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August 2, 2020

Re: Evaluation Report for Models TS150/200/200-20  
FL# 10958

**SUBMITTED BY:**

Wayne Dalton, A Division of Overhead Door Corporation  
3395 Addison Drive  
Pensacola, FL 32514

One Door Drive  
P.O. Box 67  
Mt. Hope, OH 44660

**1. PRODUCT NAME**

Models TS150/200/200-20

**2. SCOPE OF EVALUATION**

Structural Transverse Wind Loads and Large Missile Impact and Cyclic Wind Pressure Resistance. Since every door size cannot be tested, engineering analysis using a comparative analysis, as permitted per the Florida Product approval 61G20-3, were used to analyze the doors and make the wind load designs.

**3. USES**

Models TS150/200/200-20 garage doors are used for commercial applications with specified allowable design pressures.

**4. DESCRIPTION**

**General**

Model TS150/200/200-20 doors are sectional overhead garage doors and are constructed of steel/polyurethane/steel sandwich type tongue and groove sections with a baked-on polyester primer and polyester finish equal to ASTM A525. Each model is insulated with a high-density polyurethane core and reinforced with 1-3/4" roll formed steel integral ribs sealed with polypropylene rib caps. Each model has a standard astragal and retainer. All steel skin is constructed of ASTM A653-00 CS Type B steel and finished with a minimum ASTM A525 G-40 galvanized coating.

The Model TS150 has 1-3/8" thick panels with a minimum 28 gage exterior skin and 28 gage interior skin.

The Model TS200 has 2" thick panels with a minimum 26 gage exterior skin and 28 gage interior skin.

The Model TS200-20 has 2" thick panels with a minimum 20 gage exterior skin and 28 gage interior skin.

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Aluminum full view section shall be constructed of 6063-T6 extruded aluminum. Each section shall be comprised of vertical and horizontal aluminum extrusions.

#### **Door Tracks**

All door assemblies listed in this report have both vertical and horizontal tracks from a minimum 16 gage, 33 ksi steel and finished with an ASTM A525 G-40 galvanized coating. The vertical tracks are attached to the supporting structure with jamb brackets as specified on the most recent manufacturer's installation instructions/drawings.

#### **Glazed Sections**

Glazing option is available with a minimum of 0.125-inch thick DSB glass windows that may be installed in the intermediate sections of the door. Glazing shall have a maximum height of 6.70" and a maximum length of 24.00"

#### **Wind Load Bracing**

All option code assemblies listed in Table 1 of this report are either un-reinforced or braced on the inside of the doors with three-inch horizontal spanning U-bars.

Three-inch U-bars are made of either 18 gauge or 20 gage ASTM A653-00 steel with a minimum yield of 80 ksi and are finished with an ASTM A525 minimum G-40 galvanized coating.

Refer to most recent manufacturer's installation instructions/drawings for the locations of the wind load bracing specific to each option code assembly.

#### **Jamb Attachment**

Method of securing the door to the mounting surface is detailed in the Jamb Connection Supplement, P/N 324620.

### **5. INSTALLATION**

All drawings listed in this report are to be installed in accordance with the most recent manufacturer's published installation instructions/drawings and this report.

The most recent manufacturer's installation instructions/drawings shall be strictly adhered to and a copy of these instructions/drawings shall be available at all times on the job site during installation.

### **6. ALLOWABLE TRANSVERSE WIND LOADS**

Design wind load pressures for garage doors shall be determined in accordance with Florida Building Code and shall not exceed the allowable transverse wind loads shown in the following table.

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**Table 1: Models TS150/200/200-20**  
**Allowable Transverse Wind Loads and Impact Rating**

