

## Product Evaluation

GDR148 | 0522

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

**Evaluation ID:** GDR-148

**Effective Date:** May 1, 2022

**Re-evaluation Date:** August 2025

**Product Name:** Models 190, 490, 160, 591, 592, 593, 594, 599, 5740, 5760, 7560 Steel Sectional Garage Doors, Impact and Non-Impact Resistant

**Manufacturer:** Overhead Door Corp.  
3395 Addison Drive  
Pensacola, FL 32514  
(850) 474-9890

One Door Drive  
P.O. Box 67  
Mt. Hope, OH 44660  
(330) 763-8000

**General Description:**

The Models 190, 490, 160, 591, 592, 593, 594, 599, 5740, 5760, 7560 are insulated sectional overhead doors constructed from galvanized steel sections with foamed in place polyurethane insulation.

The Model 190, 593, 594, and 5740 doors have 1-3/8" thick panels.

The Model 591 doors have 1-5/8" thick panels.

The Model 490, 592, 599, and 5760 doors have 2" thick panels.

The Model 160 and 7560 doors have 1-3/8" thick panels with a decorative overlay.

Tables denoted as "All Glazed Option" permit the fully glazed sections in every section of the doors. Alternately, glazing may be omitted from any position in any section.

**Product Identification:** The door will have a wind load label, applied by the installer, which includes the manufacturer's name (Overhead Door), The model numbers for the doors; the drawing number; the design pressure rating for the door; the test standards (ANSI/DASMA 108 or TAS 202 and ANSI/DASMA 115 or TAS 201/TAS 203); and the TDI product evaluation number (GDR-148).

**Limitations:**

This evaluation report includes both impact and non-impact resistant doors.

The non-impact resistant doors include the option for glazing.

The impact resistant doors include the option for glazing.

The maximum height of each door section must not exceed 24".

The maximum door height must not exceed 24'-0".

The doors have a maximum door width of 22'-2".

The exterior door steel is constructed of 29-gauge steel. The interior door steel is constructed of 29-gauge steel.

The doors are reinforced with either 16-gauge, 18-gauge, or 20-gauge steel U-bars for horizontal reinforcement. The placement and installation of the horizontal reinforcement are shown on the design drawings.

## Non-Impact Resistant Doors

**Design Drawings:** Specified in Table 1A and Table 1B.

**Allowable Dimensions:** Specified in Table 1A and Table 1B.

**Glazing (Optional):** Glass type, allowable dimensions, and the attachment of the glass to the door panels is specified on the design drawings.

**Design Pressure and Height Limitations:** Specified in Table 1A and Table 1B.

**Impact Protection:** These doors have not been tested for windborne debris resistance. Doors that contain glazing may not be installed without protection from an impact protective system in areas where windborne debris protection is required.

**Table 1A**  
Non-Impact Resistant Doors

Drawing Part No.	Windload Specification Option Code	Maximum Door Width	Maximum Door Height	Glass	Design Pressure (psf)
411703 Rev B 2/16/22 Sealed: 3/1/22	2201	9'-2"	24'-0"	Yes	+19.10; -20.60
411704 Rev B 2/16/22 Sealed: 3/1/22	2202	9'-2"	24'-0"	Yes	+22.90; -26.30
411705 Rev B 2/16/22 Sealed: 3/1/22	2203	9'-2"	24'-0"	Yes	+26.90; -30.80
411706 Rev B 2/16/22 Sealed: 3/1/22	2204	9'-2"	24'-0"	Yes	+35.70; -41.00
411707 Rev B 2/16/22 Sealed: 3/1/22	2205	9'-2"	24'-0"	Yes	+41.00; -46.30

**Table 1A**  
**(Continued)**  
Non-Impact Resistant Doors

<b>Drawing Part No.</b>	<b>Windload Specification Option Code</b>	<b>Maximum Door Width</b>	<b>Maximum Door Height</b>	<b>Glass</b>	<b>Design Pressure (psf)</b>
411708 Rev B 2/16/22 Sealed: 3/1/22	2206	9'-2"	24'-0"	Yes	+46.00; -52.00
411709 Rev B 2/16/22 Sealed: 3/1/22	2207	9'-2"	24'-0"	Yes	+64.00; -72.00
411711 Rev B 2/16/22 Sealed: 3/1/22	2211	12'-2"	24'-0"	Yes	+19.30; -21.60
411712 Rev B 2/16/22 Sealed: 3/1/22	2212	12'-2"	24'-0"	Yes	+22.40; -25.10
411713 Rev B 2/16/22 Sealed: 3/1/22	2213	12'-2"	24'-0"	Yes	+25.70; -28.80
411714 Rev B 2/16/22 Sealed: 3/1/22	2214	12'-2"	24'-0"	Yes	+33.10; -37.00
411716 Rev B 2/16/22 Sealed: 3/1/22	2241	16'-2"	24'-0"	Yes	+23.00; -25.00
411717 Rev B 2/16/22 Sealed: 3/1/22	2242	16'-2"	24'-0"	Yes	+30.00; -33.50
411718 Rev B 2/16/22 Sealed: 3/1/22	2243	16'-2"	24'-0"	Yes	+34.40; -38.30
411720 Rev B 2/16/22 Sealed: 3/1/22	2251	18'-2"	24'-0"	Yes	+23.00; -25.00
411721 Rev B 2/16/22 Sealed: 3/1/22	2254	18'-2"	24'-0"	Yes	+30.00; -33.50
411723 Rev B 2/16/22 Sealed: 3/1/22	2261	22'-2"	24'-0"	No	+20.15; -22.50

