



Product Evaluation

WIN1663 | 0415

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-1663

Effective Date: November 1, 2012

Revised: April 1, 2015

Re-evaluation Date: April 2016

Product Name: Model 9020 TB Aluminum Fixed Windows, Small Missile Impact Rated, Impact Resistant

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

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Model 9020 TB Aluminum Impact Fixed; O	AW-PG100 60x120 Missile Level A	+100 / -100 psf
2	Model 9020 TB Aluminum Impact Fixed; O	AW-PG90 60x120 Missile Level A	+90 / -90 psf
3	Model 9020 TB Aluminum Impact Fixed Combo Assembly; Mull; O/O	AW-PG100 60x120 Missile Level A	+100 / -100 psf
4	Model 9020 TB Aluminum Impact Fixed; O	AW-PG110 96x72 Missile Level A	+110 / -110 psf
5	Model 9020 TB Aluminum Impact Fixed; O	AW-PG100 96x72 Missile Level A	+100 / -100 psf
6	Model 9020 TB Aluminum Impact Fixed Combo Assembly; Mull; O/O/O	AW-PG70 144x72 Missile Level A	+70 / -75 psf

Product Dimensions:

System	Overall Size
1	60" x 120"
2	60" x 120"
3	60" x 120"
4	96" x 72"
5	96" x 72"
6	144" x 72"

Product Identification (Certification Label on Window):

System		
1	Certification Agency	Keystone
	Manufacturer's Name or Code Name	WinDoor, Inc. CAR 167-509; CAR 167-759
	Product Name	Model 9020 TB Aluminum Impact Fixed (SMI)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-05, ASTM E 1996-09 Missile Level A
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	WinDoor, Inc. CAR 167-510; CAR 167-760
	Product Name	Model 9020 TB Aluminum Impact Fixed (SMI)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-05, ASTM E 1996-09 Missile Level A
3	Certification Agency	Keystone
	Manufacturer's Name or Code Name	WinDoor, Inc. CAR 167-511; CAR 167-761
	Product Name	Model 9020 TB Aluminum Impact Fixed Combo Assembly (SMI) (Mull)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-05, ASTM E 1996-09 Missile Level A
4	Certification Agency	Keystone
	Manufacturer's Name or Code Name	WinDoor, Inc. CAR 167-512; CAR 167-762
	Product Name	Model 9020 TB Aluminum Impact Fixed (SMI)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-05, ASTM E 1996-09 Missile Level A

Product Identification (Certification Label on Window) - Continued:

System		
5	Certification Agency	Keystone
	Manufacturer's Name or Code Name	WinDoor, Inc. CAR 167-513; CAR 167-763
	Product Name	Model 9020 TB Aluminum Impact Fixed (SMI)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-05, ASTM E 1996-09 Missile Level A
6	Certification Agency	Keystone
	Manufacturer's Name or Code Name	WinDoor, Inc. CAR 167-515; CAR 167-765
	Product Name	Model 9020 TB Aluminum Impact Fixed Combo Assembly (Mull)
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08 ASTM E 1886-05, ASTM E 1996-09 Missile Level A

Impact Resistance:

System	Impact Resistant	Requirement
1-6	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 30' or greater above grade on the structure as long as it does not exceed the assemblies' design pressure rating.

Installation:

System		
1-6	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 (1/8" thick 6063-T5).
	Fasteners	Wood: No. 12 wood screw; Concrete: 1/4" diameter Tapcons; Metal #12 SMS or self-drilling screws
	Fastener Location/Spacing	Install the windows in strict accordance with this product evaluation report and WinDoor Incorporated drawings 08-01647, sheets 1 – 8 of 8, Revision B, dated June 25, 2012, revised January 6, 2014, signed and sealed by Luis R. Lomas, P.E. on February 5, 2014.
	Fastener Penetration	Wood: Minimum of 1-5/8" into the wall framing; Concrete: Minimum of 1-1/4" into the wall framing; Metal: Minimum 3 threads beyond structure interior wall.

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