and the exterior sash ends at the top rails.
- Sweep lock; Two (2) required; Located on the interior sash top rail, 9 inches from the ends.
- Sweep lock keeper; Two (2) required; Located on the exterior sash bottom rail, adjacent to the locks.
- Vinyl sash stop; Two (2) required; Located on the frame jambs at the head.
- Block and tackle balance; Four (4) required; Located on the frame jambs.

Product Identification: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code (**LN-1**); product name: **Timeline Sloped Sill DH**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/NWWDA 101/I.S.2-97.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	44	72	± 30
2	39 ½	65 ½	± 50
3	35 ½	71 ½	± 50

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

Installation: The wood wall framing members shall be minimum Southern Yellow Pine lumber. The window shall be mounted to the wood wall framing members using the integral nailing flange of the window along all four sides with minimum 12 gauge roofing nails (minimum 2" long smooth shank). The fasteners shall be spaced approximately 8 inches from each corner and approximately 8 inches on center along the perimeter of the window frame. The fasteners shall be long enough to penetrate a minimum of 1 ½ 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.