



Product Evaluation

WIN791 | 0914

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-791

Effective Date: August 1, 2013

Revised: September 1, 2014

Re-evaluation Date: July 2015

Product Name: Ultra Aluminum Clad Wood Operating Casement Windows,
Individual and Mullled, Non-Impact Resistant

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

General Description:

System	Description	Label Rating	Design Pressure Rating	Hallmark Certification
1	Ultra Casement Operator	CW-PG85 36 x 72 – C C-C85 36 x 72	+85/-85 psf	413-H-1101.00 413-H-1101.01
2	Ultra Operating Casement Mullled	LC-PG65 72 x 72 – C C-C65 72 x 72	+75/-75 psf	413-H-1156.00 413-H-1156.01
3	Ultra Operating Casement Mullled	R-PG70 72x72-C C-R70 72x72	+70/-70 psf	413-H-1106.00 413-H-1106.01
4	Ultra Operating Inswing Casement	CW-PG35 36 x 72-C	+35 / -40 psf	413-H-1257.00 413-H-1257.01

Product Dimensions:

System	Overall Size	Operable Sash Size
1, 4	36" x 72"	34-1/16" x 70-1/8"
2, 3	72" x 72"	Two: 34-1/8" x 70-1/8"

Product Identification (Certification Agency Label on Window):

System		
1	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Casement Operator
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA/WDMA/CSA 101/I.S.2/A440-08
2, 3	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Operating Casement Mull
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA/WDMA/CSA 101/I.S.2/A440-08
4	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Inswing Casement
	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
1-4	No	Impact protective system required when product is installed in areas where windborne debris protection is required.

Installation:

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

System	Distance From Each Corner	Head (on center spacing)	Sill (on center spacing)	Side Jambs (on center spacing)
1	Head/Sill: 18" Side Jambs: 12"	None	None	12"
2, 3	Head/Sill: 18" Side Jambs: 14-7/8"	None	None	14-7/8"
4	Head/Sill: 18.25" Side Jambs: 24"	None	None	24"

Option 2: Fasten window assembly to minimum Southern Yellow Pine lumber. Secure window assembly to the wall framing using the window frame with minimum No. 10 screws. Fasteners shall be long enough to penetrate a minimum of 1-1/2" into the wall framing. Fastener spacing is specified in the table below.

System	Distance From Each Corner	Head (on center spacing)	Sill (on center spacing)	Side Jambs (on center spacing)
1	Head/Sill: 12" Side Jambs: 9"	None	None	9"
2, 3	Head/Sill: 12" Side Jambs: 12"	12	12	12"
4	Head/Sill: 18-1/4" Side Jambs: 18"	None	None	18"

Nailing Fin (all units): Secure the window assembly nailing fin to the wall framing with minimum 12-gauge smooth shank roofing nails. Space fasteners approximately 7" from each corner and 7" on center along the perimeter of the window.

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.