

# TEXAS DEPARTMENT OF INSURANCE

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**PRODUCT EVALUATION**  
WIN-1049

Effective Date: October 1, 2013  
Reevaluation Date: **March 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 Sterling Aluminum Clad Wood Double Hung Windows with Transoms, 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 Sterling Aluminum Clad Wood Double Hung Windows with Transom	LC-PG65 46 x 110-H H-LC65 46 x 110	+65, -65	413-H-1193.00 413-H-1193.01
2	Ultra Sterling Aluminum Clad Wood Double Hung Windows with Transom	LC-PG60 91 x 110 - H	+60, -65	413-H-1220.00 413-H-1220.01 413-H-1220.02 413-H-1220.03 413-H-1220.04

## Product Dimensions:

**Overall Size (System 1):** 45.50" x 109.94"

**Overall Size (System 2):** 91.00" x 110.19"

## Double Hung Windows:

System	Double Hung Window Size	Top Sash Size	Bottom Sash Size
1	One: 45.50" x 80.44"	42.19" x 39.00"	42.19" x 40.13"
2	Two: 45.50" x 80.44"	42.19" x 39.00"	42.19" x 40.13"

**Transom Windows:**

System	Transom Size	Sash Size
1	45.50" x 29.50"	43.19" x 27.87"
2	91.00" x 29.50"	86.37" x 27.87"

**Product Identification (Certification Agency Label on Window):**

System	Certification Agency	WDMA
1	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Sterling Double Hung w/Transom
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-05
	Certification Agency	WDMA
2	Manufacturer's Name or Code Name	Kolbe & Kolbe Millwork Co., Inc.
	Product Name	Ultra Sterling Double Hung Mull w/Transom
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08
	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 (2) No. 8 x 3/4" screws. The clips are secured to the wall framing with one (1) 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 (Transom):**

System	Distance From Each Corner	Head (on center spacing)	Side Jambs (on center spacing)
1	Head: 11 3/8" Side Jambs: 14 3/4"	11 3/8"	14 3/4"
2	Head: 18 3/16" Side Jambs: 14 3/4"	18 3/16"	14 3/4"

**Installation Clip Spacing (Double Hung):**

System	Distance From Each Corner	Sill (on center spacing)	Side Jambs (on center spacing)
1	Sill: N/A Side Jambs: 13 3/8"	N/A	13 3/8"
2	Sill: N/A Side Jambs: 13 3/8"	N/A	13 3/8"

**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 (Transom):**

System	Distance From Each Corner	Head (on center spacing)	Side Jamb (on center spacing)
1	Head: 9 ⅛" Side Jamb: 14 ¾"	9 ⅛"	14 ¾"
2	Head: 18 ⅜" Side Jamb: 14 ¾"	18 ⅜"	14 ¾"

**Fastener Spacing (Double Hung):**

System	Distance From Each Corner	Sill (on center spacing)	Side Jamb (on center spacing)
1	Sill: N/A Side Jamb: 8 15/16"	N/A	8 15/16"
2	Sill: N/A Side Jamb: 8 15/16"	N/A	8 15/16"

**Nailing Flange (Options 1 and 2):** 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 Attachment:**

**System 1:** Two Gemini installation clips are attached at each end of the mullion. (A Gemini clip is two installation clips installed reversed.) The Gemini clips are attached to the mullions using two (2) No. 8 x 1 ½" flat head sheet metal screws that go through the clip into the mullion. A No. 8 x 7/8" screw secures the clip to the adjacent window frame. These clips are attached to the wall framing with two (2) No. 8 screws.

**System 2:** The mullion is reinforced with one continuous ¼" x 3 ½" x 91" steel mull stiffener. The mull stiffener is secured to the sill of the transom unit with No. 8 x ¾" screws. The transom above is secured with No. 8 x 1 ½" screws driven through the transom sill frame, through the holes in the steel stiffener, and into the double hung head jamb below. One end of the mull stiffener is fastened with a 3S Anchor that is secured with an anchor plate and 18 gauge galvanized sheet metal anchor clip. The mull stiffener is interlocked at the end to the anchor plate with one ½" x 1 ½" bolt. The sheet metal anchor clip and plate are attached to the side jamb with six (6) No. 8 x ¾" screws and four (4) No. 8 x 2 ¼" screws. The anchor clip is attached to the wall framing with No. 8 x 1 ¼" screws. The other end of the mull stiffener is fastened with a Strip Anchor that is secured to the wall framing with four (4) No. 12 x 1 ¾" screws. The mullion stiffener is interlocked at the end to the galvanized strip anchor plate that has a ¼" x ½" x 1 ½" stainless steel pin.

**Vertical Mullion Attachment (System 2):** The mull anchors are two Gemini clips at the bottom mull end. The Gemini clips are secured to the mull with two (2) No. 8 x 2 ¼" screws. The Gemini clips are secured to the wall framing with two (2) No. 8 x 1 ¼" 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.