

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / 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-1160

Effective Date: November 1, 2013
 Reevaluation Date: **January 2016**

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 400/475 Vinyl Fixed Windows, Individual, Muller, and with Transom, New and Replacement Construction, Non-Impact Resistant, manufactured by

Krestmark Windows
 3950 Bastille Road
 Suite 100
 Dallas, Texas 75212
 Telephone: (214) 237-5055

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 400/475 Vinyl Fixed Window; O	FW-R60 72 x 72	± 60 psf
2	Series 400/475 Vinyl Fixed Window; O	FW-R65 48 x 84	± 65 psf
3	Series 400/475 Vinyl Fixed Window; O	FW-R50 72 x 84	± 50 psf
4	Series 400/475 Vinyl Twin Fixed Window; OO	R-PG50 88 x 84-FW (MULL)	± 50 psf
5	Series 400/475 Vinyl Fixed Window w/ Transom; O/O	R-PG50 48x72-FW (MULL)	± 50 psf
6	Series 400/475 Vinyl Fixed Window w/ Transom; O/O	R-PG50 72x96-FW (MULL)	± 50 psf

Product Dimensions:

System	Overall Size	Fixed Daylight Opening
1	71 ½" x 71 ½"	69" x 69"
2	47 ½" x 83 ½"	43 ½" x 78 ½"
3	71 ½" x 83 ½"	69" x 78 ½"
4	87 ½" x 83 ½"	Two: 41" x 78 ½"
5	47 ½" x 71 ½"	Fixed Window: 45" x 45" Transom: 21" x 45"
6	71 ½" x 95 ½"	Fixed Window: 69" x 57" Transom: 69" x 33"

Product Identification:

System		
1, 2, 3	Certification Agency	AAMA
	Manufacturer's Name or Code Name	KR-1
	Product Name	400/475 Vinyl Fixed
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05
4	Certification Agency	AAMA
	Manufacturer's Name or Code Name	KR-1
	Product Name	400/475 TWIN PW
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05
5, 6	Certification Agency	AAMA
	Manufacturer's Name or Code Name	KR-1
	Product Name	400/475 PW w/Transom
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08

Impact Resistance:

Impact Resistant	Requirement
No	Impact protective system required when product is installed in areas where windborne debris protection is required

Installation:

Systems 1, 2, and 3 (New Construction): The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be secured to the wall framing using the nailing fin of the window with minimum No. 8 screws. A fastener shall be located approximately 2 inches from each corner and spaced approximately 12 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.

System 3 (Replacement Construction): The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be secured to the wall framing using the frame of the window with minimum No. 8 screws. A fastener shall be located approximately 5 inches from each corner and spaced approximately 20 ½ 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.

System 4 (New Construction): The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be secured to the wall framing using the nailing fin of the window with minimum No. 8 screws. A fastener shall be located approximately 2 inches from each corner and spaced approximately 12 inches on center along the perimeter of the window frame. In addition, anchor clips are attached to the common jamb screw boss at the head and sill. The anchor clips are secured to the wood wall framing with two (2) No. 8 screws. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

System 4 (Replacement Construction): The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be secured to the wall framing using the frame of the window with minimum No. 8 screws. A fastener shall be located approximately 5 inches from each corner and spaced approximately 20 ½ inches on center along the perimeter of the window frame. In addition, anchor clips are attached to the common jamb screw boss at the head and sill. The anchor clips are secured to the wood wall framing with two (2) No. 8 screws. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

Installation (Continued):

Systems 5 and 6 (New Construction): The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The window shall be secured to the wall framing using the nailing fin of the window with minimum No. 8 screws. A fastener shall be located approximately 2 inches from each corner and spaced approximately 12 inches on center along the perimeter of the window frame and $1\frac{1}{2}$ inches above and below the horizontal mullion. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ 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.