

John E. Scates, Professional Engineer

June 26, 2023

ASTA Door Corporation
638 Cassville White Rd NW
Cartersville, GA 30121

Re: ASTA Series 400/600 Rolling Doors

To Whom It May Concern:

At the request of ASTA Door Corporation, I have reviewed the drawings and tests listed below. The tests were conducted by Intertek and Underwriters Laboratories according to ANSI/DASMA 108 and ANSI/DASMA 115 test procedures. The pressure listed on the drawings are the direct result of these tests or conservative engineering rational analysis from the actual tests, except that no rational analysis was allowed on Impact products. I have concluded that the construction shown on these drawings comply with the structural requirements of the 7th Edition (2020) Florida Building Code. I certify that I meet the requirements of "independence" as detailed in Florida Statutes.

Drawings

400-IM-WL-C RevD 400/600 Series Angle Guides Roll-Up door with F265 Slat

Test Reports

Testing was conducted at Intertek and UL to support the design claims on the drawings.

Test K3172.01-550-44 by Intertek,
dated 12/12/2019 24' wide DASMA 108-17 and 115-17

Test SV30743-20190730 by Underwriters Laboratories
dated 8/16/2019 16' wide DASMA 108-17 and 115-17

Test SV30743-20190918 by Underwriters Laboratories
dated 10/15/2019 16' wide DASMA 108-17 and 115-17

Test SV30743-20191113 by Underwriters Laboratories
dated 11/22/2019 16' wide DASMA 108-17 and 115-17

Test Facility & Procedures

The UL LLC test facility was located at:
750 Anthony Trail
Northbrook, IL 60062

The Intertek test facility was located at:
1701 Westfork Dr, Suite 106
Lithia Springs, GA 30122

Static testing was conducted in accordance with **ANSI/DASMA 108-2017**.
Impact and Pressure Cycle testing was conducted in accordance with **ANSI/DASMA 115-2017**.

The test reports were signed by an authorized representative of the Labs, which were accredited independent laboratories.

These doors are not intended for the High Velocity Hurricane Zone (HVHZ).

Calculations

The loads applied to the jambs by the door via direct pressure and end-tension catenary forces were computed using industry standard methods. These results are shown as "Vx" and "Vy" on sheet 2 of each drawing.

Installation Instructions

Anchorage Requirements:

The door drawing includes means to attach the door to Steel, Concrete, or filled-CMU building structure as detailed on Sheet 2.

This Evaluation Report does not address design of the wall/jambs themselves, but provides the anticipated jamb loads that will be generated by this product, Vx and Vy, also illustrated on Sheet 2.

Model Descriptions

Series 400 are commercial steel rolling doors that include Models 424, 422, 420, and 418 doors.

Series 600 are the same products, but use double-skin insulated slats that include Models 624, 622, 620, and 618. Interior slat cover is 24 or 22 gauge

These doors consist of the following components:

- Slats: 24, 22, 20, or 18 gauge galvanized cold roll steel formed in continuous lengths. The slats span between the guides located on each side of the opening. The slats are manufactured from ASTM A653 G40 zinc coated steel and are finished with a baked epoxy primer and/or baked polyester top coat.
- Guides: The guides are structural steel. The guide assembly consists of four steel angles: A wall angle (3.00" x 3.00" x 0.25"); an inner angle (3.00" x 3.50" x 0.25"); a service cutout (3.00" x 3.50" x 0.25"); and an outer angle (2.00" x 3.00" x 0.1875"). A guide assembly is required on each side of the door. The guide assembly is continuous from the bottom to the top of the door.
- Windlocks: The cast iron windlock clips are secured to every other slat beginning at the bottom slat. The windlock clips are secured to the slats with steel zinc plated rivets.
- Bottom Bar: Consists of two (2) steel angles (each 2.00" x 2.00" x 0.125") with a continuous vinyl bulb astragal. The bottom bar assembly extends the full width of the opening.

Additional Limitations

The drawing cited above is an explicit part of this evaluation report. The text of this report does not attempt to address all design details but relies upon the illustrations and text of the drawing and instructions as well.

Each door should be chosen based on the "psf" requirement determined for a specific installation or locale.

The maximum opening width approved with this report is 32' (non-impact)

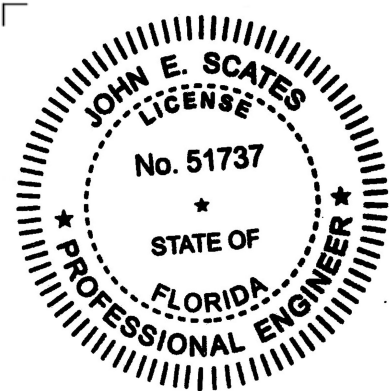
The maximum opening width approved with this report is 24' (Impact)

The maximum door height is 30'.

The user of this product is reminded that rolling doors can generate substantial catenary forces at the jambs ("Vx"). The building jambs must be designed to withstand these loads in combinations of Vx with Vy(+), and Vx with Vy(-) shown on sheet 2 of the drawings.

These doors have been evaluated for impact and non-impact. The table on Sheet 1 of the drawing lists the design loads for each condition, at a variety of widths.

These products are *not* intended for the Florida High Velocity Hurricane Zone (HVHZ).



Digitally signed by John E Scates

Date: 2023.06.26 11:02:49 -05'00'

John E. Scates, P.E.

Florida PE # 51737

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