



Product Evaluation

WIN1485 | 0416

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-1485

Effective Date: April 1, 2016

Re-evaluation Date: April 2017

Product Name: Ultra Aluminum Clad Wood Double Hung Transom Windows, 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 Aluminum Clad Wood Double Hung Transom	CW-PG65 96x60-FW	+65 / -65 psf	413-H-1231.12 413-H-1231.13
2	Ultra Sterling Aluminum Clad Wood Double Hung Transom	CW-PG75 96x60-FW	+75 / -80 psf	413-H-1247.00 413-H-1247.01
3	Ultra Aluminum Clad Wood Double Hung Direct Set Transom; Mulled	CW-PG70 72x84-FW CW-PG70 36x84-FW	+70 / -75 psf	413-H-1231.07 413-H-1231.08 413-H-1231.09 413-H-1231.11
4	Ultra Aluminum Clad Wood Double Hung Direct Set Transom; Mulled	CW-PG70 96x60-FW CW-PG70 48x60-FW	+70 / -75 psf	413-H-1231.02 413-H-1231.03 413-H-1231.04 413-H-1231.06

Product Dimensions:

System	Overall Size	Individual Size
1	96" x 60"	96" x 60"
2	96" x 60"	96" x 60"
3	72" x 84"	36" x 84"
4	96" x 60"	48" x 60"

Product Identification (Certification Label on Window):

System		
1	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Double Hung Transom
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA/WDMA/CSA 101/I.S.2/A440-08
2	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Sterling Double Hung Transom
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA/WDMA/CSA 101/I.S.2/A440-08
3, 4	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra DH Transom Direct Set Mulled
	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, 4	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:

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

Installation Clip Spacing:

System	Distance From Each Corner	Head (on center spacing)	Sill (on center spacing)	Side Jambs (on center spacing)
1	Head/Sill: 12 Side Jambs: 15"	12"	12"	15"
2	Head/Sill: 10-11/16" Side Jambs: 15"	10-11/16"	10-11/16"	15"
3	Head/Sill: 18" Side Jambs: 16-13/16"	N/A	N/A	16-13/16"
4	Head/Sill: 16" Side Jambs: 15"	16"	16"	15"

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

Fastener Spacing:

System	Distance From Each Corner	Head (on center spacing)	Sill (on center spacing)	Side Jambs (on center spacing)
1	Head/Sill: 8-3/4" Side Jambs: 12"	8-3/4"	8-3/4"	12"
2	Head/Sill: 8" Side Jambs: 10"	7-1/4"	7-1/4"	10"
3	Head/Sill: 12" Side Jambs: 12"	12"	12"	12"
4	Head/Sill: 12" Side Jambs: 10"	12"	12"	10"

Mullions (Systems 3 and 4): Two Gemini Clips (Installation clips reversed, 1-5/8" x 10-1/16" x 0.04") required at each end of each mull. The clips are secured to the window frame with one No. 7 x 5/8" sheet metal screw and two No. 8 x 2-1/4" PFH sheet metal screws. The clips are secured to the wall framing with two No. 8 x 1-3/4" screws. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

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

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