

## Product Evaluation

GDR52 | 0422

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-52

**Effective Date:** April 1, 2022

**Re-evaluation Date:** April 2026

**Product Name:** Models 8024/8124 Steel Sectional Garage Doors, Impact Resistant

**Manufacturer:** Wayne-Dalton Corporation

3395 Addison Drive  
Pensacola, FL 32514  
(850) 474-9890

One Door Drive  
P.O. Box 67  
Mt. Hope, Ohio 44660  
(330) 763-8000

**General Description:**

Models 8024/8124 doors are sectional, impact-resistant, overhead garage doors.

The door sections are constructed of 24-gauge ASTM A653-00 galvanized FS Type B steel. The galvanized steel sections have a two-coat polyester finish.

The door sections are 2" thick. The front panels are embossed with a textured surface. The panel joints are tongue and groove.

Each door section is reinforced with 16-gauge box-shaped end stiles and 20-gauge box-shaped center stiles.

The Model 8024 sectional door is a non-insulated door.

The Model 8124 sectional door is an insulated door which contains expanded polystyrene insulation in the door panels.

The Models 8024 and 8124 also have an optional 1/2", non-structural, decorative overlay.

**Product Identification:**

The door has a label, applied by the installer, which includes the manufacturer's name, the drawing number, the design pressure rating, the test standards (TAS 201, TAS 202, TAS 203), and the missile level (Large Missile Rated).

**Limitations:**

This evaluation report includes impact-resistant doors only.

The doors include optional glazing.

The doors do not include louvers.

The maximum height of each door section must not exceed 21".

The doors have a maximum door width of 18'-0".

Refer to Table 1 in this evaluation report for allowable door heights and door widths for specific doors.

The doors are reinforced with either 18-gauge or 20-gauge steel U-bars. The placement and installation of the reinforcement are shown on the design drawings (Windload Specification Option Code).

**Design Drawings:** Specified in Table 1

**Allowable Dimensions:** Specified in Table 1.

**Glazing:** Glazing is minimum 1/4" Makrolon-AR polycarbonate. Each glazing lite is screwed to the door face with fasteners. Refer to the design drawings for the attachment requirements. The maximum daylight opening of the glazing is specified on the design drawings.

**Design Pressure and Height Limitations:** Specified in Table 1.

**Impact Protection:** The doors listed in this evaluation report have been tested for windborne debris resistance. The door assemblies passed the equivalent of Missile Level D as specified in ASTM E 1996-14a.

**Table 1: Impact Resistant Doors**

Windload Specification Option Code	Drawing Number	Maximum Size		Design Pressure (PSF)	Glazing Available (Yes/No)
		Width	Height		
1300	329928 Rev E 01-18-2022 Sealed 02-25-2022	9'-0"	14'-0"	+46; -52.0	Yes
1320	329929 Rev E 01-03-2022 Sealed 02-25-2022	16'-0"	14'-0"	+46; -52.0	Yes
1340	329930 Rev G 01-03-2022 Sealed 02-25-2022	18'-0"	8'-0"	+46; -52.0	Yes

**Installation:**

**Design Drawings:** The doors must be installed as specified on the design drawings. The design drawings are be provided with the door. The drawings are signed and sealed by John Scates, PE. The seal date is specified in Table 1.

**Attachment of Doors to Walls (Use one of the following methods):**

**Attachment of Door Components to Wood-Framed Walls Using a Wood Jamb:** Brackets for the vertical tracks and for the flag angles of the door shall be attached directly to wood jambs with the fasteners specified on the design drawings. The wood jambs and the attachment of the wood jambs to the wood framed walls must be as specified in the Jamb Connection Supplement, Drawing Number 363342, Rev P01, signed and sealed on February 27, 2020, by John E. Scates, P.E.

**Attachment of Door Components to Concrete/Masonry Block Walls Using a Wood Jamb:** Brackets for the vertical tracks and for the flag angles of the door shall be attached directly to wood jambs with the fasteners specified on the design drawings. The wood jambs and the attachment of the wood jambs to the concrete/masonry block walls shall be as specified in the Jamb Connection Supplement, Drawing Number 363342, Rev P01, signed and sealed on February 27, 2020, by John E. Scates, P.E.

**Attachment of Door Components to Using Direct Mount Method:** Brackets for the vertical tracks and for the flag angles of the door shall be attached directly to the wall framing in accordance with the Jamb Connection Supplement, Drawing Number 363342, Rev P01, signed and sealed on February 27, 2020, by John E. Scates, P.E.

**Note:** The manufacturer's installation instructions, the appropriate Windload Specification Option Code design drawing and the Jamb Connection Supplement must be available on the job site during installation. All fasteners must be corrosion resistant as specified in the IRC and the IBC.