**Table 1B**  
 Non-Impact Resistant Doors  
 All Glazed Option

<b>Drawing Part No.</b>	<b>Windload Specification Option Code</b>	<b>Maximum Door Width</b>	<b>Maximum Door Height</b>	<b>Glass</b>	<b>Design Pressure (psf)</b>
411821 Rev A 2/16/22 Sealed: 3/1/22	2601	9'-2"	24'-0"	Yes	+18.40; -20.80
411822 Rev A 2/16/22 Sealed: 3/1/22	2602	9'-2"	24'-0"	Yes	+24.00; -28.00
411823 Rev A 2/16/22 Sealed: 3/1/22	2603	9'-2"	24'-0"	Yes	+32.60; -36.90
411824 Rev A 2/16/22 Sealed: 3/1/22	2604	9'-2"	24'-0"	Yes	+36.80; -41.60
411825 Rev A 2/16/22 Sealed: 3/1/22	2605	9'-2"	24'-0"	Yes	+41.30; -46.70
411828 Rev A 2/16/22 Sealed: 3/1/22	2608	16'-2"	24'-0"	Yes	+18.40; -20.80
411829 Rev A 2/16/22 Sealed: 3/1/22	2609	16'-2"	24'-0"	Yes	+25.00; -28.20
411830 Rev A 2/16/22 Sealed: 3/1/22	2610	16'-2"	24'-0"	Yes	+32.60; -36.90
411831 Rev A 2/16/22 Sealed: 3/1/22	2611	16'-2"	24'-0"	Yes	+36.80; -41.60
411832 Rev A 2/16/22 Sealed: 3/1/22	2612	16'-2"	24'-0"	Yes	+41.30; -46.70
411835 Rev A 2/16/22 Sealed: 3/1/22	2615	18'-2"	24'-0"	Yes	+18.40; -20.80
411836 Rev A 2/16/22 Sealed: 3/1/22	2616	18'-2"	24'-0"	Yes	+25.00; -28.20

**Table 1B  
(Continued)**  
Non-Impact Resistant Doors  
All Glazed Option

Drawing Part No.	Windload Specification Option Code	Maximum Door Width	Maximum Door Height	Glass	Design Pressure (psf)
411837 Rev A 2/16/22 Sealed: 3/1/22	2617	18'-2"	24'-0"	Yes	+32.00; -36.90
411838 Rev A 2/16/22 Sealed: 3/1/22	2618	18'-2"	24'-0"	Yes	+36.80; -41.60
411839 Rev A 2/16/22 Sealed: 3/1/22	2619	18'-2"	24'-0"	Yes	+41.30; -46.70

### Impact Resistant Doors

**Design Drawings:** Specified in Table 2A and Table 2B.

**Allowable Dimensions:** Specified in Table 2A and Table 2B.

**Glazing (Optional):** The glazing is minimum 1/4" polycarbonate. Refer to the design drawings for the attachment of the glazing frame to the door panel and for the allowable dimensions of the glazing.

**Design Pressure and Height Limitations:** Specified in Table 2A and Table 2B.

**Impact Protection:** These door assemblies satisfy the Texas Department of Insurance criteria for protection from windborne debris. These doors passed the equivalent of Missile Level D specified in ASTM E 1996-14a. These doors would not need to be protected with an impact protective system if they are installed in areas where windborne debris protection is required. The doors may not be installed on essential facilities as defined in ASCE 7-16.

