

The Genuine. The Original.



Overhead Door Corporation
2501 S. State Hwy 121, Suite 200
Lewisville, TX 75067
Phone 469 549 7100
Fax 469 549 7281
www.overheaddoor.com

August 19, 2025

Re: Evaluation Report for Models 170-175, 177, 180-185, 187, 1400, 1440, 1500, 1540
FL46804

SUBMITTED BY:

Overhead Door Corporation
3395 Addison Drive
Pensacola, FL 32514

1. PRODUCT NAME

Models 170-175, 177, 180-185, 187, 1400, 1440, 1500, 1540

2. SCOPE OF EVALUATION

Structural Transverse Wind Loads and Large Missile Impact and Cyclic Wind Pressure Resistance.

3. USES

Models 170-175, 177, 180-185, 187, 1400, 1440, 1500, 1540 garage doors are used for residential and commercial applications with specified allowable design pressures.

4. DESCRIPTION

General

Models 170-175, 177, 180-185, 187, 1400, 1440, 1500, 1540 doors are sectional overhead garage doors and are constructed of galvanized steel sections with a two-coat polyester finish. The doors are two-inch thick raised panel doors with tongue and groove sections. They are the same door with one exception. The 17x Series and 1400/1440 Models are non-insulated, and the 18x Series and 1500/1540 Models are insulated with 1-5/8-inch thick expanded polystyrene. They are constructed of minimum 26 gauge ASTM A653-00 galvanized FS Type B steel, and finished with an ASTM A525 made up of G-30 coating, covered with two coats of polyester paint. Each section is reinforced with 16 or 20 gauge end stiles and 20 gauge steel center stiles.

Door Tracks

All door assemblies listed in this report have both vertical and horizontal tracks ranging from a minimum 16 gauge to maximum 13 gauge, 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.

Overhead Door Corporation
A Subsidiary of Sanwa Holdings Corporation

The Genuine. The Original.



Glazed Sections

Option code assemblies listed in Table 1 of this report with glazed openings that meet the requirements for impact resistance have glazing that is made of ¼" polycarbonate constructed per windload drawings or an equivalent product approved for use in Florida, and can be installed in the top or intermediate sections of the garage door. These assemblies are available for use with the glazing option in wind-borne debris regions and are indicated so in Table 1. The maximum glazing dimensions shall have DLO 39.93" x 11.06" with cut-out 41.9 x 13".

The drawings that are not indicated for use in wind-borne debris regions with the glazing option are available with a minimum of 0.090-inch thick standard annealed SSB glass windows that are installed in frames and inserted in the top or intermediate section of the door. The glazing is not impact resistant and does not meet the requirements for windborne debris regions. The maximum glazing dimensions shall have DLO 39.93" x 11.06" with cut-out 41.9 x 13". Refer to the most recent manufacturer's installation instructions/drawings for glass size limitations.

This product offering conforms with ASTM E 1300.

Wind Load Bracing

All drawings listed in Table 1 of this report are braced on the inside of the doors with either three-inch or four-inch horizontal spanning U-bars. Each U-bar is made of either 16-gauge, 18-gauge or 20-gauge ASTM A653-00 steel with a minimum yield strength of 80 ksi and are finished with an ASTM A525 minimum G-40 galvanized coating. The gauge and quantity of U-bar braces varies depending on the amount of windload resistance required and the height of the door.

Jamb Attachment

Method of securing the door to the mounting surface is detailed with each door drawing.

6. 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.

7. ALLOWABLE TRANSVERSE WIND LOADS

Design wind load pressures for garage doors shall be determined in accordance with section 1609 of the 2023 Florida Building Code and shall not exceed the allowable transverse wind loads shown in the following tables:

Table 1: Models 170-175, 177, 180-185, 187, 400, 1440, 1500, 1540 Allowable Transverse Wind Loads and Impact Rating

Windload Specification Option Code	Drawing Number	Maximum Size		Positive Design PSF	Negative Design PSF	Reinforcement	Glazing Available (Yes/No)	Door Impact Resistant (Yes/No)
		Width	Height					
1109 ¹	412659	9'-0"	14'-0"	26.9	30.8	3", 20 gauge U-bars	Yes	Yes
1110 ¹	412660	9'-0"	14'-0"	31.0	35.0	3", 20 gauge U-bars	Yes	Yes
1111 ¹	412661	9'-0"	14'-0"	37.0	41.0	3", 20 gauge U-bars	Yes	Yes
1113 ¹	412663	9'-0"	14'-0"	41.3	46.7	2" and 3", 20 gauge U-bars	Yes	Yes
1114 ¹	412664	9'-0"	14'-0"	46.0	52.0	3", 20 gauge U-bars	Yes	Yes
1127 ¹	412665	16'-0"	14'-0"	23.0	25.0	3", 20 gauge U-bars	Yes	Yes
1136 ¹	412666	16'-0"	14'-0"	26.0	29.0	3", 18 gauge U-bars	Yes	Yes
1129 ¹	412667	16'-0"	14'-0"	30.0	33.5	3", 18 gauge U-bars	Yes	Yes
1130 ¹	412668	16'-0"	14'-0"	32.6	36.9	3", 18 gauge U-bars, 4", 16 gauge U-bars	Yes	Yes
1132 ¹	412670	16'-0"	14'-0"	34.4	38.3	3", 18 gauge U-bars	Yes	Yes
1133 ¹	412671	16'-0"	14'-0"	41.3	46.7	3", 20 gauge U-bars, 4", 16 gauge U-bars	Yes	Yes
1135 ¹	412673	16'-2"	14'-0"	46.0	52.0	3", 20 gauge U-bars, 4", 16 gauge U-bars	Yes	Yes
1149 ¹	412674	18'-0"	14'-0"	23.0	25.0	3", 18 gauge U-bars	Yes	Yes
1150 ¹	412675	18'-0"	14'-0"	26.0	29.0	3" and 4", 18 gauge U-bars	Yes	Yes
1152 ¹	412677	18'-0"	14'-0"	32.6	36.9	3" and 4", 18 gauge U-bars	Yes	Yes
1154 ¹	412679	18'-0"	14'-0"	34.4	38.3	3", 18 gauge U-bars, 4", 16 gauge U-bars	Yes	Yes
1155 ¹	412680	18'-0"	14'-0"	41.3	46.7	3", 18 gauge U-bars, 4", 16 gauge U-bars	Yes	Yes
1157 ¹	412682	18'-2"	14'-0"	46.0	52.0	4", 16 gauge U-bars	Yes	Yes

