

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION
WIN-1486

Effective Date: April 1, 2014 (Revised July 1, 2014)
Reevaluation Date: **December 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.

Ultra Magnum Aluminum Clad Wood Double Hung Windows with Double Hung Transom, 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	Hallmark Certification
1	Ultra Magnum Clad Wood Double Hung Window with Transom	LC-PG35 92.25x104.44 – H	+35 / -40 psf	413-H-1240.00 413-H-1240.01 413-H-1240.02 413-H-1240.03 413-H-1240.04
2	Ultra Magnum Clad Wood Double Hung Window with Transom	LC-PG50 92.25x104.44 – H	+50 / -55 psf	413-H-1249.00 413-H-1249.01 413-H-1249.02 413-H-1249.03 413-H-1249.04

Product Dimensions:

System 1: Overall Size: 92.25" x 104.44"

System 2: Overall Size: 92.25" x 104.44"

Double Hung Windows:

System	Double Hung Window Size	Top Sash Size	Bottom Sash Size
1	46.13" x 77.19"	41.68" x 36.87"	41.68" x 37.94"
2	46.13" x 77.19"	41.68" x 36.87"	41.68" x 37.94"

Transom Window:

System	Transom Window Size	Transom Sash Size
1	92.25" x 27.00"	89.94" x 26.81"
2	92.25" x 27.00"	89.94" x 26.81"

Product Identification (Certification Agency Label on Window):

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

Horizontal Mullion: 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 $\frac{3}{4}$ " screws and with four No. 8 x $2\frac{1}{4}$ " screws. The anchor clips are secured to the wall framing with eight No. 8 x $1\frac{1}{4}$ " screws.

Vertical Mullion: The vertical mullion is secured to the wall framing with two Kolbe & Kolbe metal installation (Gemini) clips ($1\frac{5}{8}$ " x $10\frac{1}{16}$ " x 0.04"). The clips are secured to the window frame with two No. 8 x $2\frac{1}{4}$ " screws. The clips are secured to the wall framing with two No. 8 x $1\frac{3}{4}$ " screws.

Windows:

Option 1 (Installation clips): The window assembly is secured to the wall framing using Kolbe & Kolbe metal installation clips ($1\frac{5}{8}$ " x $10\frac{1}{16}$ " x 0.04"). The clips are secured to the window frame with two No. 8 x $\frac{3}{4}$ " screws. The clips are secured to the wall framing with one No. 8 x $1\frac{3}{4}$ " screw. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ inches into the wall framing. **Transom:** Along the side jambs, the fasteners shall be spaced $13\frac{1}{2}$ inches from each corner. Along the head, the fasteners shall be spaced $23\frac{1}{16}$ inches from each corner and on center. **Double Hung:** Along the side jambs, the fasteners shall be spaced $15\frac{7}{16}$ inches from each corner and on center.

Option 2 (Screws): 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 $1\frac{1}{2}$ inches into the wall framing. The spacing of the fasteners is specified in the table below.

Transom: Along the side jambs, the fasteners shall be spaced $13\frac{1}{2}$ inches from each corner. Along the head, the fasteners shall be spaced $18\frac{7}{16}$ inches from each corner and on center.

Double Hung: Along the side jambs, the fasteners shall be spaced $12\frac{7}{8}$ inches from each corner and on center.

Nailing Flange (both options): The perimeter of the window is secured with minimum 12 gauge smooth shank roofing nails spaced 7 inches on center penetrating through the nailing flange. 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.