



Product Evaluation

GDR59 | 1215

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-59 **Effective Date:** December 1, 2015
Re-evaluation Date: October 2019

Product Name: Clopay Residential Steel Sectional Garage Doors, Classic Pan, Non-impact Resistant and Impact Resistant

Manufacturer: Clopay Building Products Company
8585 Duke Blvd.
Mason, OH 45040
(513) 770-4800

Marketed Under: Clopay
Ideal
Holmes

Sold as: Ideal Door Company
Holmes Garage Door

Acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this evaluation. Installation instructions and the appropriate design drawings for the particular model, as shown in Table 1 through 5, must be provided and available on the job site during installation.

Product Description:

The garage doors specified in this evaluation are sectional overhead doors constructed from galvanized steel with a baked on polyester finish. The doors may be raised panel or flat and may have a smooth or an embossed wood grain texture. Insulated sectional garage doors will have an interior skin with 1-5/16" thick 0.8 pcf density polystyrene foam insulation.

Product Identification:

A label will be affixed to the garage door that includes manufacturer's name, manufacturing product code, and allowable design pressure rating. To minimize inventory, the same section construction configuration is used across several different wind load levels for the same door model and size. The section remains the same because the differences in the struts, track, and hardware allow for the same section to be upgradeable for different wind load levels. The label will list all approved variations that the section can be used to construct and each design drawing will list the equivalent sections.

Limitations:

This evaluation report includes design drawings, allowable dimensions, and design pressures for both non-impact and impact resistant sectional garage doors.

Non-impact garage door specifications are in Table 1 and Table 2.

Impact resistant garage door specifications are in Table 3, Table 4, and Table 5.

The maximum height of each door section must not exceed 24". Refer to the design drawings for the allowable section height for a particular door.

The doors have a maximum allowable width of 18'-2". Refer to Tables 1 through 5 for the allowable width of the door for a particular door model.

The doors have a maximum allowable height of 16'.

The design pressure rating for a particular model door is specified in Tables 1 through 5.

Impact Resistance:

The doors assemblies specified in Table 1 and Table 2 have not been tested for windborne debris resistance. Doors specified in Table 1 that contain glazing may not be installed in the **Inland I** zone unless the entire door is protected with an impact protective system. All doors specified in Table 1 may not be installed in the **Seaward zone** unless the entire door is protected with an impact protective system.

The door assemblies specified in Table 3, Table 4, and Table 5 satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I** zone and the **Seaward** zone and do not need to be protected with an impact protective system. Impact resistant doors may have impact resistant glazing as detailed on the design drawings.

Installation Instructions:

Design Drawings: Install doors as specified on the design drawings. The design drawings must be provided with the door. Each page of the design drawings must be sealed, dated, and signed by Mark W. Westerfield, PE. The seal date of the drawing is specified on the design drawings. The following information, as a minimum, must be provided within boxes located on each page of the design drawings:

- Manufacturing Product Code
- Brand Names and Model Numbers
- Drawing Number
- Drawing Revision Number
- Design Pressure Rating
- Maximum Door Size (Width and Height)
- Maximum Section Height

Attachment of Doors to Wall Framing: Attach door track brackets either directly to the wall framing or to minimum 2x6 Southern Yellow Pine wood jambs that are secured to the wall framing with fasteners. The allowable methods of attachment and illustrations of the allowable methods of attachment are specified on each design drawing and in the Jamb Fastener Analysis Connecting Jamb to Existing Structure, document CBPC-JFA-0001-REV02, signed and sealed on August 20, 2013 by Mark Westerfield, P.E.

