

Product Evaluation

DR564 | 0621

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-564

Effective Date: June 1, 2021

Re-evaluation Date: November 2023

Product Name: Series 8100 Aluminum 90-Degree and 135-Degree Sliding Glass Doors, Reinforced and Non-Reinforced, Large 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 | Series 8100 90 Degree Aluminum Reinforced SGD; XXXXXXP | SD-C70 335 x 144; Missile Level D | +70 /- 70 psf |
| 2 | Series 8100 90 Degree Aluminum Reinforced SGD; XXXXXXP | SD-C80 419 x 120; Missile Level D | +80 /- 80 psf |
| 3 | Series 8100 135 Degree Aluminum Reinforced SGD; XXXXXXP | SD-C70 333 x 144; Missile Level D | +70 /- 70 psf |
| 4 | Series 8100 135 Degree Aluminum Reinforced SGD; XXXXXXP | SD-C70 417 x 120 Missile Level D | +70 /- 70 psf |

General Description (Continued):

| System | Description | Label Rating | Design Pressure Rating |
|--------|---|-----------------------------------|------------------------|
| 5 | Non-Reinforced, 2 Track; 90 Degree Corner; Sliding Glass Door, XXXXXXXXP | SD-C50 419 x 120; Missile Level D | +50 / -50 psf |
| 6 | Non-Reinforced, 4 Track; 135 Degree Corner; Sliding Glass Door, XXXXXXXXP | SD-C50 417 x 120; Missile Level D | +50 / -50 psf |

Product Dimensions:

| System | Overall Size | Maximum Panel Size | Maximum Panel Glass Daylight Opening Size |
|--------|------------------------------|---------------------|---|
| 1 | 334-13/16" x 144" | 51-3/4" x 142-1/16" | 40-1/4" x 132-5/8" |
| 2 | 418-13/16" x 120" | 63-3/4" x 118-1/16" | 52-1/4" x 109-3/16" |
| 3 | 332-15/16" x 120" | 51-3/4" x 142-1/16" | 40-1/4" x 132-5/8" |
| 4 | 416-13/16" x 120" | 63-3/4" x 118-1/16" | 52-1/4" x 109-3/16" |
| 5 | 183-7/8" x 234-7/8" x 120" | 63-3/4" x 118-1/16" | 52-1/4" x 109-3/16" |
| 6 | 183-7/8" x 234-15/16" x 120" | 63-3/4" x 118-1/16" | 52-1/4" x 109-3/16" |

Product Identification (Certification Label on Door):

| System | | |
|--------|----------------------------------|--|
| 1 | Certification Agency | Keystone |
| | Manufacturer's Name or Code Name | CAR 167-264; CAR 167-465 |
| | Product Name | 8100 90 Degree Alum Reinf Impact SGD |
| | Test Standards | AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E 1886-05, ASTM E 1996-05; Missile Level D |
| 2 | Certification Agency | Keystone |
| | Manufacturer's Name or Code Name | CAR 167-263; CAR 167-464 |
| | Product Name | 8100 90 Degree Alum Reinf Impact SGD |
| | Test Standards | AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E 1886-05, ASTM E 1996-05; Missile Level D |
| 3 | Certification Agency | Keystone |
| | Manufacturer's Name or Code Name | CAR 167-266; CAR 167-467 |
| | Product Name | 8100 135 Degree Alum Reinf Impact SGD |
| | Test Standards | AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E 1886-05, ASTM E 1996-05; Missile Level D |

Product Identification (Certification Label on Door)-Continued:

| System | | |
|--------|----------------------------------|---|
| 4 | Certification Agency | Keystone |
| | Manufacturer's Name or Code Name | CAR 167-265; CAR 167-466 |
| | Product Name | 8100 135 Degree Alum Reinf Impact SGD |
| | Test Standards | AAMA/WDMA/CSA 101/I.S.2/A440-05 ASTM E 1886-05, ASTM E 1996-05; Missile Level D |
| 5 | Certification Agency | Keystone |
| | Manufacturer's Name or Code Name | CAR 167-262 & 167-463 |
| | Product Name | CAR-167-262: 8100 2 Track 90 Deg Al Non-Reinf Imp SGP XXXXXXXXP CAR-167-463: 8100 2 Track 90 Deg Alum Non-Reinf Impact SGP |
| | Test Standards | AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886-05, ASTM E 1996-05 Missile Level D |
| 6 | Certification Agency | Keystone |
| | Manufacturer's Name or Code Name | CAR 167-268 & 167-469 |
| | Product Name | CAR-167-268: 8100 4 Track 135 Deg Al Non-Re Imp SGP XXXXXXXXP CAR-167-469: 8100 4 Track 135 Deg Alum Non-Reinf Impact SGP |
| | Test Standards | AAMA/WDMA/CSA 101/I.S.2/A440-05; ASTM E 1886-05, ASTM E 1996-05 Missile Level D |

Impact Resistance:

| System | Impact Resistant | Requirement |
|--------|------------------|---|
| 1-6 | Yes | These products satisfy TDI's criteria for protection from windborne debris. They passed Missile Level D in ASTM E 1996-14a. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies. |

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 | | |
|--------|---------------------------|---|
| 1-6 | Type of Installation | Install and anchor doors in accordance with WinDoor Incorporated drawing No. TDI-8100LM2-1, titled "Aluminum Sliding Glass Door, All Configs (LM);" sheets 1 through 11 of 11, dated February 4, 2021, signed, and sealed by Anthony Lynn Miller, P.E. on April 30, 2021. |
| | Wall Framing | |
| | Fasteners | |
| | Fastener Location/Spacing | |
| | Fastener Penetration | |

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.