

John E. Scates, Professional Engineer

October 11, 2023

Overhead Door Corporation
2501 S State Hwy 121 Bus, Suite 200
Lewisville, TX 75067

Re: FL 17404
Windloaded Rolling Steel Doors Series 627

To Whom It May Concern:

As requested by 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 are in compliance with the 8th Edition (2023) Florida Building Code.

This evaluation was built upon a foundation of 22 windload door tests that were used to validate the engineering calculation methods at various known points (Reference FL 742). Additionally, two more tests were performed with this specific curtain slat to generate slat-specific modifications. Using these calculation methods, the door configurations listed on the drawings were then designed within the allowable limits established by the actual door tests using comparative rational analysis.

Drawings

308746 Rev C	Windload Door, Series 627,	up to 30' wide at +26/-26 psf
308747 Rev C	Windload Door, Series 627,	up to 30' wide at +31/-31 psf
308748 Rev C	Windload Door, Series 627,	up to 30' wide at +36/-36 psf
308749 Rev C	Windload Door, Series 627,	up to 30' wide at +41/-41 psf
308750 Rev C	Windload Door, Series 627,	up to 30' wide at +50/-50 psf

Test Reports

Static Pressure Testing:

W-D 041014B	9' Series 627 to +38.0/-38.0	DASMA 108-2005
ATI D5389.01-109-44	22' Series 627 to +38.0/-38.0	ASTM E330-02

Test Facility & Procedures

All testing was conducted in a manner that complied with **ANSI/DASMA 108-2017**.

The Wayne-Dalton test lab was located at:

3395 Addison Dr.
Pensacola, FL

The Architectural Testing Inc (ATI) test lab was located at

130 Derry Court
York, PA.

These test labs were accredited for these procedures at the time of testing.

Installation Instructions

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, Series 627 is an insulated-slat rolling steel door. The 627 uses a flat-slat that is polyurethane insulated, roughly 1.5" thick and 2-5/8" tall, with 24 gage minimum exterior thickness.

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.

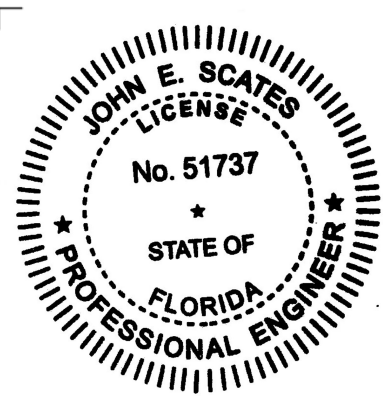
Max door height for this product is 30'.

Max door width for this product is 30'.

These doors have not been evaluated for use in the Florida High Velocity Hurricane Zone (HVHZ).

Digitally signed by John E Scates
Date: 2023.10.11 15:50:29 -05'00'

John E. Scates, P.E.
Florida PE # 51737



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