

John E. Scates, Professional Engineer

December 20, 2023

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

Re: FL 11305
Windloaded Rolling Fire Door

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 independent tests by Architectural Testing Inc., the rational engineering analysis, and the product drawings. 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. 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.

Additional testing was conducted according to TAS 202 (static) and TAS 201/203 (impact) on specific configurations shown on drawings D-308220, D-308221, D-308231, D-208232.

As of this writing, these drawings/products carried Dade NOA:

- D-308232 is NOA 20-1130-10
- D-308231 is NOA 20-1130-11

In addition to the pressure and impact testing, doors were subjected to UL 10B testing as a fire door. These tests are not documented here because they are not part of this windload evaluation.

I certify that I meet the requirements of "independence" as detailed in Florida Statutes

Drawings

D-308218 Rev C	Windload Fire Door, F-265,	14' wide up to +41/-41 psf
D-308219 Rev C	Windload Fire Door, Insulated,	14' wide up to +41/-41 psf
D-308220 Rev C	Windload Fire Door, F-265,	14' wide up to +50/-50 psf
	special construction also allows up to +65/-65 psf	
D-308221 Rev C	Windload Fire Door, Insulated,	14' wide up to +50/-50 psf
	special construction also allows up to +65/-65 psf	

D-308231 Rev F	Windload Fire Door, F-265,	14' wide up to +65/-65 psf	HVHZ
D-308232 Rev G	Windload Fire Door, Insulated,	14' wide up to +65/-65 psf	HVHZ

Test Reports

Static Pressure Testing per ANSI/DASMA 108:

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

Static/Impact Testing of specific configurations:

ATI 89465.01-109-18 (TAS 202, TAS 201/203), Model 630 uninsulated
ATI 89469.01-109-18 (TAS 202, TAS 201/203), Model 635 insulated

Test Facility & Procedures

Static testing was conducted in accordance with ANSI/DASMA 108-2012 at Architectural Testing Inc (ATI) at 130 Derry Court, York, PA.

Additional windload testing was conducted according to TAS 202-94 (static) and TAS 201/203-94 (impact) on specific configurations shown on drawings D-308220 D-308221, D-308231, and D-308232.

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

Additional testing per TAS 201/202/203-94 on some products.

The test lab was 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 “normal” and “parallel” forces, which are tabulated in the Chart and illustrated in Section “B-B”.

Model Descriptions

Windload Fire Door, F265 is a rolling steel door that has been subjected to testing both as a windloaded door, and as a fire door. This F265 product uses a flat-slat curtain that is uninsulated and 22 gage minimum thickness.

Windload Fire Door, Insulated is a rolling steel door that has been subjected to testing both as a windloaded door, and as a fire door. The Insulated product uses a flat-slat curtain that is insulated: The slat is constructed from a 22-gage exterior / 24-gage interior minimum thickness steel. The insulation within the slat is mineral wool as required for the “fire door” function.

The standard curtain requires a windlock on every 2nd slat to achieve:

- up to +41/-41 psf (drawings 308218 and 308219).
- up to +50/-50 psf (drawings 308220 and 308221).

When equipped with windlocks on every slat, with 22 gage min. slats, and with guides constructed according to the “65 psf impact” columns shown on drawings 308220 and 308221, these doors also achieve up to +65/-65 psf according to TAS 201/202/203 testing. See Note 7 on these drawings.

- up to +65/-65 psf (drawings 308231 and 308232) HVHZ.

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'.

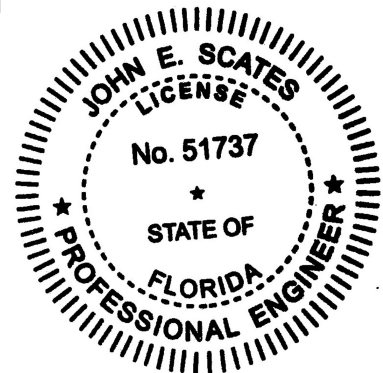
Max door width for this product is 14'.

Door width may not exceed the documented door width. On *Impact-rated* products, doors narrower than tested width are allowed, but carry the same psf as the tested product and use the same construction.

These doors have not been evaluated for use in the Florida High Velocity Hurricane Zone (HVHZ) *except for* D-308231 and D-308232.

Digitally signed by John E Scates
Date: 2023.12.20 13:59:44 -06'00'

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



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