

John E. Scates, Professional Engineer

August 11, 2020

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

Re: FL 05587-R13
Evaluation Report for Residential Model 9700/9500 door family

To Whom It May Concern:

At the request of Wayne-Dalton, a Division of Overhead Door Corporation, I have reviewed the drawings and tests listed below. These doors were tested for static pressure at an accredited laboratory according to ANSI/DASMA 108. The pressures listed on the drawings are a direct result of these tests. I have concluded that the construction shown on these drawings comply with the structural requirements of the 7th Edition (2020) of the Florida Building Code. I certify that I meet the requirements of "independence" as detailed in Florida Statutes.

Drawings

All drawings include Model 9700 and 9500 family of products.

Option Code 0500, 313584 RevH up to 9' wide, +12.8 / -14.8 psf
Option Code 0501, 313631 RevG up to 9' wide, +12.8 / -14.8 psf
Option Code 0502, 313585 RevH up to 9' wide, +22.9 / -26.3 psf
Option Code 0503, 313632 RevH up to 9' wide, +22.9 / -26.3 psf
Option Code 0504, 313586 RevG up to 9' wide, +26.9 / -30.8 psf
Option Code 0505, 313613 RevG up to 9' wide, +26.9 / -30.8 psf
Option Code 0506, 313587 RevG up to 9' wide, +31.2 / -35.8 psf
Option Code 0507, 313633 RevG up to 9' wide, +31.2 / -35.8 psf
Option Code 0508, 318957 RevG up to 9' wide, +35.7 / -41.0 psf
Option Code 0509, 313612 RevG up to 9' wide, +45.3 / -51.2 psf
Option Code 0510, 313625 RevH up to 10' wide, +12.8 / -14.8 psf
Option Code 0511, 313634 RevH up to 10' wide, +12.8 / -14.8 psf
Option Code 0512, 313626 RevH up to 10' wide, +19.2 / -22.0 psf
Option Code 0513, 313635 RevH up to 10' wide, +19.2 / -22.0 psf
Option Code 0514, 313627 RevG up to 10' wide, +22.9 / -26.3 psf
Option Code 0515, 320503 RevG up to 10' wide, +22.9 / -26.3 psf
Option Code 0516, 313628 RevG up to 10' wide, +26.9 / -30.8 psf
Option Code 0517, 313637 RevG up to 10' wide, +26.9 / -30.8 psf
Option Code 0518, 313614 RevG up to 10' wide, +31.2 / -35.8 psf
Option Code 0519, 313638 RevF up to 10' wide, +41.0 / -46.3 psf

Option Code 0520, 313621 RevH up to 16' wide, +12.4 / -13.8 psf
 Option Code 0521, 313622 RevH up to 16' wide, +15.3 / -17.0 psf
 Option Code 0522, 313620 RevH up to 16' wide, +15.3 / -17.0 psf
 Option Code 0523, 313623 RevG up to 16' wide, +18.5 / -20.7 psf
 Option Code 0524, 313639 RevG up to 16' wide, +18.5 / -20.7 psf
 Option Code 0525, 313640 RevG up to 16' wide, +22.0 / -24.5 psf
 Option Code 0526, 313641 RevF up to 18' wide, +18.5 / -20.7 psf
 Option Code 0527, 313643 RevF up to 18' wide, +15.3 / -17.0 psf
 Option Code 0528, 313643 RevF up to 18' wide, +18.5 / -20.7 psf
 Option Code 0532, 318954 RevG up to 18' wide, +22.0 / -24.5 psf
 Option Code 0536, 359173 RevC up to 16' wide, +23.0 / -25.0 psf
 Option Code 0537, 359174 RevC up to 16' wide, +27.0 / -31.0 psf
 Option Code 0538, 359175 RevC up to 18' wide, +26.3 / -29.3 psf
 Option Code 0539, 359176 RevC up to 16' wide, +30.0 / -33.5 psf
 Option Code 0540, 359177 RevC up to 16'-2" wide, +39.2 / -43.7 psf
 Option Code 0541, 359178 RevC up to 18'-2" wide, +30.0 / -33.5 psf

Note: The drawing titles above are simply descriptive, and do not represent any limitation on the sizes and pressures. The content of the drawings specify the allowable pressure(s).