- **Direct Attachment of Door Track Brackets to Wall Framing:** The wall framing must be minimum Southern Yellow Pine dimension lumber. Secure track bracket to wall framing with lag screws as specified on the design drawings. Refer to the design drawings for the proper location of the lag screws into the wall framing.
- **Attachment of Door Components to Wood-Framed Walls Using a Wood Jamb:** Attach brackets for the vertical tracks directly to wood jambs with the fasteners specified on the design drawings. Attaching wood jambs to wood-framed walls must be as specified in the Jamb Fastener Analysis Connecting Jamb to Existing Structure, document CBPC-JFA-0001-REV02, signed and sealed on August 20, 2013 by Mark Westerfield, P.E.
- **Attachment of Door Components to Concrete/Masonry Block Walls Using a Wood Jamb:** Attach brackets for the vertical tracks directly to wood jambs with the fasteners specified on the design drawings. The attachment of the wood jambs to the concrete/masonry block walls must be as specified in the Jamb Fastener Analysis Connecting Jamb to Existing Structure, document CBPC-JFA-0001-REV02, signed and sealed on August 20, 2013 by Mark Westerfield, P.E.

Note: Keep the manufacturer's installation instructions, the design drawings, and the Jamb Fastener Analysis Connecting Jamb to Existing Structure document available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.

Non-Impact Resistant Doors

- **Design Drawings:** Specified in Table 1 and Table 2.
- **Allowable Dimensions:** Specified in Table 1 and Table 2.
- **Design Pressures:** Specified in Table 1 and Table 2.
- **Glazing:** The glazing construction and dimensions are specified on the design drawings.
- **Louvers:** Not permitted.
- **Impact Resistance:** The doors assemblies specified in Table 1 and Table 2 have not been tested for windborne debris resistance. Doors specified in Table 1 and Table 2 that contain glazing may not be installed in the **Inland I** zone unless the entire door is protected with an impact protective system. All doors specified in Table 1 and Table 2 may not be installed in the **Seaward** zone unless the entire door is protected with an impact protective system.

Table 1: Non-Impact Rated Assemblies | Clopay, IDEAL, and Holmes W4 Doors

Mfg Product Code	Clopay Model #s	IDEAL Model #s	Holmes Model #s	Max Door Width	Max Door Height	Drawing Number	Design Pressure (psf)	Glass Option
PAN-2F151	73, 75, 76, 76V, 84A, 94, 190, 1500, GD5S, GR5S	2RST, 4RST, 4F, 4RSF, 6RST, 6RSF, ED5S	42, 42B, 48, 48B, 55, 55S, AR5S	9'-0"	16'-0"	300159-TDI Rev 14 8-7-14 Sealed 8-12-14	+25.0; -32.0	Yes
PAN-2F153	73, 75, 84A, 94, 190, 1500, GD5S, GR5S	4RST, 4F, 4RSF, 6RST, 6RSF, ED5S	42, 42B, 48, 48B, 55, 55S, AR5S	16'-0"	16'-0"	101711-TDI Rev 13 8-7-14 Sealed 8-12-14	+24.0; -24.5	Yes
PAN-2F153	73, 75, 84A, 94, 190, 1500, GD5S, GR5S	4RST, 4F, 4RSF, 6RST, 6RSF, ED5S	42, 42B, 48, 48B, 55, 55S, AR5S	18'-0"	16'-0"	101312-TDI Rev 12 6-2-13 Sealed 8-12-14	+25.0; -25.0	Yes

Table 2: Non-Impact Rated Assemblies | Clopay, IDEAL, and Holmes W5 Doors

Mfg Product Code	Clopay Model #s	IDEAL Model #s	Holmes Model #s	Max Door Width	Max Door Height	Drawing Number	Design Pressure (psf)	Glass Option
PAN-2F151	73, 75, 76, 76V, 84A, 94, 190, 1500, GD5S, GR5S	2RST, 4RST, 4F, 4RSF, 6RST, 6RSF, ED5S	42, 42B, 48, 48B, 55, 55S, AR5S	9'-0"	16'-0"	102110-TDI Rev 17 8-7-14 Sealed 8-12-14	+30.0; -32.0	No
PAN-2F151, PAN-2F153	73, 75, 76, 84A, 94, 190, 1500, GD5S, GR5S	2RST, 4RST, 4F, 4RSF, 6RST, 6RSF, ED5S	42, 42B, 48, 48B, 55, 55S, AR5S	16'-0"	16'-0"	101593-TDI Rev 13 8-7-14 Sealed 8-12-14	+30.0; -30.0	Yes
PAN-2F153	73, 75, 84A, 94, 190, 1500, GD5S, GR5S	4RST, 4RSF, 6RST, 6RSF, ED5S	42, 42B, 48, 48B, 55, 55S, AR5S	18'-0"	16'-0"	101922-TDI Rev 13 8-7-14 Sealed 8-12-14	+32.0; -32.0	No

