

John E. Scates, Professional Engineer

June 11, 2021

Wayne-Dalton, a division of Overhead Door Corporation
2501 S State Hwy 121 Bus, Suite 200
Lewisville, TX 75067

Re: FL 16628-R5
Windloaded Rolling Steel Doors Models 800 & 800C

To Whom It May Concern:

As requested by Wayne-Dalton (a division of Overhead Door Corporation), I have confirmed the wind load door designs shown on the drawings listed below. I have reviewed the test reports and verified the product drawings via well-established rational analysis methods. I have concluded that the door designs comply with the structural requirements of the 7th Edition (2020) Florida Building Code.

There are two families of slat curtains within this evaluation.

- Flat slats (#14-uninsulated and #34-insulated) were evaluated using testing of the #14 slat
- Curved slats (#4) were evaluated from a foundation of 22 windload door tests.

The door configurations listed on the drawings were then designed within the allowable limits established by the actual door tests using comparative rational analysis.

Some variations of the Flat Slat doors are also rated for Impact.

Drawings

035-0051 Rev-	800 Series, #14 & #34 Slat,	up to 22' wide at +31/-31 psf
035-0052 Rev-	800 Series, #14 & #34 Slat,	up to 22' wide at +37/-37 psf
035-0053 Rev-	800 Series, #14 & #34 Slat,	up to 22' wide at +47/-47 psf
706-1638 RevB	800 Series, #4 Slat,	up to 22' wide at +31/-31 psf
706-1639 RevB	800 Series, #4 Slat,	up to 22' wide at +37/-37 psf
706-1640 RevB	800 Series, #4 Slat,	up to 22' wide at +47/-47 psf
706-1641 RevB	800 Series, #4 Slat,	up to 22' wide at +55/-55 psf

Test Reports

#4 curved slat

ATI	01-41331.06 (4 doors)	E330-97
ATI	01-41331.07 (8 doors)	E330-97
ATI	01-41331.08 (7 doors)	E330-97
ATI	01-41331.09 (3 doors)	E330-97

#14 flat slat

ATI	01-46387.01	TAS 201/202/203-94
ATI	01-46388.01	TAS 201/202/203-94
ATI	01-46389.01	E330-97
ATI	01-46389.02	E330-97
ATI	01-46389.03	E330-97
ATI	01-46389.04	E330-97
ATI	67981.01-109-18	TAS 201/202/203-94
ATI	71156.01-109-18	TAS 201/202/203-94
ATI/Intertek	F7663.03-109-18	TAS 201/202/203-94
ATI/Intertek	F7666.01-109-18	TAS 201/202/203-94
ATI/Intertek	F7667.01-109-18	TAS 201/202/203-94

Test Facility & Procedures

All testing was conducted in a manner that complied with **ANSI/DASMA 108-2017** and/or **TAS 201/202/203-94**. I certify equivalence that E330-97 and TAS 201/202/203-94 are forward compatible with ANSI/DASMA 108-2017.

The Architectural Testing Inc (ATI and ATI/Intertek) test lab was located at:
130 Derry Court
York, PA.

This test lab was accredited for these procedures at the time of testing.

Installation Instructions

The drawings provide installation instructions peculiar to windload reinforcement.

Jamb Attachment

The door is to be secured to the building using the fasteners specified in the Chart and Notes on each drawing as a minimum.

Architects and other users are reminded that rolling door products can produce substantial "catenary" loads that pull toward the center of the opening during wind load in addition to the normal "perpendicular" forces. The building structure must be designed to withstand the "moment", "normal" and "parallel" forces, which are tabulated in the Chart and illustrated in the guide diagrams.

Model Descriptions

Windload Door, Model 800 are rolling steel doors with slat curtains.

Models

The 800 uses non-insulated slats (#4 and #14)

The 800C uses insulated slats (#34)

This evaluation imposes these limitations on the "options" of the 800 and 800C:

- Minimum 22 ga slat thickness
- Steel or Stainless Steel slats may be used.
- Stainless Steel *slats* may also be available with Stainless Steel *guides*.

Additional Limitations

The drawings cited above are 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 these drawings as well.

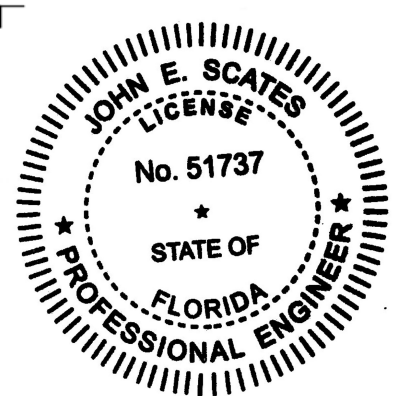
Each door should be chosen based on the "psf" requirement determined for a specific installation or locale.

Max door height for this product is 30'.

Max door width for this product is 22'.

Specific variations of these doors were tested per TAS 201/203 and approved for Impact. These impact-rated doors appear on the 035-xxxx drawings, which are itemized in the last line of the specification tables.

These doors are *not* claiming compliance with Florida High Velocity Hurricane Zone (HVHZ).



Digitally signed by John E. Scates, P.E.

Date: 2021.06.11 14:14:54 -05'00'

John E. Scates, P.E.

Florida PE # 51737

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