Test Reports

These products were tested for **Static pressure per DASMA 108**

ETR-8500 for O.C. 0500, Drawing 313584, Model 9700
 ETR-8501 for O.C. 0501, Drawing 313631, Model 9700
 ETR-8502 for O.C. 0502, Drawing 313585, Model 9700
 ETR-8503 for O.C. 0503, Drawing 313632, Model 9700
 ETR-8504 for O.C. 0504, Drawing 313586, Model 9700
 ETR-8507 for O.C. 0505, Drawing 313613, Model 9700
 ETR-8508 for O.C. 0506, Drawing 313587, Model 9700
 ETR-9206 for O.C. 0507, Drawing 313633, Model 9700
 ETR-8510 for O.C. 0508, Drawing 318957, Model 9700
 ETR-8513 for O.C. 0509, Drawing 313612, Model 9700
 ETR-8514 for O.C. 0510, Drawing 313625, Model 9700
 ETR-8515 for O.C. 0511, Drawing 313634, Model 9700
 ETR-8516 for O.C. 0512, Drawing 313626, Model 9700
 ETR-8517 for O.C. 0513, Drawing 313635, Model 9700
 ETR-8518 for O.C. 0514, Drawing 313627, Model 9700
 ETR-8520 for O.C. 0515, Drawing 320503, Model 9700
 ETR-8521 for O.C. 0516, Drawing 313628, Model 9700
 ETR-8522 for O.C. 0517, Drawing 313637, Model 9700
 ETR-8523 for O.C. 0518, Drawing 313614, Model 9700
 ETR-9207 for O.C. 0519, Drawing 313638, Model 9700
 ETR-8525 for O.C. 0520, Drawing 313621, Model 9700

ETR-8526 for O.C. 0521, Drawing 313622, Model 9700
ETR-9377 for O.C. 0521, Drawing 313622, **Model 9510**
ETR-8527 for O.C. 0522, Drawing 313620, Model 9700
ETR-8538 for O.C. 0523, Drawing 313623, Model 9700
ETR-8539 for O.C. 0524, Drawing 313639, Model 9700
ETR-8540 for O.C. 0525, Drawing 313640, Model 9700
ETR-8543 for O.C. 0526, Drawing 313641, Model 9700
ETR-8544 for O.C. 0527, Drawing 313643, Model 9700
ETR-8545 for O.C. 0528, Drawing 313643, Model 9700
ETR-8546 for O.C. 0532, Drawing 318954, Model 9700
ETR-9208 for O.C. 0536, Drawing 359173, Model 9700
ETR-9209 for O.C. 0537, Drawing 359174, Model 9700
ETR-9210 for O.C. 0538, Drawing 359175, Model 9700
ETR-9211 for O.C. 0539, Drawing 359176, Model 9700
ETR-9352 for O.C. 0540, Drawing 359177, Model 9700
ETR-9429 for O.C. 0540, Drawing 359177, **Model 9510**
ETR-9213 for O.C. 0541, Drawing 359178, Model 9700

Test Facility & Procedures

Static testing was conducted in accordance with **ANSI/DASMA 108-05 (and -2012, -2017)** at the Overhead Door TREQ test facility in Dallas, Texas in 2020.

The test lab was accredited for these procedures at the time of testing.
The tests were signed by a licensed Professional Engineer of Florida.

Installation Instructions

The drawings provide installation instructions peculiar to windload reinforcement.

Jamb attachment:

The door may be mounted directly to a wood-framed opening only if the wood is Southern Pine (Spec. Gravity 0.55). Otherwise 2x6 wood "Back Jamb" or "bucks" are needed, attached to the building structure as a surface to secure the track brackets, as detailed in the "Jamb Connection Supplement, p/n 363342-P01".

This Evaluation Report does not address design of the wall/jambs themselves. These drawings only illustrate common means to attach the door to the jambs. Walls and Jambs should be designed (by others) to withstand the loads imposed by the door onto the building.

Model Descriptions

All tested doors were Model 9100. Included in this evaluation as “equivalent” are:

Model 9700:

Model 9700 is a foamed-in-place polyurethane door with 27 gauge exterior / 30 gauge interior steel skins. Top and bottom rails have a thickness of 1-9/16”, while the mid-height of the exterior has a ½" deep recess that may include optional decorative trim. Maximum section height is 27-3/4".

Model 9510:

Model 9510 is a foamed-in-place polyurethane door with 27 gauge exterior / 30 gauge interior steel skins. The overall thickness of the door is 1-9/16" with embossed panel patterns on the exterior. Maximum section height is 27-3/4".

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.

The horizontal track may be reinforced with an angle as needed to support the door weight. The construction of the horizontal track, including the track thickness and additional support when needed, is determined by Wayne-Dalton and does not affect this windload evaluation.

The rated pressures may not be achieved unless the door is held closed during the wind event. The door must be locked closed, or alternately an electric drawbar operator attached to the door prior to the wind event.

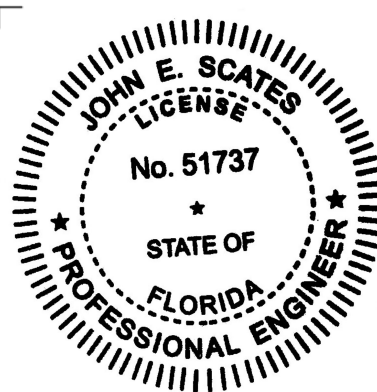
Some of these products include an option for windows or "lites". Windows are only allowed in the top section of these doors, as illustrated on the drawings.

These products were not tested for wind-borne debris.

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

Digitally signed by John E. Scates, P.E.
Date: 2020.08.11 16:07:19 -05'00'

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



The digitally signed file is the original. Printed copies are not originals (just as copies of paper-signed documents are not originals).