

John E. Scates, Professional Engineer

September 26, 2023

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

Re: FL 00742
Evaluation Report for Series 610/611 & 620/621 & 625/626 Rolling Steel Doors

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 actual 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.

Drawings

Static Pressure products:

308082 Rev. K Windload, Series 610/611, C187 slat.

Limitations: 26 psf Design, Maximum door width 20', Maximum door height 30'

308083 Rev. K Windload, Series 610/611, C187 slat.

Limitations: 31 psf Design, Maximum door width 20', Maximum door height 30'

308084 Rev. K Windload, Series 610/611, C187 slat.

Limitations: 36 psf Design, Maximum door width 20', Maximum door height 30'

308085 Rev. K Windload, Series 610/611, C187 slat.

Limitations: 41 psf Design, Maximum door width 20', Maximum door height 30'

308086 Rev. K Windload, Series 610/611, C187 slat.

Limitations: 50 psf Design, Maximum door width 20', Maximum door height 30'

308087 Rev. K Windload, Series 610/611, C275 slat.

Limitations: 26 psf Design, Maximum door width 40', Maximum door height 30'

308088 Rev. K Windload, Series 610/611, C275 slat.

Limitations: 31 psf Design, Maximum door width 40', Maximum door height 30'

308089 Rev. K Windload, Series 610/611, C275 slat.

Limitations: 36 psf Design, Maximum door width 40', Maximum door height 30'

308090 Rev. K Windload, Series 610/611, C275 slat.

Limitations: 41 psf Design, Maximum door width 40', Maximum door height 30'

308091 Rev. K Windload, Series 610/611, C275 slat,

Limitations: 50 psf Design, Maximum door width 35', Maximum door height 30'

308092 Rev. L Windload, Series 610/611/620/621, F265 slat.

Limitations: 26 psf Design, Maximum door width 40', Maximum door height 30'

308093 Rev. L Windload, Series 610/611/620/621, F265 slat.

Limitations: 31 psf Design, Maximum door width 40', Maximum door height 30'

308094 Rev. L Windload, Series 610/611/620/621, F265 slat.

Limitations: 36 psf Design, Maximum door width 40', Maximum door height 30'

308095 Rev. L Windload, Series 610/611/620/621, F265 slat.

Limitations: 41 psf Design, Maximum door width 40', Maximum door height 30'

308096 Rev. L Windload, Series 610/611/620/621, F265 slat.

Limitations: 50 psf Design, Maximum door width 35', Maximum door height 30'

308097 Rev. K Windload, Series 625/626, FIP slat.

Limitations: 26 psf Design, Maximum door width 40', Maximum door height 30'

308098 Rev. K Windload, Series 625/626, FIP slat.

Limitations: 31 psf Design, Maximum door width 40', Maximum door height 30'

308099 Rev. K Windload, Series 625/626, FIP slat.

Limitations: 36 psf Design, Maximum door width 40', Maximum door height 30'

308100 Rev. K Windload, Series 625/626, FIP slat.

Limitations: 41 psf Design, Maximum door width 40', Maximum door height 30'

308101 Rev. K Windload, Series 625/626, FIP slat.

Limitations: 50 psf Design, Maximum door width 35', Maximum door height 30'

Impact tested according to TAS 201 and TAS 203:

308086 Rev. K Windload, Series 610/611, C187 slat.

Limitations: 50 psf Design, Maximum door width 10', Maximum door height 30'

308091 Rev. K Windload, Series 610/611, C275 slat,

Limitations: 50 psf Design, Maximum door width 16', Maximum door height 30'

308096 Rev. L Windload, Series 610/611/620/621, F265 slat.

Limitations: 50 psf Design, Maximum door width 16', Maximum door height 30'

308101 Rev. K Windload, Series 625/626, FIP slat.

Limitations: 50 psf Design, Maximum door width 22', Maximum door height 30'

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 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”.

Test Reports

Testing was conducted at Architectural Testing Inc (ATI) at 130 Derry Court, York, PA.

All testing was conducted in a manner that complied with ANSI/DASMA 108-2017 and/or TAS 201/203-1994.

Static Pressure Testing:

Static pressure tests were conducted in accordance with ASTM E-330-2002.
ATI 01-41331.06 (4 doors), ATI 01-41331.07 (8 doors),
ATI 01-41331.08 (7 doors), ATI 01-41331.09 (3 doors)

Impact Testing:

Impact testing was conducted in accordance with TAS 201-94 and TAS 203-94.
ATI 01-43463.01 (C187), ATI 01-43463.02 (C275/F265),
ATI 01-43464.01 (FIP), ATI 01-43464.02 (FIP)

Model Descriptions

These model descriptions are specific to this Evaluation.

Model 610 is a rolling steel door using non-insulated slats
Model 611 is a 610 configured as a high-cycle springless door.

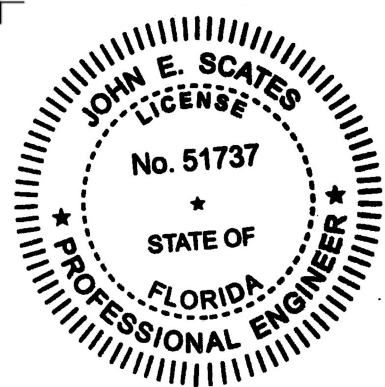
Model 620 is a rolling steel door using non-insulated slats with additional weatherseals.
Model 621 is a 620 configured as a high-cycle springless door.

Model 625 is a rolling steel door using insulated FIP (insulated) slats with additional weatherseals.
Model 626 is a 625 configured as a high-cycle springless door.

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 and instructions as well.

This product ***is not*** intended for the Florida High Velocity Hurricane Zone (HVHZ).



Digitally signed by John E Scates
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