

Product Evaluation

DR453 | 0822

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: DR-453

Effective Date: August 1, 2022

Re-evaluation Date: July 2025

Product name: 8100 Series Aluminum Sliding Glass Doors, Reinforced and Non-Reinforced, Small Missile Impact Rated, Impact Resistant

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

General Description:

System	Description	Label Rating	Design Pressure Rating
1	8100 Series Aluminum Sliding Glass Doors; Non-Reinforced	SD-C70 (287 x 120) Missile Level A	+70 / -70 psf
2	8100 Series Aluminum Sliding Glass Doors; Reinforced	SD-C90 (287 x 120) Missile Level A	+90 / -110 psf
3	8100 Series Aluminum Sliding Glass Doors; Non-Reinforced	SD-C70 (359 x 98) Missile Level A	+70 / -70 psf
4	8100 Series Aluminum Sliding Glass Doors; Reinforced	SD-C90 (359 x 98) Missile Level A	+90 / -110 psf

Product Dimensions:

System	Overall Size	Maximum Panel Size	Max Panel Daylight Opening Size
1-2	286-1/2" x 120"	49-15/16" x 118-1/16"	40-1/2" x 108-3/8"
3-4	358-1/2" x 98"	61-15/16" x 96-1/4"	52-1/4" x 86-1/2"

Product Identification (Certification Label on Door):

System		
1, 3	Certification agency	Keystone
	Manufacturer's name or code name	CAR# 167-197 (Sys. 1); 167-195 (Sys. 3) (Structural) CAR# 167-224 (Sys. 1); 167-220 (Sys. 3) (Impact)
	Product name	8100 2, 3, 4 Track Alum Non-Reinforced Impact SGD
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 506-08 ASTM E1886/E1996-05; Missile Level A
2, 4	Certification agency	Keystone
	Manufacturer's name or code name	CAR# 167-198 (Sys. 2); 167-196 (Sys. 4) (Structural) CAR# 167-226 (Sys. 2); 167-222 (Sys. 4) (Impact)
	Product name	8100 2, 3, 4 Track Alum Reinforced Impact SGD
	Test standards	AAMA/WDMA/CSA 101/I.S.2/A440-05 AAMA 506-08 ASTM E1886/E1996-05; Missile Level A

Impact Resistance:

System	Impact Resistant	Requirement
1-4	Yes	These products have been tested for windborne debris resistance. Install the assemblies at a height 30 feet or higher above grade on the structure as long as the design pressure rating is not exceeded.

Acceptance of Smaller Assemblies: Door assemblies with dimensions equal to or smaller than those specified are acceptable within the limitations specified in this report.

Installation:

System	
1-4	Type of installation
	Wall framing
	Fasteners
	Fastener location/spacing
	Fastener penetration
Install in accordance with WinDoor Incorporated drawing No. TDI-8100SM-1, dated February 2, 2021. Signed and sealed by Anthony Lynn Miller, P.E. on February 5, 2021.	

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