TDI | Texas Department of Insurance

PO Box 12030 | Austin, TX 78711 | 800-578-4677 | tdi.texas.gov

Product Evaluation

GDR140 | 0422 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-140

Effective Date: April 1, 2022
Re-evaluation Date: January 2025

Product Name: Model 521 and 9920 Aluminum Sectional Doors, Impact Resistant

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

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

General Description:
Models 521 and 9920 aluminum sectional overhead doors are composed of rails and stiles of extruded aluminum alloy 6063-T6 and 0.250" polycarbonate glazing.

The door sections are connected with 12-gauge end hinges and 14-gauge center hinges.

The doors have a maximum section height of 30.5" and are 1-3/4" thick. The doors are available in widths up to 18'-2" and heights up to 30'-1".

Product Identification:
The door has a wind load label, applied by the installer, which includes the manufacturer's name (Overhead Door); the model numbers (521/9920); the drawing number; the design pressure rating; the test standards (ANSI/DASMA 108, ANSI/DASMA 115), and the missile level (Missile Level D).

Limitations:
This evaluation report includes impact resistant doors.

The doors are fully glazed (Aluminum Full View).

The doors have a maximum section height of 24".

The doors have a maximum height of 30'-1". Refer to the tables in this evaluation report for allowable door heights for specific doors.

The doors have a maximum door width of 18'-2".

The doors are reinforced with 16-gauge steel U-bars and 2" x 3" x 3/16" steel angles for horizontal reinforcement. The placement and installation of the horizontal reinforcement are shown on the design drawings.

Design Drawings: Specified in Table 1

Allowable Dimensions: Specified in Table 1.

Glazing: Glazing is 0.250" polycarbonate. The polycarbonate is grooved to a depth of 0.07" around the perimeter and held in place with double sided butyl tape. The polycarbonate is secured to the door using #8 x 1 screws with a maximum spacing of 6" on center along the perimeter of the opening.

Design Pressure and Height Limitations: Specified in Table 1.

Impact Protection: The doors listed in this evaluation report have been tested for windborne debris resistance. The door assemblies passed the equivalent of Missile Level D as specified in ASTM E 1996-14a.

Table 1 Impact Resistant Doors

Drawing Number	Maximum Door Width	Maximum Door Height	Glazing	Design Pressure (psf)
411368 Rev. G 10-23-2020 Sealed 11-10-2020	16'-2"	30'-1"	Yes	+48.00 -54.00
411487 Rev. C 10-23-2020 Sealed 11-17-2020	18'-2"	30'-1"	Yes	+43.00 -48.00

Installation Instructions:

Design Drawings: The doors must be installed as specified on the design drawings. The design drawings are provided with the door. The drawings are signed and sealed by J.C. Voelkel, PE. The seal date is specified in Table 1.

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 363342, Rev. P01, signed and sealed on February 27, 2020, by Dwayne J. Kornish, 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 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 concrete/masonry block walls must be as specified in the Jamb Connection Supplement, Drawing Number 363342, Rev. P01, signed and sealed on February 27, 2020, by Dwayne J. Kornish, 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 363342, Rev. P01, signed and sealed on February 27, 2020, by Dwayne J. Kornish, P.E.

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