Note 1: The option code assemblies indicated in Table 1 have optional glazing that has been tested for impact resistance, and therefore may be used with optional glazing in the wind-borne debris region.

8. SUBSTANTIATING DATA

Windload Specification Option Code	Drawing Number	Maximum Size		Positive Design PSF	Negative Design PSF	Static Test Reports	Impact/Cyclic Test Reports
		Width	Height				
1109	412659	9'-0"	14'-0"	26.9	30.8	072021B	091421A, 091621A, 091721A
1110	412660	9'-0"	14'-0"	31.0	35.0	072021A	072621A, 072821A, 072921A
1111	412661	9'-0"	14'-0"	37.0	41.0	072121C	081021A, 081121A, 081221A
1113	412663	9'-0"	14'-0"	41.3	46.7	092121A, 072121B	082021A, 090821A, 090921A 092121B, 092221A, 092321A
1114	412664	9'-0"	14'-0"	46.0	52.0	072121A	083121A, 090121A, 090721A
1127	412665	16'-0"	14'-0"	23.0	25.0	020222A	020221B, 020322A, 020822A
1136	412666	16'-0"	14'-0"	26.0	29.0	011122A	011122A, 011222A, 011322A
1129	412667	16'-0"	14'-0"	30.0	33.5	110921B	122021B, 122821A, 010422A 120721A, 121321A, 121621A
1130	412668	16'-0"	14'-0"	32.6	36.9	122021A, 110921A	122021B, 122821A, 010422A 120721A, 121321A, 121621A

1132	412670	16'-0"	14'-0"	34.4	38.3	11241A	112421B, 113021A, 120221A
1133	412671	16'-0"	14'-0"	41.3	46.7	020922A, 110121A	110221A, 110421A, 110821A 022322A, 022422A, 030222A
1135	412673	16'-2"	14'-0"	46.0	52.0	101421A	101521A, 101821A, 101921A
1149	412674	18'-0"	14'-0"	23.0	25.0	AETR-00501	AETR-00579
1150	412675	18'-0"	14'-0"	26.0	29.0	AETR-00517	AETR-00584
1152	412677	18'-0"	14'-0"	32.6	36.9	AETR-00824	AETR-00612
1154	412679	18'-0"	14'-0"	34.4	38.3	AETR-00537	AETR-00555
1155	412680	18'-0"	14'-0"	41.3	46.7	AETR-00624	AETR-00625
1157	412682	18'-2"	14'-0"	46.0	52.0	AETR-00546	AETR-00554

1. Installation instructions and supplemental data sheets prepared by Overhead Door Corporation.

9. CODE REFERENCES

Florida Building Code 2023 Edition and/or Standards
 Section 1609 Wind Loads
 Section 1715.5.3 TAS 202
 Section 1715.5.3.1 ANSI/DASMA 108
 ANSI/DASMA 115
 TAS 201,203

10. REPORT SUMMARY

Upon review of the data submitted by 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 2023 edition listed in section 9 of this report.

11. LIMITATIONS

Any reference in this report to the manufacturer's "most recent" information is a direct reference to the most recent information submitted by Overhead Door Corporation to the Florida Building Commission as part of their Florida Product Approval application for the drawings listed in Table 2 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.

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.

The garage door assemblies listed in Table 1 of this report are not approved for use in the "High Velocity Hurricane Zone" as defined in the Florida Building Code.

12. IDENTIFICATION

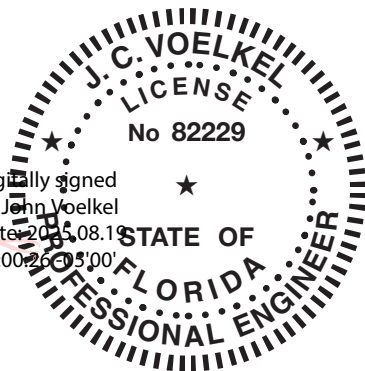
Each Model series covered by this report shall be labeled with the manufacturer's name and/or trademark for field identification.

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

Sincerely,

**John
Voelkel**

Digitally signed
by John Voelkel
Date: 2025.08.19
11:00:26 -05'00'



J. Christian Voelkel
Voelkel Engineering, LLC
103 Bay Bridge Drive
Gulf Breeze, FL 32561
FL PE 82229