

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION GDR-52

Effective November 1, 2012

*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 shall be subject to reevaluation **November 2016**.*

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.

Models 8024/8124 Steel Sectional Garage Doors, Impact-Resistant, as manufactured by:

Wayne-Dalton Corporation
3395 Addison Drive
Pensacola, Florida 32514
Telephone: (850) 474-9890

will be acceptable for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this product evaluation, the manufacturer's installation instructions, and the design drawings specified in this evaluation report. Installation instructions and design drawings shall be available on the job site during installation.

PRODUCT 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-inches 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 ½", non-structural, decorative overlay.

Product Identification: The door has a warranty/warning label applied during manufacturing that includes the manufacturers name and the Series/Model number for the garage door. The door will also have a second label, applied by the installer, which includes the manufacturer's name and the design pressure rating for the door.

LIMITATIONS

This evaluation report includes impact-resistant doors only.

Impact-resistant doors include optional glazing.

Impact-resistant doors do not include louvers.

The maximum height of each door section shall not exceed 21 inches.

The doors shall have a maximum allowable width of 18 feet.

Refer to the table in this evaluation report for allowable door heights for specific doors.

The doors are reinforced with either 18 gauge or 20 gauge steel U-bars, and in some cases, a vertical wind load post is required to obtain the design pressure rating. The placement and installation of the reinforcement and wind load post are shown on the design drawings (Windload Specification Option Code).

Impact-Resistant Doors

Design drawings (Windload Specification Option Code): Specified in Table 1.

Allowable dimensions: Specified in Table 1.

Design pressures: Table 1.

Glazing (as Permitted in Table 1): Glazing shall be minimum $\frac{1}{4}$ " Makrolon-AR polycarbonate. Each glazing lite is secured to the door face steel with sixteen (16) minimum No. 8 x $\frac{3}{4}$ " stainless steel screws with rubber washers. A $\frac{1}{8}$ " bead of GE Ultraglaze SSG4000AC structural sealant is applied between the door face steel and the glazing. The dimensions of the glazing shall not exceed 18.56" width by 12.56" high.

Louvers: Not permitted.

Impact protection: These door assemblies satisfy the Texas Department of Insurance criteria for protection from windborne debris in both the **Inland I zone** and the **Seaward zone**. The door assembly passed Missile Level D in ASTM E 1996-01. The door assembly may be installed on the structure as long as the design pressure rating for the assembly is not exceeded. These door assemblies will not require protection with an impact protective system.

Table 1
Windload Specification Option Code, Allowable Door Dimensions,
Glazing Options and Design Pressure Rating
Impact-Resistant Doors

Drawing Part No. & Windload Specification Option Code	Maximum Door Width	Maximum Door Height	Optional Glass Permitted?	Vertical Windload Post Required?	Design Pressure (psf)
329928 Rev: P2 shts. 1-3 of 3, 6/26/08 1300	9'-0"	14'-0"	Yes	No	+46.0, -52.0
329929 Rev: P2 shts. 1-3 of 3, 6/26/08 1320	16'-0"	14'-0"	Yes	No	+46.0, -52.0
329930 Rev: P4 shts. 1-4 of 4, 6/26/08 1340	18'-0"	8'-0"	Yes	Yes	+46.0, -52.0

INSTALLATION INSTRUCTIONS

Design Drawings (Windload Specification Option Code): The doors shall be installed as specified on the design drawings. The design drawings shall be provided with the door. Each page of the design drawings shall be signed by Mark R. Barrow, PE and dated June 26, 2008. The following information, as a minimum, shall be provided within a box located on each page of the design drawings:

- Drawing Part Number
- Wind Load Specification Option Code
- Revision Number
- Models 8024/8124
- Design Pressures Rating
- Maximum Width and Maximum Height
- Maximum Section Height

Attachment of Doors to Wall (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 to the wood-framed walls shall be as specified in the Jamb Connection Supplement, Drawing Number 324620, Rev. P11, signed and sealed on July 11, 2012 by John 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 shall be minimum 2x6 No. 3 Southern Pine (Specific Gravity = 0.55) lumber. The wood jambs and the attachment of the to the wood-framed walls shall be as specified in the Jamb Connection Supplement, Drawing Number 324620, Rev. P11, signed and sealed on July 11, 2012 by John Scates, P.E.

Attachment of Door Components to Concrete Walls – Direct Attachment of Jamb Brackets: Brackets for the vertical tracks and for the flag angles of the door shall be attached directly to concrete wall framing using minimum $\frac{3}{8}$ " Diameter Simpson Titen HD Screw Anchors. Minimum 2,000 psi concrete is required. The anchors shall have a minimum embedment into the concrete of $2\frac{3}{4}$ inches and a minimum edge distance of $2\frac{3}{4}$ inches. Refer to the Windload Specification Option Code drawing, referenced in this evaluation report for specific installation details.

Note: The manufacturer's installation instructions, the appropriate Windload Specification Option Code design drawing and the Jamb Connection Supplement, shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.