

## Product Evaluation

GDR91 | 0722

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-91

**Effective Date:** July 1, 2022

**Re-evaluation Date:** July 2026

**Product Name:** Model 203IM and Model 204IM Windlock Commercial Steel Sheet Doors, Impact Resistant

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

### General Description:

**General:** The Model 203IM and Model 204IM 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. A guide is required on each side of the door. The guides are continuous from the bottom to the top of the door.

- **Heavy Duty Guide Clip:** Roll-formed 12-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". The heavy-duty guide clip is secured to the guide with welds. A continuous weld located across the top of the clip and spot welds on each side. The heavy-duty guide clip spacing is as specified on the approved drawings.
- **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. The guide insert is secured to the guide with a 1/2" Tog-Lok, spaced every 3".
- **Windlocks:** 19-gauge galvanized 110-degree clips that are riveted to each side of the steel curtain. The windlock clips are located on every rise of each corrugation of the curtain, and spaced every 3-1/2", excluding the seam connections.
- **Bottom Bar:** The steel curtain is reinforced with a bottom bar. The bottom bar consists of a 2" x 2" x 3/16" steel angle with an EPDM astragal. The bottom bar assembly extends the full width of the opening.
- **Insulation:** The Model 204IM door has double foil insulation that is adhered to the coil side of the steel curtain using fast-tack glue and mylar tape.

**Limitations:**

**Design Drawings:** The doors must be installed in accordance with the following drawing: "Model 203IM Impact Rated Windlock Commercial Sheet Door;" drawing no. 203IM-TDI; sheets 1 and 2; sealed by John E Scates, P.E.; digitally signed and sealed on May 24, 2022.

The stated drawings are referred to as approved drawings in this evaluation report.

A copy of the approved drawings must be available at the job site.

**Maximum Door Width:** 14'-0"

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

**Glazing:** Not permitted.

**Allowable Design Pressure Rating:** ±40 psf.

**Product Identification:** A label will be affixed to the door. The label includes the manufacturer name (ASTA America by Janus International); the model number of the door (203IM); the design pressure rating for the door; and compliance with ASTM E330-14; ANSI/DASMA 108-17; ANSI/DASMA 115-16.

**Impact Resistance:** The doors listed in this report are impact resistant. The door assemblies passed the equivalent of Missile Level D as specified in ASTM E1996-14a. For essential facilities, the assembly may not be installed below a height of 30 feet in Wind Zone 3 and may be installed at all heights in Wind Zone 2 as defined in ASTM E 1996-14a.

**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:**

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

**Wall Construction:** The doors must be mounted to the following types of wall construction:

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

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

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