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 Effective November 1, 2009
WIN-1207

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 January 2013.

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 200 Vinyl Single Hung Windows, Non-impact Resistant, manufactured by:

Precision Window & Door
1705 Wallace Drive, Suite 114
Carrollton, Texas 75006
Telephone: (972) 323-4999

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 200 window is a vinyl single hung window. The vinyl single hung window evaluated in this report is an individual, non-impact resistant window. This window is installed using the nailing fin on the window frame. This product evaluation report is for a vinyl single hung window based on the following tested construction:

General Description:

System	Description	Label Rating
1	Series 200 Vinyl Single Hung Window; (O/X)	H-R40 48 x 96

Product Dimensions:

System	Overall Size	Sash Size	Fixed Daylight Opening Size
1	47 ½" x 95 ½"	45 ⅜" x 30"	42 ¾" x 61 ¼"

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: The fixed sash and the operable sash contain sealed insulating glass units. The sealed insulating glass unit in the operable sash is comprised of two double strength ($\frac{1}{8}$") annealed glass lites separated by an aluminum spacer system. The sealed insulating glass unit in the fixed sash is comprised of two $\frac{5}{32}$" fully tempered glass lites separated by an aluminum spacer system. The glass thickness in the insulating glass units 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 fixed sash is set from the interior against Pecora 896 structural silicone sealant at the exterior of the insulating glass unit. A vinyl glazing bead secures the insulating glass unit in place at the interior. The insulating glass unit in the operable sash is set from the exterior against Pecora 896 structural silicone sealant at the interior of the insulating glass unit. A vinyl glazing bead secures the insulating glass unit at the exterior.

Frame Construction: The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and welded construction. The fixed interlock is attached to the frame side jambs through the reinforcement with one (1) screw at each end.

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

Reinforcement: Custom shaped extruded aluminum reinforcement is located in the fixed meeting rail. The reinforcement extends the full length of the member.

Hardware:

- Cam action lock; Two (2) required; Located 8 $\frac{3}{4}$ inches from each end of the sash top rail.
- Lock keepers; Two (2) required; Located on the fixed meeting rail and secured through the reinforcement.
- Plastic tilt latch; Two (2) required; Located at each end of the sash top rail.
- Steel pivot bar; Two (2) required; Located at each end of the sash bottom rail.
- Spiral type sash balance with tilt locking shoe; Two (2) required; Located in each side jamb.

Product Identification: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**PWD-1**); product name; **Series: 200 SH**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	47 $\frac{1}{2}$	95 $\frac{1}{2}$	$\pm$ 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: 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 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 located approximately 4 inch from each corner and approximately 4 ½ inches on center along the perimeter of the window. The fasteners shall be long enough to penetrate 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); the International Building Code (IBC); and the Texas Revisions.