

## Product Evaluation

GDR157 | 0922

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:** GDR-157

**Effective Date:** September 1, 2022

**Re-evaluation Date:** September 2026

**Product Name:** TBS TR Model 977 Commercial Roll-up Garage Doors, Non-Impact

**Manufacturer:** Trachte Building Systems

314 Wilburn Road

Sun Prairie, WI 53590

(800) 356-5824

[www.trachte.com](http://www.trachte.com)

### General Description:

The Trachte Building Systems / Trac-Rite Doors are made up of roll formed, corrugated steel panels that span between the door guides. The panels are roll formed from 26-gauge, Grade 80 steel, per ASTM A-653, hot dipped galvanized, per ASTM A-924. The guides are roll formed and made from 18-gauge, ASTM A-653 steel, hot dipped galvanized per ASTM A-924 and installed on each side of the door opening. The bottom bar is roll formed from 22-gauge, ASTM A1011 galvalume, hot dipped galvanized per ASTM A-924, with the astragal seal pressed into place.

### Limitations:

**Design Drawings:** The rolling doors must be installed in accordance with "977 Door;" Drawing No. 977; Sheet 1 thru 2; dated February 10, 2022. The drawing is sealed, digitally signed, and dated August 30, 2022 by Ross T. Mori. The stated drawing is referred to as the approved drawing in this report. A copy of the approved drawing must be available at the job site.

**Wall Construction:** The rolling doors may be mounted to the following types of wall framing:

- Concrete filled masonry block
  - door bracket attached using Dewalt Screw Bolt+ 3/8" x 4.00"
  - door guide attached using Dewalt Screw Bolt+ 1/4" x 1-3/4"
- Steel
  - door bracket attached using WZLK Bolts 3/8-16 x 1.00"
  - door guide attached using self-drilling screws 1/4-14 x 7/8"
- Wood
  - door bracket attached using lag screws 5/16" x 1-5/8"
  - door guide attached using lag screws 1/4" x 1-1/2"

**Maximum Opening Width:** 11'-0". Refer to the approved drawing for specific width requirements.

**Maximum Opening Height:** 12'-0"

**Glazing:** Not permitted.

**Allowable Design Pressure Rating:** The allowable design pressure rating is specified in Table 1.

**Table 1. Non-Impact Rated Assemblies**

Maximum Width (ft)	Maximum Height (ft)	Design Load (psf)
8	12	+22 / -24
9	12	+20 / -22
10	12	+16 / -18
11	12	+14 / -16

**Product Identification:** The rolling door assemblies have a wind load label that identifies the manufacturer (Trac-Rite); the model numbers (977); the drawing number (977); the allowable pressure rating; and the test standards (ASTM E 330/E330M-14).

**Impact Resistance:** The door assemblies have not been tested for windborne debris resistance.

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

#### **Installation:**

**General:** These doors must be installed in accordance with the manufacturer's published installation instructions, the approved drawing, and this product evaluation report. A copy of the approved drawing and the manufacturer's installation instructions must be available at all times at the job site during installation.

The information within this evaluation report governs if there are any conflicts between the manufacturer's instructions and this evaluation report.

**Anchorage:** The rolling doors must be anchored to the structure in accordance with the approved drawing. Anchorage of rolling doors to concrete-filled masonry block, steel, or wood must follow the mounting details on the approved drawings and the fasteners specified in the mounting details. Minimum edge distances and minimum embedment depths for all fasteners that penetrate into the structure must be as specified on the design drawings.

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