



Product Evaluation

WIN388 | 0415

Engineering Services Program

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.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: WIN-388 **Effective Date:** April 1, 2015
Re-evaluation Date: January 2016

Product Name: Ultra Sterling Aluminum Clad Wood Operating Double Hung Windows, Non-Impact Resistant

Manufacturer: Kolbe & Kolbe Millwork, Inc.
1323 South Eleventh Avenue
Wausau, WI 54401
(715) 842-5666

General Description:

System	Description	Label Rating	Design Pressure Rating	Hallmark Certification
1	Ultra Sterling Wood Operating Double Hung	LC-PG50 46x80-H	+50 / -55 psf	413-H-1129.05
2	Ultra Sterling Wood Operating Double Hung	LC-PG65 46x80-H	+65 / -65 psf	413-H-1129.00
3	Ultra Sterling Wood Operating Double Hung	LC-PG50 46x80-H	+50 / -55 psf	413-H-1182.00 413-H-1182.01

Product Dimensions:

System	Overall Size	Top Sash Size	Bottom Sash Size
1	45-1/2" x 80-7/16"	42-3/16" x 38-1/4"	42-3/16" x 40-1/8"
2	45-1/2" x 80-7/16"	42-3/16" x 38-1/4"	42-3/16" x 40-1/8"
3	45-1/2" x 80-7/16"	42-3/16" x 39"	42-3/16" x 40-1/8"

Product Identification (Certification Label on Window):

System		
1, 2	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Sterling Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08
3	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Sterling Double Hung
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA/WDMA/CSA 101/I.S.2/A440-08

Impact Resistance:

System	Impact Resistant	Requirement
1, 2, 3	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:

Option 1: Fasten the assembly to minimum Southern Yellow Pine lumber. Secure the assembly to the wall framing using Kolbe & Kolbe metal installation clips. Secure the installation clips (1-5/8" x 10-1/16" x 0.04") to the frame side jambs, head, and sill. Secure the clips to the frame with two (2); No. 8 x 3/4" screws. Secure the clips to the wall framing with one (1); No. 8 x 1-3/4" screw. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing. The table below specifies the clip spacing.

Installation Clip Spacing:

System	Distance From Each Corner	Head (on center spacing)	Sill (on center spacing)	Side Jambs (on center spacing)
1, 2	Head: 15-3/16" Side Jambs: 16-1/8"	15-3/16"	None	16-1/8"

Option 2: Fasten the assembly to minimum Southern Yellow Pine lumber. Secure the assembly to the wall framing using the frame with minimum No. 10 screws. Use fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing. The table below specifies the fastener spacing.

Fastener Spacing:

System	Distance From Each Corner	Head (on center spacing)	Sill (on center spacing)	Side Jambs (on center spacing)
1, 3	Head: 15-3/16" Side Jambs: 11-1/2"	15-3/16"	None	11-1/2"
2	Head: 11-3/8" Side Jambs: 8-15/16"	11-3/8"	None	8-15/16"

Nailing Flange (Options 1, 2, and 3): Secure the nailing flange to the wall framing with minimum 12-gauge smooth shank roofing nails spaced 7" on center along the perimeter of the window.

Note: Keep the manufacturer's installation instructions at the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.