**Table 2A**  
Impact Resistant Doors

<b>Drawing Part No.</b>	<b>Windload Specification Option Code</b>	<b>Maximum Door Width</b>	<b>Maximum Door Height</b>	<b>Glass</b>	<b>Design Pressure (psf)</b>
411705 Rev B 2/16/22 Sealed: 3/1/22	2203	9'-2"	24'-0"	Yes	+26.90; -30.80
411706 Rev A 2/16/22 Sealed: 3/1/22	2204	9'-2"	24'-0"	Yes	+35.70; -41.00
411707 Rev B 2/16/22 Sealed: 3/1/22	2205	9'-2"	24'-0"	Yes	+41.00; -46.30
411708 Rev B 2/16/22 Sealed: 3/1/22	2206	9'-2"	24'-0"	Yes	+46.00; -52.00
411709 Rev B 2/16/22 Sealed: 3/1/22	2207	9'-2"	24'-0"	Yes	+64.00; -72.00
411712 Rev B 2/16/22 Sealed: 3/1/22	2212	12'-2"	24'-0"	Yes	+22.40; -25.10
411713 Rev B 2/16/22 Sealed: 3/1/22	2213	12'-2"	24'-0"	Yes	+25.70; -28.80
411714 Rev B 2/16/22 Sealed: 3/1/22	2214	12'-2"	24'-0"	Yes	+33.10; -37.00
411717 Rev B 2/16/22 Sealed: 3/1/22	2242	16'-2"	24'-0"	Yes	+30.00; -33.50
411718 Rev B 2/16/22 Sealed: 3/1/22	2243	16'-2"	24'-0"	Yes	+34.40; -38.30
411720 Rev B 2/16/22 Sealed: 3/1/22	2251	18'-2"	24'-0"	Yes	+23.00; -25.00
411721 Rev B 2/16/22 Sealed: 3/1/22	2254	18'-2"	24'-0"	Yes	+30.00; -33.50

**Table 2B**  
Impact Resistant Doors  
All Glazed Option

<b>Drawing Part No.</b>	<b>Windload Specification Option Code</b>	<b>Maximum Door Width</b>	<b>Maximum Door Height</b>	<b>Glass</b>	<b>Design Pressure (psf)</b>
411822 Rev A 2/16/22 Sealed: 3/1/22	2602	9'-2"	24'-0"	Yes	+24.00; -28.00
411823 Rev A 2/16/22 Sealed: 3/1/22	2603	9'-2"	24'-0"	Yes	+32.60; -36.90
411824 Rev A 2/16/22 Sealed: 3/1/22	2604	9'-2"	24'-0"	Yes	+36.80; -41.60
411825 Rev A 2/16/22 Sealed: 3/1/22	2605	9'-2"	24'-0"	Yes	+41.30; -46.70
411829 Rev A 2/16/22 Sealed: 3/1/22	2609	16'-2"	24'-0"	Yes	+25.00; -28.20
411830 Rev A 2/16/22 Sealed: 3/1/22	2610	16'-2"	24'-0"	Yes	+32.60; -36.90
411831 Rev A 2/16/22 Sealed: 3/1/22	2611	16'-2"	24'-0"	Yes	+36.80; -41.60
411832 Rev A 2/16/22 Sealed: 3/1/22	2612	16'-2"	24'-0"	Yes	+41.30; -46.70
411836 Rev A 2/16/22 Sealed: 3/1/22	2616	18'-2"	24'-0"	Yes	+25.00; -28.20
411837 Rev A 2/16/22 Sealed: 3/1/22	2617	18'-2"	24'-0"	Yes	+32.00; -36.90
411838 Rev A 2/16/22 Sealed: 3/1/22	2618	18'-2"	24'-0"	Yes	+36.80; -41.60
411839 Rev A 2/16/22 Sealed: 3/1/22	2619	18'-2"	24'-0"	Yes	+41.30; -46.70



**Installation:****Design Drawings:**

The drawings are signed, sealed, and dated by Dwayne J. Kornish, PE. Table 1A, Table 1B, Table 2A, and Table 2B indicate the drawing revision, drawing revision date, and the seal date of the engineer.

**Attachment of Doors to Walls (Use one of the following methods):**

**Attachment of Door Components to Wood-Framed Walls Using a Wood Jamb:** Brackets for the vertical tracks and for the flag angles of the door must be attached directly to wood jambs with the fasteners specified on the design drawings. The wood jambs and the attachment of the wood jambs to the wood framed walls must be as specified in the Jamb Connection Supplement, Drawing Number 411526, Rev P01, signed and sealed on April 26, 2021, by John Scates, P.E.

**Attachment of Door Components to Concrete/Masonry Block Walls Using a Wood Jamb:**

Brackets for the vertical tracks and for the flag angles of the door shall be attached directly to wood jambs with the fasteners specified on the design drawings. The wood jambs and the attachment of the wood jambs to the concrete/masonry block walls must be as specified in the Jamb Connection Supplement, Drawing Number 411526, Rev 01, signed and sealed on April 26, 2021, by John Scates, P.E.

**Attachment of Door Components to Using Direct Mount Method:** Brackets for the vertical tracks and for the flag angles of the door must be attached directly to the wall framing in accordance with the Jamb Connection Supplement, Drawing Number 411526, Rev 01, signed and sealed on April 26, 2021, by John Scates, P.E.

**Commercial Track Supplement (Available for all Doors):** Doors may be secured to the wall framing of the structure in accordance with the Track Supplement Chart, Drawing No. 307494, Rev. P12, signed and sealed on December 1, 2020, by Dwayne J. Kornish, P.E. Design pressure rating and maximum door width may be limited by this supplement.

**Note:** The manufacturer's installation instructions, the appropriate Windload Specification Option Code design drawing, the Jamb Connection Supplement, and the Track Supplement Chart must be available on the job site during installation. All fasteners must be corrosion resistant as specified in the IRC and the IBC.