

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION
WIN-1783

Effective Date: October 1, 2013
Reevaluation Date: **November 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.

Model 9060 TB Aluminum Casement Windows, Impact Resistant, manufactured by

WinDoor Incorporated
7500 Amsterdam Drive
Orlando, Florida 32832
Telephone: (407) 481-8400
www.windowinc.com

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Model 9060 TB Aluminum Casement; X	CW-PG100 37 x 84-Type C; Neg DP=140; Missile Level D	+100 psf / -140 psf
2	Model 9060 TB Aluminum Casement; X	CW-PG90 37 x 84-Type C; Missile Level D	+90 psf / -90 psf
3	Model 9060 TB Aluminum Casement Twin; XX	AW-PG90 74 x 72-Type C; Missile Level D	+90 psf / -90 psf

Product Dimensions:

System	Overall Size	Operable Sash Size
1	37.00" x 84.00"	One: 35.00" x 82.00"
2	37.00" x 84.00"	One: 35.00" x 82.00"
3	74.00" x 72.00"	Two: 35.00" x 70.00"

Product Identification (Certification Agency Label on Window):

System	Certification Agency	Keystone
1	Manufacturer's Name or Code Name	CAR 167-527; CAR 167-797
	Product Name	Model 9060 TB Aluminum Impact EL/Flange Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-02; ASTM E 1996-02; Missile Level D

Product Identification (Certification Agency Label on Window) - Continued:

System		
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 167-526; CAR 167-796
	Product Name	Model 9060 TB Aluminum Impact EL/Flange Casement
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-02; ASTM E 1996-02; Missile Level D
3	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 167-525; CAR 167-790
	Product Name	Model 9060 TB Al Imp EL/Flange Casement Combo Assembly
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-02; ASTM E 1996-02; Missile Level D

Impact Resistance:

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

Installation:

System		
1, 2	Type of Installation	Replacement – Through Frame
	Wall Framing	Wood (Spruce-Pine-Fir); Concrete (minimum compressive strength of 3,192 psi); Masonry (ASTM C-90); Steel (18 gauge, 33 ksi); or Aluminum ($\frac{1}{8}$ " thick 6063-T5)
	Fasteners	Wood: No. 14 wood screw; Concrete: $\frac{1}{4}$ " diameter Tapcons; Metal No. 14 SMS or self drilling screws
	Fastener Location/Spacing	The windows shall be installed in strict accordance with this product evaluation report and WinDoor Incorporated drawings 08-01904, sheets 1 – 9 of 9, dated January 23, 2013, signed and sealed by Luis R. Lomas, P.E. on January 24, 2013
	Fastener Penetration	Wood: Minimum of $1\frac{7}{16}$ inches into the wall framing; Concrete: Minimum of $1\frac{1}{4}$ inches into the wall framing; Metal: Minimum 3 threads beyond structure interior wall.

Installation (Continued):

System	Replacement – Through Frame	
3	Type of Installation	
	Wall Framing	Wood (Spruce-Pine-Fir); Concrete (minimum compressive strength of 3,192 psi); Masonry (ASTM C-90); Steel (18 gauge, 33 ksi); or Aluminum ($\frac{1}{8}$ " thick 6063-T5)
	Fasteners	Wood: No. 14 wood screw; Concrete: $\frac{1}{4}$ " diameter Tapcons; Metal No. 14 SMS or self drilling screws
	Fastener Location/Spacing	The windows shall be installed in strict accordance with this product evaluation report and WinDoor Incorporated drawings 08-01953, sheets 1 – 9 of 9, dated January 23, 2013, signed and sealed by Luis R. Lomas, P.E. on January 24, 2013
	Fastener Penetration	Wood: Minimum of $1\frac{7}{16}$ inches into the wall framing; Concrete: Minimum of $1\frac{1}{4}$ inches into the wall framing; Metal: Minimum 3 threads beyond structure interior wall.

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.