

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION

WIN-1714

Effective Date: February 1, 2013

Reevaluation Date: **April 2014**

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 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 4150 Aluminum Fixed Windows, Impact Resistant, manufactured by

Thermal Windows

12805 East 31st Street

Tulsa, OK 74146-2310

Telephone: (918) 663-7580

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 4150 Aluminum Fixed Window	F-R80 48 x 84; AAMA 506 Negative Design Pressure = -100 psf	+80, -100

Product Dimensions:

System	Overall Size
1	48" x 84"

Product Identification (Certification Agency Label on Window):

System		
1	Certification Agency	AAMA
	Manufacturer's Name or Code Name	TWI-1
	Product Name	4150
	Test Standards	AAMA/WDMA/CSA 101/I.S.2 2-97; AAMA 506

Impact Resistance:

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

Installation:

System	Type of Installation	New Construction
	Wall Framing	Southern Pine
	Fasteners	Minimum No. 8 Screws
1	Fastener Location/Spacing	The window unit is set into an aluminum frame receptor located at the head, sill and jambs. Sill clips (part no. THM-1354), 2 ½ inches long, are attached at the exterior sill flashing with two (2) No. 8 x 1 ½ inch long screws at each clip. The clips are located 1' from each end and spaced 12" o.c. along the sill. The screws run through each clip into the wood framing. The frame head and jambs are secured with retainers within the frame receptor into the wood framing using No. 8 x 1 ½ inch long screws located 3" from each end and spaced 10" o.c. thereafter. The receptor is sealed to the window and wood framing at the exterior with polyurethane Vulkem.
	Fastener Penetration	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.