TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION Effective May 1, 2005
WIN-309

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 3 years after the effective date.

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 5400 Vinyl Double Hung Windows, Individual Windows, Non-impact Resistant, manufactured by:

The Don Young Company
8181 Ambassador Row
Dallas, TX 75247
(214) 630-0934

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 5400 window is a vinyl double hung window. The 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	Individual Double Hung Windows; (XX)	H-LC25 52 x 84
2	Individual Double Hung Windows; (XX)	H-R40 43 x 59

Product Dimensions:

System	Overall Size	Upper Sash Size	Lower Sash Size
1	52" x 84"	$47\frac{15}{16}$" x $40\frac{3}{4}$"	$48\frac{15}{16}$" x $41\frac{3}{4}$"
2	$43\frac{1}{8}$" x 59"	$38\frac{15}{16}$" x $28\frac{5}{16}$"	40" x $29\frac{1}{4}$"

Glazing Description:

System	Glass Construction [1]	Glazing Method [2]
1	IG-1	GM-1
2	IG-1	GM-1

Note: [1] See the "Glass Description Key" for the glazing construction.
[2] See the "Glazing Method Key" for the glazing method description.

Glazing Description Key:
IG-1: Both sashes contain sealed insulating glass units. The sealed insulating glass units are comprised of two double strength (⅛") annealed glass lites separated by a desiccant-filled Stainless steel spacer system or equivalent "Dura-Seal" spacer system.

Glazing Method Key:
GM-1: The insulating glass units are set from the exterior against silicone backbedding. A rigid vinyl snap-in glazing bead secures the insulating glass units from the exterior.

Frame Construction: The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and thermally 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 utilized in all of the rails and in all of the stiles.
System 2: Extruded aluminum reinforcement is utilized in the lock rails, keeper rails, and bottom lift rails.

Hardware:

Description	Location
Cam locks	Each end of sash meeting rail
Coil balance	Two per sash
Tilt pin	Lower sash corners
Tilt latch	Upper sash corners

Product Identification: A certification program label will be affixed to the window. The certification program label includes the manufacturer's name, performance characteristics and approved inspection agency to indicate compliance with the requirements of AAMA/NWWDA 101/I.S.2.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	52	84	± 25
2	43 ⅛	59	± 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 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. The wood wall framing members shall be minimum Southern Yellow Pine lumber.

Installation: The window shall be mounted to the wood wall framing members using the nailing fin of the window with minimum No. 8 screws. The fasteners shall be spaced a maximum of 2 inches from each corner and a maximum of 6 inches on center along the perimeter of the window frame. The fasteners shall be long enough to penetrate a minimum of 1 ½" 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) and the International Building Code (IBC) and the Texas Revisions.