| Windload<br>Specification<br>Option Code | Maximum Size |        | Positive<br>Design PSF | Negative<br>Design PSF | AFV<br>Available | Glazing<br>Available<br>(Yes/No) |
|------------------------------------------|--------------|--------|------------------------|------------------------|------------------|----------------------------------|
|                                          | Width        | Height |                        |                        |                  |                                  |
| 2110                                     | 10'-2"       | 24'-1" | 14.50                  | 16.40                  | Yes              | Yes                              |
| 2111                                     | 10'-2"       | 24'-1" | 24.50                  | 27.70                  | Yes              | Yes                              |
| 2112 <sup>2</sup>                        | 10'-2"       | 24'-1" | 28.40                  | 32.20                  | Yes              | Yes                              |
| 2113 <sup>2</sup>                        | 10'-2"       | 24'-1" | 32.60                  | 36.90                  | Yes              | Yes                              |
| 2120                                     | 12'-2"       | 24'-1" | 11.40                  | 12.70                  | Yes              | Yes                              |
| 2122 <sup>2</sup>                        | 12'-2"       | 24'-1" | 28.40                  | 32.20                  | Yes              | Yes                              |
| 2130                                     | 14'-2"       | 24'-1" | 11.40                  | 12.70                  | Yes              | Yes                              |
| 2131 <sup>2</sup>                        | 14'-2"       | 24'-1" | 20.90                  | 23.60                  | Yes              | Yes                              |
| 2140                                     | 16'-2"       | 24'-1" | 11.40                  | 12.70                  | Yes              | Yes                              |
| 2141                                     | 16'-2"       | 24'-1" | 20.90                  | 23.60                  | Yes              | Yes                              |
| 2143 <sup>2</sup>                        | 16'-2"       | 24'-1" | 27.50                  | 31.00                  | Yes              | Yes                              |
| 2150                                     | 24'-2"       | 24'-1" | 14.00                  | 15.70                  | No               | Yes                              |
| 2151                                     | 24'-2"       | 24'-1" | 20.90                  | 23.60                  | No               | Yes                              |

Note:<sup>2</sup> The option code assemblies indicated in Table 1 have been tested for impact resistance.

## 7. SUBSTANTIATING DATA

1. Test Report Numbers 032420A, 032420B, 032520A, 032620B, 032620C, 040120A, 040120B, 040220B, 040620A, 040620B, 040620C, 040620D, 040820A, 040820B, 041420A, 052120A, 060220A and 062620A in accordance with ANSI/DASMA 108-2017 for transverse wind load and ANSI/DASMA 115-2017 for large missile impact resistance by Wayne Dalton, a Division of Overhead Door Corporation, 3395 Addison Dr Pensacola, FL.
2. Both test labs were accredited at the time of testing.
3. Installation instructions and supplemental data sheets prepared by Wayne Dalton, a Division of Overhead Door Corporation.

## 8. REPORT SUMMARY

Upon review of the data submitted by Wayne Dalton, a Division of Overhead Door Corporation, it is my opinion that the models as described in this report conform with or are a suitable alternative to the code standards and sections in the Florida Building Code.

## 9. LIMITATIONS

Any reference in this report to the manufacturer's "most recent" information is a direct reference to the most recent information submitted by Wayne Dalton, a Division of Overhead Door Corporation to the Florida Building Commission as part of their Florida Product Approval application for the drawings listed in Table 1 of this report. This evaluation report and the most recent installation instructions, when required by the building official, shall be submitted at the time of permit application.

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The design of the supporting structural elements shall be the responsibility of the design professional for the building structure and in accordance with current building codes for the loads listed in Table 1 of this report. The doors shall not be located in areas where the transverse wind loads exceed the allowable loads shown in Table 1 of this report.

#### 10. IDENTIFICATION

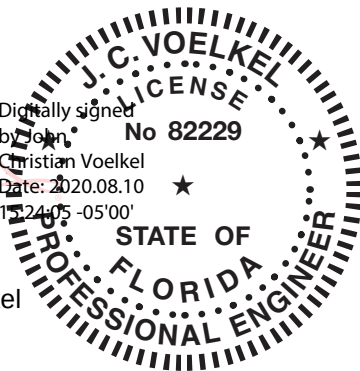
Each Model series covered by this report shall be labeled with the manufacturer's name and/or trademark for field identification.

Please feel free to contact me if you need any additional information.

Sincerely,

John  
Christian  
Voelkel

Digitally signed  
by John  
Christian Voelkel  
Date: 2020.08.10  
15:24:05 -05'00'



Christian Voelkel  
FL PE 82229

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A Subsidiary of Sanwa Holdings Corporation

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