Impact Resistant Doors

- **Design Drawings:** Specified in Table 3, Table 4, and Table 5.
- **Allowable Dimensions:** Specified in Table 3, Table 4, and Table 5.
- **Design Pressures:** Specified in Table 3, Table 4, and Table 3.
- **Glazing:** The glazing construction and dimensions are specified on the design drawings.
- **Louvers:** Not permitted.
- **Impact Resistance:** The door assemblies specified in Table 3, Table 4, and Table 5 satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I** zone and the **Seward** zone and do not need to be protected with an impact protective system. Impact resistant doors may have impact-resistant glazing as detailed on the design drawings.

Table 3: Impact Rated Assemblies | Clopay, IDEAL, and Holmes W6 Doors

Mfg Product Code	Clopay Model #s	IDEAL Model #s	Holmes Model #s	Max Door Width	Max Door Height	Drawing Number	Design Pressure (psf)	Glass Option
PAN-2F153	73, 75, 76, 84A, 94, 98, GD5S, GR5S	4RST, 4F, 6RST, 2RST, ED5S	42, 42B, 48, 48B, AR5S	9'-0"	16'-0"	101348-TDI Rev 16 8-8-14 Sealed 8-12-14	+38.0; -44.0	Yes
PAN-2F153	73, 75, 84A, 94, 98, GD5S, GR5S	4RST, 4F, 6RST, ED5S	42, 42B, 48, 48B, AR5S	16'-2"	16'-0"	104710-TDI Rev 05 8-8-14 Sealed 8-12-14	+36.0; -42.0	Yes
PAN-2F143	84A, 94	4RST	42, 42B, 48, 48B	16'-2"	16'-0"	104753-TDI Rev 05 8-8-14 Sealed 8-12-14	+38.0; -42.0	Yes
PAN-2F153	73, 75, 84A, 94, 98, GD5S, GR5S	4RST, 4F, 6RST, ED5S	42, 42B, 48, 48B, AR5S	18'-2"	16'-0"	104761-TDI Rev 06 1-23-15 Sealed 1-26-15	+36.0; -42.0	Yes

Table 4: Impact Rated Assemblies | Clopay, IDEAL, and Holmes W7 Doors

Mfg Product Code	Clopay Model #s	IDEAL Model #s	Holmes Model #s	Max Door Width	Max Door Height	Drawing Number	Design Pressure (psf)	Glass Option
PAN-2F143	84A, 94, 98	4RST, 4F	48, 48B	9'-0"	16'-0"	101702-TDI Rev 12 8-8-14 Sealed 8-12-14	+42.0; -48.0	Yes

Table 5: Impact Rated Assemblies | Clopay, IDEAL, and Holmes W8 Doors

Mfg Product Code	Clopay Model #s	IDEAL Model #s	Holmes Model #s	Max Door Width	Max Door Height	Drawing Number	Design Pressure (psf)	Glass Option
PAN-2F143	84A, 94, 98	4RST, 4F	48, 48B	9'-0"	16'-0"	103547-TDI Rev 06 8-8-14 Sealed 8-12-14	+48.0; -54.0	Yes
PAN-2F143	84A, 94, 98	4RST, 4F	48, 48B	9'-0"	16'-0"	103287-TDI Rev 05 8-8-14 Sealed 8-12-14	+54.0; -62.0	No
PAN-2F143	84A, 94, 98	4RST, 4F	48, 48B	16'-2"	16'-0"	104754-TDI Rev 03 8-7-14 Sealed 8-12-14	+46.0; -50.0	Yes