



# Product Evaluation

WIN1987 | 0515

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-1987 **Effective Date:** May 1, 2015  
**Re-evaluation Date:** May 2019

**Product Name:** Integrity Composite Clad, Double-Hung (Fixed Lite) Round Top Windows, New and Replacement Construction, Individual, Impact Resistant

**Manufacturer:** Integrity from Marvin Windows and Doors  
1320 9th Street NE  
West Fargo, ND 58078  
(800) 587-2712

**General Description:**

System	Description	Label Rating	Design Pressure Rating
1, 2	Composite Clad, Wood Double-Hung (Fixed Lite) Round Top Windows; New Construction; Individual (O)	LC-PG55 (72 X 29) Missile Level D	+55 / -65 psf
3, 4	Composite Clad, Wood Double Hung (Fixed Lite) Round Top Windows; Replacement Construction; Individual (O)	LC-PG55 (83 X 83) Missile Level D	+55 / -65 psf

**Product Dimensions:**

System	Overall Size	Fixed Sash Daylight Opening Size
1,2	72-1/16" x 29-9/16"	68-1/16" x 25-9/16"
3,4	83-1/8" x 83-1/8"	79-1/8" x 79-1/8"

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

System		
1-4	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Integrity from Marvin Windows and Doors
	Product Name	Integrity IMPACT Double-Hung Round Top IZ3
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E 1886-05 & ASTM E 1996-09 Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1-4	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

**Installation:**

System		
1, 3 (FIN)	Type of Installation	New Construction – Wood Frame
	Wall Framing	Spruce-Pine-Fir Dimension lumber (Minimum)
	Nail Fain Fasteners	Minimum 11-gauge, 2" smooth shank galvanized roofing nail
	Nail Fin Fastener Location/Spacing	Drive fasteners through the nail fin around the entire window perimeter at 4" from each corner centerline and at 7" on center (maximum) thereafter.
	Installation Clip	<p>Prior to installing the window, the installer shall attach a 5/8" x 3.500" filler board of either #2 Southern Pine or Exterior Grade C Plywood across the window unit sill section. The filler board shall be attached to the window unit sill with No. 8 x 1-1/4" drywall screws placed 7/8" from the interior edge and spaced 10" from each end and spaced at 12" on center.</p> <p><u>Clip to window unit:</u> Secure the clip to the window unit with three No. 7-19 x 5/8" Type AB-17 full thread screws.</p> <p><u>Clip to wall framing:</u> Secure the clip to the wall framing with three minimum No. 8 x 2" drywall screws.</p> <p>Place installation clips around the entire window perimeter at 6" from each corner centerline and at 18" on center (maximum) thereafter.</p> <p>Refer to the accompanying drawing No. 00089844 for detailed installation instructions.</p>
Fastener Penetration	Minimum 1-1/2" into the wall framing	

**Installation (Continued):**

System	Type of Installation	Replacement Construction – Wood Frame
2, 4 (NO FIN)	Wall Framing	Spruce-Pine-Fir Dimension lumber (Minimum)
	Structural Bracket	<p>Prior to installing the window, the installer shall attach a 5/8" x 3.500" filler board of either #2 Southern Pine or Exterior Grade C Plywood across the window unit sill section. The filler board shall be attached to the window unit sill with No. 8 x 1-1/4" drywall screws placed 7/8" from the interior edge and spaced 10" from each end and spaced at 12" on center.</p> <p><u>Structural bracket to window unit (i.e., filler board):</u> Secure each bracket to the window unit filler board with two No. 7-19 x 5/8" Type AB-17 full thread screws.</p> <p><u>Structural bracket to wall framing:</u> Secure each bracket to the wall framing with two No. 8 x 2-3/4" drywall screws.</p> <p>Place installation clips around the entire window perimeter at 6" from each corner centerline and at 12" on center (maximum) thereafter.</p> <p>Refer to the accompanying drawing No. 00089839 for detailed installation instructions.</p>
	Fastener Penetration	Minimum 1-1/2" into the wall framing

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