

## Product Evaluation

DR728 | 0522

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-728

**Effective Date:** May 1, 2022

**Re-evaluation Date:** May 2026

**Product Name:** Series 351 Aluminum Dry-Glazed Outswing Side Hinged Doors, Impact Resistant

**Manufacturer:** Trulite Glass and Aluminum Solutions  
403 West Park Court  
Suite 201  
Peachtree City, GA 30269  
(800) 432-8132

### General Description:

The Series 351 doors are aluminum frame glazed outswing oversized side hinged doors used for commercial installations. This evaluation report includes the following door configurations:

- Outswing Doors with 3000 Series Frame
- Outswing Doors with 5000 Series Frame
- Outswing Single or Double Door with Transom
- Outswing Single or Double Door with or without Transom and Sidelites
- Outswing Single Door

**Sidelites and Transoms:** Sidelites and transoms referenced in this product evaluation report are not part of this product evaluation report. The sidelites and transoms used with these assemblies must be listed in separate TDI product evaluation reports.

**Product Identification:** A Trulite label will be affixed to the assembly. The label includes the manufacturer's name: (Trulite Glass & Aluminum Solutions); the product name: (351 Series Aluminum Outswing Door); the test standards (TAS 201-94, TAS 202-94, TAS 203-94, Large Missile Impact Rated); and Installation and Design Pressure Per TDI Drawing TA18-01.

**Limitations:**

**Design Drawings:**

The door assemblies must comply with and be installed in accordance with the following design drawing:

Drawing No. TA18-01; titled "351 Series Alum Outswing Dry-Glazed Doors", Sheets 1 thru 13 of 13; dated January 28, 2022; signed and sealed by Yiping Wang, P.E on January 28, 2022. This evaluation report refers to the stated drawings as the approved drawings.

**Fabrication and Assembly:** Trulite Glass & Aluminum Solutions door systems are fabricated in the factory. The aluminum door systems are assembled and glazed at the jobsite. The approved drawing referenced in this evaluation report indicates the options for the glazing construction.

**Design pressure (DP):**

The aluminum door systems have a maximum design pressure rating of +70 / -70 psf. Refer to approved drawing for specific design pressure requirements.

**Hardware:** Requirements for door hardware are specified on the approved drawing.

**Impact Resistance:**

These assemblies satisfy TDI's criteria for protection from windborne debris. These assemblies have passed an impact criteria equivalent to Missile Level D specified in ASTM E 1996-04. Install these assemblies at any height on the structure that does not exceed the design pressure rating for the assembly. These assemblies do not require an impact protective system when installed in areas where windborne debris protection is required.

**Acceptance of Other Assemblies:**

Sidelites and transoms used with the door assemblies must be listed in separate TDI product evaluation reports.

**Installation Instructions:**

**General:** Prepare and install the assembly in accordance with the manufacturers recommended installation instructions. Detailed installation instructions and drawings are available in the approved drawings.

**Wall Framing Construction:** The aluminum door system may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:

- Concrete (minimum compressive strength: 3,000 psi)
- Wood (minimum specific gravity of 0.55)
- Masonry: Hollow or Grout Filled Block Per ASTM C90 with  $f'm = 2,000$  psi minimum.
- Steel (minimum 1/8 thick,  $F_y = 36$  ksi)
- Aluminum (minimum 1/8" thick, 6063-T5)

**Fastener Requirements:**

Refer to the approved drawings for the anchor layout and notes.

Refer to the approved drawings for the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

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