

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

WIN-1881

Effective Date: April 1, 2014
Reevaluation Date: **November 2015**

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.

Ultra Aluminum Clad Wood Fixed Casement with Awning, Non-Impact Resistant, manufactured by

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

General Description:

System	Description	Label Rating	Design Pressure Rating (psf)	Hallmark Certification
1	Ultra Clad Wood Fixed Casement with Awning	LC-PG65 72 x 108-AP	+65, -70	413-H-1192.00 413-H-1192.01 413-H-1192.02 413-H-1192.03
2	Ultra Clad Wood Fixed Casement with Awning	LC-PG70 96 x 108-AP AP-C70 96 x 108	+70, -70	413-H-1177.00 413-H-1177.01
3	Ultra Clad Wood Fixed Casement with Awning	LC-PG75 96 x 108-AP	+75, -75	413-H-1210.00 413-H-1210.01 413-H-1210.02 413-H-1210.03

Product Dimensions:

Overall Size (System 1): 72.00" x 108.00"

Overall Size (System 2): 96.00" x 108.25"

Overall Size (System 3): 96.00" x 108.25"

Fixed Window:

System	Overall Size	Sash Size
1	72.00" x 72.00"	70.06" x 70.06"
2	96.00" x 72.00"	94.13" x 70.13"
3	96.00" x 72.00"	94.50" x 70.00"

Awning Windows:

System	Overall Size	Sash Size
1	72.00" x 36.00"	Two: 34.06" x 34.06"
2	96.00" x 36.00"	Two: 46.13" x 34.13"
3	96.00" x 36.00"	Two: 46.13" x 34.13"

Product Identification (Certification Agency Label on Window):

System	Certification Agency	WDMA
1, 3	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Fixed Casement w/Awning, Mulled
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 AAMA/WDMA/CSA 101/I.S.2/A440-08
	Certification Agency	WDMA
2	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Fixed Casement w/Awning, Mulled
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-05
	Certification Agency	WDMA

Impact Resistance:

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

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 shall 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 (Fixed):

System	Distance From Each Corner	Head, Sill (on center spacing)	Side Jambs (on center spacing)
1, 2	Head Only: 14 13/32" Side Jambs: 12"	Head Only: 14 13/32"	12"
3	Head Only: 9 5/8" Side Jambs: 12"	Head Only: 9 5/8"	12"

Installation Clip Spacing (Awning):

System	Distance From Each Corner	Sill (on center spacing)	Side Jambs (on center spacing)
1, 3	Sill: 18" Side Jambs: 12"	Sill Only: 18"	12"
2	Sill: 16" Side Jambs: 18"	Sill Only: 16"	18"

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 ½ inches into the wall framing. The spacing of the fasteners is specified in the table below.

Fastener Spacing (Fixed):

System	Distance From Each Corner	Head, Sill (on center spacing)	Side Jambs (on center spacing)
1	Head Only: 10 5/16" Side Jambs: 9"	Head Only: 10 5/16"	9"
2	Head Only: 8 3/4" Side Jambs: 10 1/4"	Head Only: 8 3/4"	10 1/4"
3	Head Only: 8" Side Jambs: 9"	Head Only: 13"	9"

Fastener Spacing (Awning):

System	Distance From Each Corner	Head, Sill (on center spacing)	Side Jambs (on center spacing)
1, 2	Sill: 12" Side Jambs: 12"	N/A	12"
3	Sill: 9 5/8" Side Jambs: 12"	Sill Only: 9 5/8"	12"

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

Horizontal Mullion (Options 1, 2, 3): The horizontal mullion is secured to the wall framing with a steel anchor plate and an 18 gauge steel anchor clip at each end of the mullion. The anchor plate is interlocked with the mullion stiffeners. The anchor clips are secured to the window side jambs with six No. 8 x 3/4" screws and with four No. 8 x 2 1/4" screws. The anchor clips are secured to the wall framing with eight No. 8 x 1 1/4" screws.

Vertical Mullion Attachment (Options 1, 2, 3): The mull anchors are two Gemini clips located at the bottom mull end. The Gemini clips are secured to the mull with two No. 8 x 2 1/4" screws. The Gemini clips are secured to the wall framing with two No. 8 x 1 1/4" screws.

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.