

Product Evaluation

GDR70 | 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-70

Effective Date: April 1, 2022

Re-evaluation Date: April 2026

Product Name: Series 1100 Steel Roll-Up Doors, Non-Impact Resistant

Manufacturer: Janus International Corporation
135 Janus International Blvd.
Temple, GA 30179-4435
(866) 562-2580

General Description:

This evaluation report is for the Series 1100 steel roll-up doors. The steel roll-up doors consist of a corrugated steel curtain that is suspended from a barrel. Coil springs, located within the barrel, raise and lower the curtain, which wraps around the barrel. A push-up, hand chain, or electric operation raise the steel curtain. The sides of the curtain are constrained from lateral movement along their vertical edges by steel guides that are attached to the structure. The steel roll-up doors specified in this evaluation report are non-impact resistant. This evaluation report includes the following doors listed in Table 1:

Table 1. Series 1100 Doors

System	Description	Maximum Width	Maximum Height
1	26-Gauge Series 1100 Roll Up Doors; Single Curtain; Windlocks	8'-8"	14'-0"
2	26-Gauge Series 1100 Roll Up	12'-0"	14'-0"

	Doors; Single Curtain; Windlocks		
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The steel roll-up doors specified in this evaluation report consist of the following components:

- **Curtain:** 26-gauge corrugated steel that is roll-formed from ASTM A 653 grade 80 steel. The corrugated sheets are galvanized and pre-painted with silicone polyester paint. The corrugated sheets are interlocked mechanically to form the curtain.
- **Guides (Systems 1 and 2):** 16-gauge roll-formed from ASTM A 653 steel. The dimensions of the guide are 2-1/8" x 2-5/16".
- **Bottom Bar (Systems 1 and 2):** One 24-gauge galvanized steel bottom bar full length of curtain. One roll-formed steel angle, 1-1/2" x 1-1/2" x 0.072" MIN x full length. The steel angle is attached to the steel bottom bar with 1/4" diameter thru bolts and lock nuts. Two bolts are located at each end and two bolts are located at the center. One bolt is located 24" on center. A continuous vinyl bulb astragal is attached to the bottom of the steel angle.
- **Windlocks (Systems 1 and 2):** 12-gauge galvanized steel. The windlock is attached to each side of the curtain at every other corrugation. Each windlock is attached to the curtain with two (2) 3/16" diameter zinc coated rivets.
- **Hardware:** Slide latch

Product Identification:

System 1: A label will be affixed to the bottom bar of the steel roll up door. The label includes the manufacturer's name (Janus International Group, LLC); the model number (1100); the DP is referenced drawing; the design drawing number (T1012); and the test standards (ASTM E 330-14; ANSI/DASMA 108-17)

System 2: A label will be affixed to the bottom bar of the steel roll up door. The label includes the manufacturer's name (Janus International Group, LLC); the model number (1100); the DP is referenced drawing; the design drawing number (T1013); and the test standards (ASTM E 330-14; ANSI/DASMA 108-17)

Limitations:

Allowable Design Pressure: The allowable design pressures for the roll-up doors are specified on the design drawings.

Glazing: None

Impact Resistance: The roll-up doors 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.

Drawings:

System 1: Janus International Group, LLC; Certified Wind Load Rated 26 GA. Series 1100 Door Assembly Max. Size 8'-8" x 14'-0"; Drawing No. T1012, Rev F; Sheet 1 and 2 of 2; revised November 11, 2021; sealed by John E. Scates, P.E., seal date February 25, 2022.

System 2: Janus International Group, LLC; Certified Wind Load Rated 26 GA. Series 1100 Door Assembly Max. Size 10'-0" x 14'-0"; Drawing No. T1013, Rev F; Sheet 1 and 2 of 2; revised November 11, 2021; sealed by John E. Scates, P.E., seal date February 25, 2022.

Installation:

Install the steel roll-up doors to the substrate using one of the following methods (refer to the design drawings referenced in this evaluation report for further guidance and for alternative fasteners):

Attachment to Cast-in-Place Concrete, Pre-Cast Concrete, or Grout-Filled CMU Substrate:

Systems 1 and 2: Guide Mounting: Anchor each guide to the substrate with minimum 5/16" x 2-1/4" Tapcon XL or Dewalt Ultracon anchors. Place the anchors through the interior of the guide into the substrate. Space the anchors a maximum of 12" on center along the length of the guide through the pre-drilled holes in the guide. If the bolt must penetrate through a wall covering, then increase the bolt length by the thickness of the wall covering material. Locate the back end of the guide a minimum of 2-5/8" away from the edge of the door opening. Grout must be minimum 2,500 psi. **Tensioner Bracket Mounting:** Anchor each bracket to the substrate with two (2) minimum 1/4" diameter Powers Wedge-Bolt anchors with a minimum 1-1/2" embedment. If the bolts must penetrate through a wall covering, then increase the bolt length by the thickness of the wall covering material.

Attachment to Steel Substrate:

Systems 1 and 2: Guide Mounting: The steel substrate must be minimum 16-gauge, A653 steel with a minimum $F_y=33$ ksi. Anchor each guide to the substrate with minimum No. 12-14 x 1" self-drilling Pancake head screws. Place the screws through the interior of the guide into the substrate. Space the screws a maximum of 12" on center along the length of the guide through the pre-drilled holes in the guide. If the screws must penetrate through a wall covering, then increase the screw length by the thickness of the wall covering material. **Tensioner Bracket Mounting:** Anchor each bracket to the substrate with two (2) minimum 1/4" diameter steel screws with full penetration into the steel. If the screws must penetrate through a wall covering, then increase the screw length by the thickness of the wall covering material.

Attachment to Wood:

Systems 1 and 2: Guide Mounting: The wood substrate must be minimum Southern Yellow Pine (Specific Gravity 0.55). Anchor each guide to the wood using 1/4" x 2" long lag screws spaced 12" on center. If the screws must penetrate through a wall covering, then increase the screw length by the thickness of the wall covering material. **Tensioner Bracket Mounting:** Anchor each bracket to the substrate with two (2) minimum 3/8" x 2" long lag screws with a minimum 1-1/2"

embedment. If the lag screws must penetrate through a wall covering, then increase the lag screw length by the thickness of the wall covering material.

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.