

Product Evaluation

GDR40 | 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-40

Effective Date: April 1, 2022

Re-evaluation Date: April 2026

Product Name: Series 850 S Steel Roll-Up Doors, Non-Impact Resistant and Impact Resistant

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

General Description:

This evaluation report is for the Series 850 S steel roll-up doors. The doors listed in this evaluation report are impact resistant and non-impact resistant.

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.

This evaluation report includes the following doors listed in Table 1 and Table 2:

Table 1. Series 850 S Doors- Non-Impact Resistant

System	Description	Maximum Width	Maximum Height	Drawing
1	26-Gauge Series 850 S Roll-Up Doors; Single Curtain; Windlocks	12'-0"	12'-0"	T1006-S

Table 2. Series 850 S Doors-Impact Resistant

System	Description	Maximum Width	Maximum Height	Drawing
2	26-Gauge Series 850 S Roll-Up Doors; Single Curtain; Windlocks	8'-8"	12'-0"	T1006-S

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:

Galvanized steel roll-formed from ASTM A 653 steel. The dimensions of the guide are 2" x 4" x 0.097" min/0.102" nom x full length.

Wind Bar:

Galvanized steel roll-formed from ASTM A 653 steel. The dimensions of the guide are 1.188" x 0.984" x 0.188" x 0.097 min"/0.102" nom x full length of guide.

Bottom Bar:

System 1: One 24-gauge galvanized steel bottom bar full length of curtain. One roll-formed steel angle, 2" x 1-1/2" x 0.097" min/0.102" nom x full length of curtain. The steel angle is attached to the steel bottom bar with 1/4" diameter thru bolts and lock nuts. Two (2) bolts are located at each end and two (2) bolts are located at the center. One bolt is located 12" on center. A continuous vinyl bulb astragal is attached to the bottom of the steel bottom bar.

Windlocks:

System 1: Galvanized steel. The dimensions of the windlock are 1.130" x 3.040" x 0.112". The windlock is attached to each side of the curtain at every other corrugation except at the seamed corrugations and at the latch location. Each windlock is attached to the curtain with three (3) 3/16" diameter zinc coated rivets.

Hardware: None.

Limitations:**Maximum Opening Width:**

System 1: The maximum opening width is 12'-0". Refer to Table 3 for specific requirements.

System 2: The maximum opening width is 8'-8". Refer to Table 4 for specific requirements.

Maximum Opening Height: The maximum opening height is 12'-0". Refer to Tables 3 and 4 of the approved drawings for specific requirements.

Glazing: Not permitted.

Allowable Design Pressure Rating: Refer to Tables 3 and 4 and the approved drawings for specific design pressure requirements.

Product Identification:

System 1: The rolling door assemblies have a label that identifies the manufacturer (Janus International Group, LLC); the Model No. (850 S); the DP is per the referenced drawing; the test standards (TAS 202); and the drawing number (T1006 S).

System 2: The rolling door assemblies have a label that identifies the manufacturer (Janus International Group, LLC); the Model No. (850 S); the DP is per the referenced drawing; the test standards (TAS 201, TAS 202, TAS 203); and the drawing number (T1006 S).

Impact Resistance:

System 1: The Series 850 S rolling doors have not been tested for windborne debris resistance for windborne debris.

System 2: The Series 850 S rolling doors have been tested for windborne debris resistance.

Installation:

General: Install these doors in accordance with the manufacturer's published installation instructions the approved drawings, and this product evaluation report. A copy of the approved drawings and the manufacturer's installation instructions must always be available at the job site during installation. The information within this evaluation report governs if there are any conflicts between the manufacturer's instructions and this evaluation report.

Design Drawings: Both the impact and non-impact doors must be installed in accordance with the following drawing:

Janus International Group LLC; Mini Door Series 850-S Max Size 12'-0" x 12'-0"; Drawing T1006-S; Sheets 1 through 2; issued September 15, 2003; Revision F, dated November 11, 2021; signed and sealed January 17, 2022, by John E. Scates, PE. The stated drawings will be referred to as approved drawings in this report. A copy of the approved drawings must be available at the job site.

Anchorage: The rolling doors must be anchored to the structure in accordance with the approved drawings. Minimum edge distances and minimum embedment depths for all fasteners that penetrate into the structure must be as specified on the design drawings and the manufacture's installation instructions.

Tension Bracket Attachment:

Attachment to Cast-in-Place concrete, Pre-Cast Concrete, or Grout-Filled CMU Substrate: Anchor each bracket to the substrate with two minimum 3/8" diameter Dewalt Screw-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:

Anchor each bracket to the substrate with two 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.

Table 3
System 1
Non-Impact Doors (Model 850 S)

Model	Maximum Width	Maximum Height	Drawing	Design Pressure Rating (psf)
850 S	6'-0"	12'-0"	T1006-S Rev F	+64.7; -76.0
	7'-0"			+55.3; -65.0
	8'-0"			+49.4; -58.0
	8'-8"			+46.0; -54.0
	9'-0"			+42.5; -50.0
	10'-0"			+34.9; -41.0
	11'-0"			+28.9; -34.0
	12'-0"			+24.7; -29.0

Table 4
System 2
Impact Doors (Model 850-S)

Model	Maximum Width	Maximum Height	Drawing	Design Pressure Rating (psf)
850-S	6'-0"	12'-0"	T1006-S Rev F	+46.0; -54.0
	7'-0"	12'-0"		+46.0; -54.0
	8'-0"	12'-0"		+46.0; -54.0
	8'-8"	12'-0"		+46.0; -54.0

Note: Keep the manufacturer's installation instructions and the approved design drawings available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.