

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-603

Effective February 1, 2006

*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.

TR-4800 Vinyl Single Hung Replacement Windows, Non-impact Resistant, manufactured by

TRACO
71 Progress Avenue
Cranberry Township, PA 16066
(724) 776 - 7000

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 TR-4800 single hung window is a vinyl replacement window. The single hung window evaluated in this report is an individual, non-impact resistant window. This product evaluation report is for a single hung window based on the following tested construction:

General Description:

System	Description	Label Rating
1	TR-4800: Individual Vinyl Tilt-In Single Hung Replacement Window; (O/X)	H-LC25 44 x 77

Product Dimensions:

System	Overall Size	Operable Sash Size	Fixed Daylight Opening Size
1	44" x 77"	41 1/4" x 38 1/4"	39 9/16" x 36 7/16"

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	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.

PRODUCT DESCRIPTION (continued)

Glazing Description Key:

IG-1: The operable sash and the fixed sash contain sealed insulating glass units. The sealed insulating glass units are comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites separated by a desiccant-filled metal spacer system.

Glazing Method Description Key:

GM-1: The insulating glass units are interior drop-in glazed and set in a bead of silicone along the perimeter of the unit. An exterior snap-in single leaf dual durometer rigid vinyl glazing bead secures the insulating glass units in place.

Frame Construction: The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and welded construction. The fixed meeting rail is coped, butted, and secured to the jambs with two (2) screws per corner.

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

Reinforcement: Two extruded aluminum reinforcements are utilized in the interlocking rail of the operable sash. The reinforcement extends the length of the members.

Hardware:

<u>Description</u>	<u>Location</u>
Sweep locks with keepers	Bottom sash meeting rails
Keepers	Slots in the top sash meeting rail
Constant force balance shoes	One set per jamb
Plastic tilt latch	Each end of top rail of the bottom sash
Pivot bar	Each end of the bottom horizontal rails

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/NWDA 101/I.S.2.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	44	77	± 25

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: Windows 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 prepared and installed in accordance with the manufacturers recommended installation instructions. Detailed installation instructions and drawings are available from the manufacturer.

Installation: The window shall be fastened to minimum Spruce-Pine-Fir lumber using wood stops. Minimum $\frac{1}{2}$ " x $\frac{3}{4}$ " wood stop are located along the exterior and interior perimeter side of the window frame. The wood stops are secured to the wall framing with minimum No. 6 screws. The fasteners shall be spaced a maximum of 3 inches from each corner and a maximum of 12 inches on center along the jambs, head, and sill. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ " into the wood 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.