



# Product Evaluation

DR451 | 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:** DR-451 **Effective Date:** April 1, 2015  
**Re-evaluation Date:** July 2015

**Product Name:** Series 8100 Aluminum Sliding Glass Doors, Reinforced and Non-reinforced, Large Missile Impact, Impact Resistant

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

**General Description:**

System	Description	Label Rating	Design Pressure Rating
1	Series 8100 Aluminum SGD Non-Reinforced; XXXXXXP	SD-C70 359x98 Missile Level D	+70 / -70 psf
2	Series 8100 Aluminum SGD Non-Reinforced; XXXXXXP	SD-C70 287x120 Missile Level D	+70 / -70 psf
3	Series 8100 Aluminum SGD Reinforced; XXXXXXP	SD-C90 359x98 Missile Level D	+90 / -110 psf
4	Series 8100 Aluminum SGD Reinforced; XXXXXXP	SD-C90 287x120 Missile Level D	+90 / -110 psf

**Product Dimensions:**

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

**Product Identification (Certification Label on Door):**

System	Certification Agency	
1	Keystone	

	Manufacturer's Name or Code Name	CAR 167-195; CAR 167-221
	Product Name	8100 2, 3, 4 Track Alum Non-Reinforced Impact SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886-05, ASTM E 1996-05; AAMA 506-08; Missile Level D
2	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 167-197; CAR 167-225
	Product Name	8100 2, 3, 4 Track Alum Non-Reinforced Impact SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886-05, ASTM E 1996-05; AAMA 506-08; Missile Level D
3	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 167-196; CAR 167-223
	Product Name	8100 2, 3, 4 Track Alum Reinforced Impact SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886-05, ASTM E 1996-05; AAMA 506-08; Missile Level D
4	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 167-198; CAR 167-227
	Product Name	8100 2, 3, 4 Track Alum Reinforced Impact SGD
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886-05, ASTM E 1996-05; AAMA 506-08; Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1, 2, 3, 4	Yes	These assemblies satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the assemblies' design pressure rating. An impact protective system is not required.

**Installation:**

System		
1, 2, 3, 4	Type of Installation	Install the assemblies in accordance with Drawing No. 08-00876, Revision C, titled "8100 Series LMI Reinforced & Non-Reinforced," sheets 1 through 22 of 22, dated December 7, 2009, signed and sealed by Luis R. Lomas, P.E. on September 27, 2012.
	Wall Framing	
	Fasteners	
	Fastener Location/Spacing	
	Fastener Penetration	

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