

## Product Evaluation

DR935 | 1121

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-935

**Effective Date:** November 1, 2021

**Re-evaluation Date:** November 2025

**Product Name:** Double & Single Commercial Outswing & Inswing Galvanneal or Stainless-Steel Doors, Flush, Embossed, w/ Vision Lite or Louver Kits with Sidelites and Transoms, Impact Resistant

**Manufacturer:** Daybar Industries LTD  
50 West Drive  
Brampton, ON, Canada L6T 2J4  
(905) 625-8000

### General Description:

The assembly consists of double or single galvanneal or stainless-steel doors that are either flush, embossed, with vision lites, or louvered that include sidelites and transoms. The assembly is used for commercial installations. This evaluation report includes the Double doors with sidelites and transoms and Single doors with sidelites and transoms door assemblies.

**Product Identification:** A Daybar label will be affixed to the door assembly. The label includes the manufacturer's name (Daybar Industries Limited); the product name (Double & Single Commercial Galvanneal or Stainless-Steel Door, Flush, Embossed, w/Vision Lite or Louver Kits with Sidelites and Transoms of Different Infills); that the design pressure and dimensions are per drawing 21-124; and that the product complies with TAS-201, TAS-202, and TAS-203.

**Compliance:** The door assemblies passed test criteria equivalent to ASTM E 330-14, ASTM E 1886-13a, and ASTM E 1996-14a.

**Limitations:**

**Design Drawings:** Door assemblies must comply and be installed in accordance with the following design drawing:

Drawing No. 21-124; "Double & Single Commercial Outswing & Inswing Galvanneal or Stainless Steel Doors, Flush, Embossed, w/Vision Lite or Louver Kits with Sidelites and Transoms of Different Infills;" Sheets 1 thru 12 of 12; dated September 29, 2021; revision 1 dated September 29, 2021; signed and sealed by Walter A. Tillit, Jr, P.E on October 1, 2021. This evaluation report refers to the stated drawings as the approved drawings.

**Fabrication and Assembly:** The doors, sidelites, and transoms are fabricated in the factory. The doors, sidelites, and transoms are assembled at the jobsite. The approved drawings referenced in this evaluation report indicate the options for the glazing construction.

**Design Pressure (DP):**

The assemblies have a maximum design pressure rating of +50 psf / -50 psf.

**Hardware:** Door hardware requirements are specified on the approved drawings.

**Sidelites and Transoms:** The maximum daylight opening width and height for the sidelites and transoms are specified on the approved drawings.

**Assembly Geometry:** The maximum overall height and the maximum overall width for the doors, the sidelites, and the transoms are specified on the drawings.

**Impact Resistance:**

The doors satisfy TDI's criteria for protection from windborne debris. These assemblies passed the equivalent of Missile Level D specified in ASTM E 1996-14a. Install these assemblies at any height on the structure that does not exceed the assembly's design pressure rating. The assembly may not be installed below a height of 30 feet on essential facilities as defined in ASCE 7-16.

**Installation:**

**General:** Prepare and install the assembly in accordance with Daybar Industries LTD installation instructions and the approved drawings specified in this evaluation report. Detailed installation instructions are available from Daybar Industries LTD.

**Wall Framing Construction:** The assembly 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)
- Grout-filled concrete block (minimum compressive strength, grout: 2,500 psi)
- Steel (minimum 18-gauge steel)
- Wood (southern yellow pine, minimum S.G. = 0.55)

**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 installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.