

Product Evaluation

DR1061 | 0919

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-1061

Effective Date: September 1, 2019

Re-evaluation Date: September 2023

Product Name: Series T351 Aluminum Glazed TerraStile Outswing Side Hinged Terrace Door, Frame Installation, Impact Resistant

Manufacturer: EFCO
1000 County Road
Monet, MO 65708
(800) 221-4169

General Description:

System	Description	Design Pressure Rating
1	Series T351 Aluminum Glazed TerraStile Outswing Side Hinged Terrace Door	+80 / -80 psf

Product Dimensions:

System	Overall Size	Door Panel Size	Door Panel Glass Daylight Opening Size
1	42-1/4" x 96"	39-1/2" x 94"	30-1/4" x 85"

Hardware:

- **Multi-Point Steel Lock Bar:** Hoppe; Located on the door panel stile. Secured to the door panel stile with No. 8 x 1-1/4" PFH screws located 3" from the outside panel corners and 8" on center.
- **Deadbolt:** Hoppe; Located on the door panel. Secured to the locking stile with two (2) M5 x 2-1/2" PPH screws at the interior face and two (2) No. 8 x 1/2" Torx drive FH screws, one (1) M5 x 2" PPH screw, and one (1) M4 x 1/2" PFH screw through the multi-point lock bar.
- **Door handle set:** Hoppe; Located on the door panel.
- **U-Shaped Keepers:** Four (4) required; locate on door frame lock jamb; each secured with two (2) No. 10 x 1/2" PFH screws.
- **Deadbolt Keeper:** One (1) required; located on the door frame lock jamb; secured with three (3) No. 10 x 1/2" PFH screws.
- **Hinges:** Four (4) required; secured to the door panel stile with five (5) No. 10 x 3/8" PPH screws; secured to the door jamb with three (3) 1/4" x 1" PFH screws.

Sill: EFCO extruded aluminum sill

Product Identification: A label produced by the manufacturer is placed on the door assembly. The label includes the manufacturer's name (EFCO); the product name (S T351); the design pressure rating (+80 /-80 psf); and that the product complies with TAS 201-94, TAS 202-94, TAS 203-94, Large Missile.

Fabrication and Assembly: The door assembly is fabricated in the factory and assembled at the jobsite.

Impact Resistance:

System	Impact Resistant	Requirement
1	Yes	These assemblies satisfy TDI's criteria for protection from windborne debris in both the Inland I and Seaward zones. These assemblies 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 assembly's design pressure rating. These assemblies do not require protection with an impact protective system.

Installation:

The wall framing must be minimum Hem-Fir dimension lumber. The assembly is secured to the wall framing using frame with minimum No. 1/4" PFH screws at the sill and 1/4" x 3" PFH screws at the head and side jambes. Along the sill and the head, the fasteners are located approximately 7" from the outside corners with one at the mid span. Along each side jamb, the fasteners are located approximately 5" from the corners and 14" on center. All fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

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.