

## Product Evaluation

GDR46 | 1022

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-46

**Effective Date:** October 1, 2022

**Re-evaluation Date:** October 2026

**Product Name:** Series 4400, 4500, and 6500 Steel, Sectional, Commercial Garage Doors, Non-impact Resistant

**Manufacturer:** doorLink Manufacturing, Inc.  
5700 NW 39<sup>th</sup> Street  
Riverside, MO 64150  
(816) 474-3900

### General Description:

doorLink steel garage doors are sectional overhead doors constructed from cold-formed galvanized steel with a primer and polyester finish. Series 4400 and 4500 have open-back sections, and Series 6500 doors consist of a front and back section filled with expanded insulation.

The garage doors panels are constructed of galvanized steel. The Series 4400 has a 0.022" pan thickness. The Series 4500 has a 0.019" pan thickness. The Series 6500 has a front pan that is 0.019" thick and back pan that is 0.014" thick.

The garage door description, dimensions, drawing number, and allowable design pressure rating are shown in Table 1.

**Product Identification:** A wind load label will be affixed to the door. The label includes the manufacturer's name (doorLink Manufacturing, Inc.); series/model number of the door; the allowable design pressure rating; the maximum size; the design drawing number; and the test standards (ANSI/DASMA 108).

**Limitations:**

**Maximum Section Height:** The maximum height of each door section must not exceed 24".

**Maximum Width:** The doors have a maximum width of 20'-2". Refer to Table 1 and Table 2 and the design drawings for the allowable door width dimensions.

**Maximum Height:** The doors have a maximum height of 24'. Refer to the design drawings for allowable door heights for specific doors.

**Horizontal Reinforcement:** The doors are reinforced with either 20-gauge, 3" steel struts or 4" x 2-1/2", 16-gauge, 50 ksi, C-Channels with 1-1/4" wide, 16-gauge, straps. The quantity, placement, and installation of the struts, straps, and C-channels are shown on the design drawings.

**Stiles:** The required number of stiles is specified on the design drawings.

**Design Drawings:** Specified in Table 1 and Table 2.

**Design Pressures:** Specified in Table 1 and Table 2.

**Glazing (Optional):** The design drawings and the tables in this evaluation report indicate if glazing is an option. The allowable glass construction, maximum daylight opening size, and the attachment of the glazing to the door panels is specified on the design drawings.

**Impact Resistance:** The door assemblies specified in Table 1 and Table 2 have not been tested for windborne debris resistance. Doors that contain glazing may not be installed in areas that require windborne debris protection unless the door is protected with an impact protective system.

**Installation:**

**Design Drawings:** The doors are to be installed as specified on the design drawings. The manufacturer will provide the design drawings with the door. The drawing numbers with revision number and revision date are specified in Table 1 and Table 2. Each page of the drawing is sealed by John E. Scates, P.E. and the first page is digitally signed and dated August 31, 2022, by John E. Scates, P.E.

**Attachment of Doors to Wall Framing:** Attach the door track brackets to either wood vertical jambs or directly to either a concrete substrate or steel wall framing. The wood vertical jambs must be minimum 2x6 Southern Yellow Pine dimension lumber. The drawings indicate how the

track brackets are secured to the wood vertical jambs. The drawings indicate how the track brackets are secured to the concrete substrate or steel framing. Minimum embedment and minimum edge distance requirements are specified.

Attachment of the vertical wood jambs to the structure is outside the scope of this evaluation report. The required size, type, and spacing of the fasteners required to secure the wood jambs to the structure will need to be design by an engineer.

**Note:** Keep the manufacturer's installation instructions and the appropriate design drawings available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.

**Table 1**  
**Series 4400 and 4500**

<b>Door Width</b>	<b>Model Numbers</b>	<b>Glass Option</b>	<b>Design Pressures (psf)</b>	<b>Drawing Number</b>
9'-2"	4400, 4500	Yes	+24.5 / -33.0	CO9A_24.5_33.0 Rev 01 7-11-22
9'-2"	4400, 5500	Yes	+33.0 / -37.0	CO9A_33.0_37.0 Rev 01 7-11-22
10'-2"	4400, 4500	Yes	+25.0 / -28.5	CO10A_25.0_28.5 Rev 01 7-11-22
10'-2"	4400, 4500	Yes	+33.0 / -37.0	CO10A_33.0_37.0 Rev 01 7-11-22
12'-2"	4400, 4500	Yes	+23.0 / -23.0	CO12A_23.0_23.0 Rev 01 7-11-22
12'-2"	4400, 4500	Yes	+28.0 / -31.0	CO12A_28.0_31.0 Rev 01 7-11-22
12'-2"	4400, 4500	Yes	+33.0 / -36.0	CO12A_33.0_36.0 Rev 01 7-11-22
14'-2"	4400, 4500	Yes	+20.6 / -22.9	CO14A_20.6_22.9 Rev 00 7-11-22
14'-2"	4400, 4500	Yes	+24.3 / -26.5	CO14A_24.3_26.5 Rev 00 7-11-22
16'-2"	4400,4500	Yes	+18.7 / -20.4	CO16A_18.7_20.4 Rev 00 7-11-22
16'-2"	4400, 4500	Yes	+31.5 / -35.5	CO16A_31.5_35.5 Rev 01 7-11-22
18'-2"	4400, 4500	Yes	+24.9 / -28.1	CO18A_24.9_28.1 Rev 00 7-11-22
20'-2"	4400, 4500	Yes	+20.2 / -22.8	CO20A_20.2_22.8 Rev 00 7-11-22

**Table 2**  
**Series 6500**

<b>Door Width</b>	<b>Model Numbers</b>	<b>Glass Option</b>	<b>Design Pressures (psf)</b>	<b>Drawing Number</b>
9'-2"	6500	Yes	+33.0 / -37.0	CS9A_33.0_37.0 Rev 01 7-11-22
10'-2"	6500	Yes	+28.0 / -32.0	CS10A_28.0_32.0 Rev 01 7-11-22
10'-2"	6500	Yes	+33.0 / -37.0	CS10A_33.0_37.0 Rev 01 7-11-22
12'-2"	6500	Yes	+28.0 / -31.0	CS12A_28.0_31.0 Rev 01 7-11-22
12'-2"	6500	Yes	+33.0 / -36.0	CS12A_33.0_36.0 Rev 01 7-11-22
14'-2"	6500	Yes	+20.6 / -22.9	CS14A_20.6_22.9 Rev 00 7-11-22
14'-2"	6500	Yes	+24.3 / -26.5	CS14A_24.3_26.5 Rev 00 7-11-22
16'-2"	6500	Yes	+18.7 / -20.4	CS16A_18.7_20.4 Rev 00 7-11-22
16'-2"	6500	Yes	+27.0 / -30.0	CS16A_27.0_30.0 Rev 01 7-11-22
18'-2"	6500	Yes	+21.4 / -23.8	CS18A_21.4_23.8 Rev 00 7-11-22
20'-2"	6500	Yes	+17.3 / -19.3	CS20A_17.3_19.3 Rev 00 7-11-22