

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION GDR-39

Effective Date: June 1, 2013

*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 **December 2013**.*

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 shall not exceed the allowable wind loads shown in 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.

Series 750 Steel Roll Up Doors, Non-impact Resistant, as manufactured by:

Janus International Corporation
134 Janus International Blvd.
Temple, Georgia 30179-4435
(770) 562-2850
www.janusintl.com

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this product evaluation and drawings that are referenced in this evaluation report.

PRODUCT DESCRIPTION

This evaluation report is for the Series 750 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. The steel curtain is raised by push-up, hand chain, or electric operation. 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:

System	Description	Maximum Width	Maximum Height
1	26 Gauge Series 750 Roll Up Doors; Single Curtain	3'-0"	12'-0"
2	26 Gauge Series 750 Roll Up Doors; Single Curtain	6'-0"	12'-0"
3	26 Gauge Series 750 Roll Up Doors; Single Curtain; Windlocks	8'-8"	12'-0"
4	26 Gauge Series 750 Roll Up Doors; Single Curtain; Windlocks	10'-0"	12'-0"

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): 18 gauge roll-formed from ASTM A 653 steel. The dimensions of the guide are $1\frac{3}{32}$ " x $1\frac{19}{32}$ ".

Guides (Systems 3 and 4): 16 gauge roll-formed from ASTM A 653 steel. The dimensions of the guide are $2\frac{1}{8}$ " x $2\frac{5}{16}$ ".

Bottom Bar (Systems 1 and 2): One (1) 24 gauge galvanized steel bottom bar full length of curtain. One (1) roll-formed steel angle, 2" x $1\frac{1}{2}$ " x 0.105" x full length. The steel angle is attached to the steel bottom bar with $\frac{1}{4}$ " diameter thru bolts and lock nuts. One bolt is located at each end and two (2) bolts are located at the center. A continuous vinyl bulb astragal is attached to the bottom of the steel angle.

Bottom Bar (Systems 3 and 4): One (1) 24 gauge galvanized steel bottom bar full length of curtain. One (1) roll-formed steel angle, 2" x $1\frac{1}{2}$ " x 0.105" x full length. The steel angle is attached to the steel bottom bar with $\frac{1}{4}$ " diameter thru bolts and lock nuts. Two (2) bolts are located at each end and two (2) bolts are located at the center. One (1) bolt is located 24 inches on center. A continuous vinyl bulb astragal is attached to the bottom of the steel angle.

Windlocks (Systems 3 and 4): 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) $\frac{3}{16}$ " diameter zinc coated rivets.

Hardware: Slide latch.

Product Identification: A label will be affixed to the bottom bar of the steel roll up door. The label shall include the manufacturer's name, model number of door, the allowable design pressure rating, the design drawing number, and compliance with either ASTM E 330 or ANSI/DASMA 108.

LIMITATIONS

System	Maximum Width	Maximum Height	Drawing	Design Pressure Rating (psf)
1	3'-0"	12'-0"	T1000 Rev. B	+35.0, -45.0
2	6'-0"	12'-0"	T1001 Rev. B	+19.9, -24.4
3	8'-8"	12'-0"	T1002 Rev. B	+24.4, -27.0
4	10'-0"	12'-0"	T1003 Rev. B	+19.4, -22.7

Glazing: None.

Impact Resistance: These door assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These door assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection is required. The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

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 (The appropriate drawing listed below shall be available at the job site):

System 1: Janus International Corporation; Certified Wind Load Rated 26 GA. Series 750 Door Assembly Max. Size 3'-0" x 12'-0"; Drawing No. T1000, Rev B; Sheet 1 and 2 of 2; revised 6-17-2009; signed, sealed, and dated 12-04-2012, by Joseph H. Dixon, P.E.

System 2: Janus International Corporation; Certified Wind Load Rated 26 GA. Series 750 Door Assembly Max. Size 6'-0" x 12'-0"; Drawing No. T1001, Rev B; Sheet 1 and 2 of 2; revised 6-17-2009; signed, sealed, and dated 12-04-2012, by Joseph H. Dixon, P.E.

