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Product Evaluation

GDR64 | 0519

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-64

Effective Date:May 1, 2019Re-evaluation Date:May 2023

Product Name: W300 Model Steel Rolling Doors, Non-impact Resistant

Manufacturer: Mueller, Inc.

Metal Buildings, Roofing, and Components 1913 Hutchins Avenue Ballinger, TX 76281 (800) 527-1087

General Description:

The Mueller W300 model wind load rated rolling doors are constructed from corrugated, prepainted galvalume steel interlocking panels. All door assemblies are tested and rated for installation in steel wall framing only. The doors are non-impact resistant. The door jambs must be minimum 12-gauge steel.

The doors consist of a single steel curtain suspended from a drum roller and are equipped with windlocks and with wind bars. The curtain is constructed of corrugated steel panels, which are approximately 20" high and are mechanically interlocked. The panels are 26-gauge, ASTM A 653 Grade 80 structural steel. The steel curtain panels are zinc-aluminum. The steel curtain panels are pre-painted with a full coat of primer and are coated with a baked-on siliconized polyester finish or Galvalume Plus.

The door assembly consists of the following components:

Curtain: Consists of 26-gauge corrugated steel that is roll-formed from ASTM A 653 Grade 80 pre-painted steel coil. The corrugated sheets are pre-painted Galvalume or Galvalume Plus. The corrugated pans are interlocked mechanically to form the door's curtain.

Guides: 14-gauge galvanized steel roll-formed from ASTM A 653 Grade 55 steel coil. The dimensions of the guides are 2.23" by 3.25".

Wind Bar: Each guide has a 12-gauge galvanized steel angle bar that is roll-formed from ASTM A 653 Grade 55 steel. The dimensions of the steel angle bar are 1" by 1.4" and extend the length of the jamb within the guide. This forms the guide assembly.

Bottom Bar Assembly: One 24-gauge Galvalume steel bottom bar. The bottom bar extends the full length of the curtain. One roll-formed 12-gauge galvanized steel angle bar, 2" by 1.75" full length of the curtain. The steel angle bar attaches to the steel bottom bar with 1/4" diameter bolts with lock nuts. Two bolts are located at either end and two bolts are located in the center. In addition, self-drilling screws are used between the bolts to sandwich a vinyl bottom astragal between the 24-gauge bottom bar and the 12-gauge steel angle bar. The two bolts on either end attach commercial slide bolt locks.

Windlocks: 10-gauge galvanized steel. The dimensions of the windlock are 3" long by 0.84" deep by 1.13" wide. The windlock is attached to the curtain at every other corrugation. Each windlock attaches to the curtain with two 3/16" diameter zinc coated self-piecing rivets.

Product Identification: The rolling door will have a label affixed to it. The label must include the manufacturer's name, the model number of the rolling door, and the allowable design pressure rating.

Limitations: Maximum Door Width: 16'-0"

Maximum Door Height: 16'-0"

Glazing: Not permitted.

Allowable Design Pressure Rating: +32.2 psf; -36.5 psf. The approved design drawings also specify the allowable design pressure rating.

Impact Resistance:

Impact Resistant	Requirement
No	Provide an impact protective system when installing the product in areas
	requiring windborne debris protection

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.

Installation:

Design Drawings: Install the door in accordance with Sheet No. W300-1, Rev. 1, titled "W300 Model Windlock Roll Up Door," dated February 3, 2011. Wilson J. Bailey, P. E., signed, sealed, and dated the sheet March 3, 2015. This evaluation report refers to the stated drawings as "approved drawings." The approved drawings must be available at the job site.

Installation Guide: Install the W300 roll up door as specified in the "Mueller W300 Installation Guide," Rev 0, dated September 9, 2009. If differences occur between the Installation Guide and the approved drawings, then follow the approved drawings. The Installation Guide must be available at the job site.

Wall Framing: The wall framing (door jambs) must be minimum 12-gauge steel.

Installation: Attach the steel door guides to the minimum 12-gauge steel door jambs with minimum No. $14 \times 1-1/4$ " plated self-drilling screws. Attach the screws the steel door jambs through the center of the guide passing through both the 12-gauge steel angle bar and the 14-gauge guide. Locate the screws at 6" and at 12" intervals starting from the floor. Refer to the approved drawings for fastener locations. Inside the guides is a roll-formed windlock angle bar. The guide assembly's design engages the wind locks under wind loading. The windlocks attach to the curtain utilizing self-piercing rivets (2 per windlock) in every other corrugation (alternate corrugations) with the exception of the top two corrugated pans that connect to the drum assembly of the rolling door.

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