



# Product Evaluation

GDR101 | 0215

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-101

**Effective Date:** February 1, 2015

**Re-evaluation Date:** February 2019

**Product Name:** Models 203J and 204J Windlock Commercial Sheet Doors, Non-Impact Resistant

**Manufacturer:** ASTA Door Corporation  
4255 McEver Industrial Drive  
Acworth, GA 30101  
(770) 974-2600  
[www.astadoor.com](http://www.astadoor.com)

## General Description:

**General:** The Model 203J and 204J doors are windlock commercial sheet doors that consist of the following components:

- **Curtain:** Single curtain consisting of 26-gauge steel corrugated sheets that span between the guides located on each side of the opening. The sheets are manufactured from ASTM A 653 grade 60 zinc coated steel and are pre-painted with a full coat of primer and baked polyester finish coat.
- **Guides:** The guides are roll-formed 12-gauge galvanized steel. Each side of the door requires a guide. The guides are continuous from the bottom to the top of the door.
- **Heavy Duty Guide Clip:** Roll-formed 10-gauge galvanized steel angle. The angle leg on the guide side is 1-3/4" x 2" and the angle leg on the wall side is 2" x 1-3/4". Secure the heavy-duty guide clip to the guide with welds. A continuous weld located across the top of the clip and spot welds on each side. The approved drawings specify the heavy-duty guide clip spacing.
- **Guide Insert:** The guide insert is roll-formed 12-gauge galvanized steel. The guide insert is continuous from the bottom to the top of the door with an opening for the slide bolt lock to pass at the bottom of the guide. Secure the guide insert to the guide with a 1/2" toggle lock.
- **Windlocks:** 10-gauge galvanized 110 degree clips that are riveted to each side of the steel curtain. The windlock clips are located on six corrugations per side of each sheet.
- **Bottom Bar:** Reinforce the steel curtain with a bottom bar. The bottom bar consists of a 1.125" x 2" x 12-gauge galvanized J-angle attached to an aluminum extrusion with an EPDM astragal. The bottom bar assembly extends the full width of the opening.

- **Insulation:** The 204J door has insulation that is mylar and polyethylene insulation laminated to the corrugated sheet.

**Product Identification:** A label will be affixed to the steel roll up door. The label must include the manufacturer's name, series number of door, the allowable design pressure rating, and the design drawing number.

**Limitations:**

**Design Drawings:** Install the doors in accordance with the following drawing: "Model 203J Windlock Commercial Sheet Door," drawing #507-3CMU-203JM, sheets 1 through 2 of 2, dated December 3, 2014, signed and sealed by Joseph H. Dixon, P.E. on December 3, 2014. This report refers to the stated drawings as the approved drawings. Keep the approved drawings available at the job site.

**Wall Construction:** Mount the doors to the following types of wall construction:

- Cast-in-place concrete (minimum 3,000 psi)
- CMU grout filled jamb (minimum 3,000 psi grout)
- Steel, minimum 3/16" thick, A36

**Maximum Door Width:** 18'-0"

**Maximum Door Height:** 21'-0"

**Glazing:** Not permitted.

**Allowable Design Pressure Rating:** The allowable design pressure varies as a function of door width. The allowable design pressures range from +18, -20 psf for 18 ft wide doors to +48.2, -53.1 psf for 8 ft wide doors. Refer to the approved drawings for the appropriate allowable design pressure.

**Product Identification:** A label will be affixed to the door. The label shall include the manufacturer name; the model number of the door; the design pressure rating for the door; and compliance with either ASTM E 330-02 or ANSI/DASMA 108-05.

**Impact Resistance:** The doors listed in this report do not satisfy TDI's criteria for protection from windborne. Provide an impact protective system when installing the product in areas that require 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 Instructions:**

**General Installation Requirements:** Install the doors in accordance with the manufacturer's installation instructions, the approved drawings, and this product evaluation report.

**Wall Construction:** Mount the doors to the following types of wall construction:

- Cast-in-place concrete (minimum 3,000 psi)
- CMU grout filled jamb (minimum 3,000 psi grout)
- Steel, minimum 3/16" thick, A36

**Anchorage:** Anchor the doors to the structure using the heavy-duty guide clip and the guide in accordance with the approved drawings. Anchor the heavy duty guide clip and the guide to either concrete or steel substrates shall follow the mounting details on the approved drawings and the fasteners specified in the mounting details. The design drawings specify the minimum embedment depths for all fasteners that penetrate into the concrete.

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