

# 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-1699

Effective Date: January 1, 2013

Reevaluation Date: **February 2015**

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 9030 TB Aluminum Removable Sash Fixed Windows, Large Missile Impact Rated, 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 (psf)
1	Model 9030 TB Aluminum Removable Sash Fixed Window; (O)	FW-AW110 90 x 80; Missile Level D	± 110
2	Model 9030 TB Aluminum Removable Sash Fixed Window; (O)	FW-AW100 60 x 120; Missile Level D	± 100
3	Model 9030 TB Aluminum Removable Sash Fixed Triple Muller; (O/O/O)	FW-C90 145 x 98; Missile Level D	± 90
4	Model 9030 TB Aluminum Removable Sash Fixed Triple Muller; (O/O/O)	FW-C90 145 x 120; Missile Level D	± 90

### Product Dimensions:

System	Overall Size
1	90" x 80"
2	60" x 120"
3	145 $\frac{3}{16}$ " x 98" (Three: 46" x 95 $\frac{31}{32}$ " )
4	145 $\frac{3}{16}$ " x 120" (Three: 46" x 117 $\frac{31}{32}$ " )

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

System		
1	Certification Agency	Keystone
	Manufacturer's Name or Code Name	WinDoor, Inc. CAR 167-477; CAR 167-276
	Product Name	9030 TB Aluminum Imp Fixed
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886-05/E1996-05
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	WinDoor, Inc. CAR 167-476; CAR 167-275
	Product Name	9030 TB Aluminum Imp Fixed
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886-05/E1996-05
3	Certification Agency	Keystone
	Manufacturer's Name or Code Name	WinDoor, Inc. CAR 167-473; CAR 167-272
	Product Name	9030 TB Aluminum Imp Triple Fixed Mull'd Ass'y
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886-05/E1996-05
4	Certification Agency	Keystone
	Manufacturer's Name or Code Name	WinDoor, Inc. CAR 167-472; CAR 167-271
	Product Name	9030 TB Aluminum Imp Triple Fixed Mull'd Ass'y
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886-05/E1996-05

**Impact Resistance:**

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the <b>Inland I</b> and <b>Seaward zone</b> . 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		
1-4	Type of Installation	Replacement – Through Frame
	Wall Framing	Wood (Spruce-Pine-Fir); Concrete (minimum compressive strength of 2,000 psi); Masonry (ASTM C-90); Steel (2X Backed (SPF), 20 gauge (0.039" min), 33 ksi)
	Fasteners	Wood: No. 12 wood screw; Concrete: ¼" diameter Tapcons; Metal: No.12 wood screws
	Fastener Location/Spacing	The windows shall be installed in strict accordance with this product evaluation report and WinDoor Incorporated drawings 08-01090, sheets 1 – 11 of 11, dated May 10, 2011, signed and sealed by Luis R. Lomas, P.E. on September 26, 2011.
	Fastener Penetration	Wood: Minimum of 1 5/8 inches into the wall framing; Concrete: Minimum of 1 ¼ inches into the concrete/masonry wall; Metal (2X wood Backed): Minimum of 1 5/8 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.