System 3: Janus International Corporation; Certified Wind Load Rated 26 GA. Series 750 Door Assembly Max. Size 8'-8" x 12'-0"; Drawing No. T1002, Rev B; Sheet 1 and 2 of 2; revised 6-17-2009; signed, sealed, and dated 12-04-2012, by Joseph H. Dixon, P.E.

System 4: Janus International Corporation; Certified Wind Load Rated 26 GA. Series 750 Door Assembly Max. Size 10'-0" x 12'-0"; Drawing No. T1003, Rev B; Sheet 1 and 2 of 2; revised 6-17-2009; signed, sealed, and dated 12-04-2012, by Joseph H. Dixon, P.E.

INSTALLATION INSTRUCTIONS

The steel roll up doors shall be installed to the substrate using one of the following methods (refer to the design drawings referenced above for further guidance):

Bolted to cast-in-place, pre-cast concrete, or grout-filled CMU substrate:

Systems 1 and 2: Guide Mounting: Each guide shall be anchored to the substrate with minimum $\frac{1}{4}$ " x $1\frac{3}{4}$ " Powers Wedge-Bolt anchors. The anchors shall be placed through the interior of the guide into the substrate. The anchors shall be spaced a maximum of 24 inches 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 the bolt length shall be increased by the thickness of the wall covering material. The back end of the guide shall be located a minimum of $1\frac{3}{32}$ inches away from the edge of the door opening. Grout shall be minimum 2,500 psi. **Tensioner Bracket Mounting:** Each bracket shall be anchored to the substrate with two (2) minimum $\frac{1}{4}$ " diameter Powers Wedge-Bolt anchors with a minimum $1\frac{1}{2}$ " embedment. If the bolts must penetrate through a wall covering, then the bolt length shall be increased by the thickness of the wall covering material.

Systems 3 and 4: Guide Mounting: Each guide shall be anchored to the substrate with minimum $\frac{5}{16}$ " x $2\frac{1}{4}$ " Tapcon XL anchors. The anchors shall be placed through the interior of the guide into the substrate. The anchors shall be spaced a maximum of 12 inches 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 the bolt length shall be increased by the thickness of the wall covering material. The back end of the guide shall be located a minimum of $2\frac{5}{8}$ inches away from the edge of the door opening. Grout shall be minimum 2,500 psi. **Tensioner Bracket Mounting:** Each bracket shall be anchored to the substrate with two (2) minimum $\frac{1}{4}$ " diameter Powers Wedge-Bolt anchors with a minimum $1\frac{1}{2}$ " embedment. If the bolts must penetrate through a wall covering, then the bolt length shall be increased by the thickness of the wall covering material.

Bolted to steel substrate:

Systems 1 and 2: Guide Mounting: The steel substrate shall be minimum $\frac{1}{8}$ " thick A36 steel. Each guide shall be anchored to the substrate with minimum $\frac{1}{4}$ "-14 x 1" self-drilling TEKS screws. The screws shall be placed through the interior of the guide into the substrate. The screws shall be spaced a maximum of 24 inches 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 the bolt length shall be increased by the thickness of the wall covering material. **Tensioner Bracket Mounting:** Each bracket shall be anchored to the substrate with two (2) minimum $\frac{1}{4}$ " diameter steel screws with full penetration into the steel. If the screws must penetrate through a wall covering, then the screw length shall be increased by the thickness of the wall covering material.

Systems 3 and 4: Guide Mounting: The steel substrate shall be minimum $\frac{1}{8}$ " thick A36 steel. Each guide shall be anchored to the substrate with minimum #12-14 x 1" self-drilling TEKS screws. The screws shall be placed through the interior of the guide into the substrate. The screws shall be spaced a maximum of 12 inches 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 the bolt length shall be increased by the thickness of the wall covering material. **Tensioner Bracket Mounting:** Each bracket shall be anchored to the substrate with two (2) minimum $\frac{1}{4}$ " diameter steel screws with full penetration into the steel. If the screws must penetrate through a wall covering, then the screw length shall be increased by the thickness of the wall covering material.

Note: The manufacturer's installation instructions and the design drawings referenced in this evaluation report 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.