



Product Evaluation

GDR58 | 1114

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-58

Effective Date: November 1, 2014

Re-evaluation Date: November 2018

Product Name: CP0001/CP0651 Rolling Doors, Impact Resistant

Manufacturer: Cornell Iron Works, Inc.
Crestwood Industrial Park
Mountain Top, PA 18707
(800) 233-8366
www.cornelliron.com

General Description:

This evaluation report is for the following impact resistant roll up doors:

- **System 1:** Doors up to 12'-5" wide per design drawing ES 16-42A
- **System 2:** Doors up to 14'-5" wide per design drawing ES 16-42B
- **System 3:** Doors up to 25'-5" wide per design drawing ES 16-42C

Curtain: The curtain is constructed of interlocking steel slats that consist of two individual slats with either urethane insulation, (CP0001 slat), or mineral wool insulation, (CP0651 slat), to fill the space. Slats are 1" deep and 3" high and fabricated from steel meeting the requirements of ASTM A 653 HSLAS Type A Grade 40 G60, HSLAS Type B Grade 40 G60 or ASTM A653 Structural Steel Grade 40 G60 or Type 201, 304, or 430 stainless steel with a minimum yield strength of 40,000 psi. Steel doors are provided with baked on enamel or powder coating finish while stainless steel doors are provided with a #4 finish. Cast iron windlocks are attached to the ends of the slats with 1/4" rivets. Refer to design drawing for details.

Bottom Bar: The bottom bar is constructed of two (2), 2" x 2" full width steel or stainless steel angles attached to the curtain with 3/8" hex bolts at 18" on center. Refer to design drawing for details.

General Description (Continued):

Guides: The guides are constructed of three structural steel angles bolted together to form either a “Z” or “E” shape with a 3/8" x 3/4" steel windlock bar attached to one angle with 1/4" fillet welds. Refer to design drawing for details.

Product Identification: The garage door will have a label affixed. The label must include the manufacturer’s name, manufacturing product code, and the allowable design pressure rating.

Limitations:

System	Maximum Opening Width	Allowable Design Pressure Rating (psf)
1	12'-5"	±60
2	14'-5"	±120
3	25'-5"	±60

- **Maximum Opening Height:** 30'-0" for all units
- **Glazing:** Not permitted
- **Impact Resistance:** The doors listed in this report satisfy TDI’s criteria for protection from windborne debris in the **Inland I** and the **Seaward zone**. The door assemblies passed the equivalent of Missile Level D as specified in ASTM E1996-04. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.
- **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 Instructions:

- **Design Drawings:** Install the doors as specified on the design drawings: Cornell Drawings ES 16-42A, ES 16-42B and ES 16-42C, Revision A, dated January 9, 2014, signed and sealed by Joseph H. Dixon, P.E. on January 16, 2014.
- **Attachment of Doors to Wall Framing:** Attach the doors to either structural steel with 1/4" fillet welds or Hex Head bolts or to minimum 3,000 psi concrete with Simpson Wedge-All or Hilti Kwik Bolt anchors. Refer to the engineering drawings for details on attachment.

Note: Have the manufacturer’s installation instructions and the engineering drawings (stamped and signed by Joseph H. Dixon, P.E.) available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.