

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION

WIN-1853

Effective Date: February 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.

Model 9066 TB Aluminum Awning 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 9066 TB Aluminum Awning with PVB Interlayer; X	CW-PG100 54 x 36-Type AP; Neg DP=120 Missile Level D; DP +90/-90	+90 psf / -90 psf
2	Model 9066 TB Aluminum Awning with SGP Interlayer; X	CW-PG100 54 x 36-Type AP; Neg DP=120 Missile Level D	+100 psf / -120 psf
3	Model 9066 TB Aluminum Awning Twin with PVB Interlayer; XX	CW-PG90 108 x 36-Type AP Missile Level D	+90 psf / -90 psf
4	Model 9066 TB Aluminum Awning Twin with SGP Interlayer; XX	CW-PG100 108 x 36-Type AP; Neg DP=120 Missile Level D	+100 psf / -120 psf

Product Dimensions:

System	Overall Size	Operable Sash Size
1	54.00" x 36.00"	One: 52.00" x 34.00"
2	54.00" x 36.00"	One: 52.00" x 34.00"
3	108.00" x 36.00"	Two: 52.00" x 34.00"
4	108.00" x 36.00"	Two: 52.00" x 34.00"

Product Identification (Certification Agency Label on Window):

System	Certification Agency	Keystone
1	Manufacturer's Name or Code Name	Two Labels: CAR 167-530; CAR 167-1005
	Product Name	Model 9066 TB Al Imp EL/Flange Awning Model 9066 TB Al Imp EL/Flange Awning
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-02/04/05 ASTM E 1996-02/04/06/09; Missile Level D
	Certification Agency	Keystone
2	Manufacturer's Name or Code Name	Two Labels: CAR 167-531; CAR 167-1005
	Product Name	Model 9066 TB Al Imp EL/Flange Awning Model 9066 TB Al Imp EL/Flange Awning
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-02/04/05 ASTM E 1996-02/04/06/09; Missile Level D
	Certification Agency	Keystone
3	Manufacturer's Name or Code Name	Two Labels: CAR 167-528; CAR 167-1007
	Product Name	Model 9066 TB Al Imp EL/Flange Awning Comb Ass'y XX
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-02/04/05 ASTM E 1996-02/04/06/09; Missile Level D
	Certification Agency	Keystone
4	Manufacturer's Name or Code Name	Two Labels: CAR 167-529; CAR 167-1008
	Product Name	Model 9066 TB Al Imp EL/Flange Awning Comb Ass'y XX
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-02/04/05 ASTM E 1996-02/04/06/09; Missile Level D
	Certification Agency	Keystone

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:

Design Drawings: The windows shall be installed in accordance with the following drawings:

Systems 1 and 2: Drawing No. 08-01945, titled "Series 9066 Awning Window Large Missile Impact," sheets 1 through 9 of 9, dated January 14, 2013, signed and sealed by Luis R. Lomas., P.E on March 04, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

Systems 3 and 4: Drawing No. 08-01950, titled "Series 9066 Awning Twin Window Large Missile Impact," sheets 1 through 9 of 9, dated March 5, 2013, signed and sealed by Luis R. Lomas., P.E on March 06, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

Wall Framing Construction: The windows may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:

- Concrete (minimum compressive strength: 3,192 psi)
- Hollow concrete block (ASTM C-90, Grade N, Type 1 (or greater))
- Wood dimension lumber (minimum Spruce-Pine-Fir)
- Metal (steel: 18 gauge, 33 ksi; Aluminum: 6063-T5, 1/8" minimum thick)

Installation Details:

- Refer to Sheets 1 of 9 thru 2 of 9 of the approved drawings for the anchor layout and notes.
- Refer to Sheets 5 of 9 thru 8 of 9 of the approved drawings for installation details.
- The approved drawings indicate the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

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.