

Product Evaluation

GDR85 | 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-85

Effective Date: April 1, 2022

Re-evaluation Date: April 2026

Product Name: Models 53xx, 54xx, 55xx, 56xx, 57xx, 58xx Steel Residential Sectional Garage Doors, Impact Resistant

Manufacturer: C.H.I. Overhead Doors
1485 Sunrise Drive
Arthur, IL 61911
(800) 677-2650

General Description:

Model 53xx, 54xx, 55xx, 56xx, 57xx, and 58xx doors are residential sectional garage doors constructed from galvanized steel with or without various decorative overlay materials. The 53xx, 54xx, and 55xx doors are constructed from 27-gauge steel and insulated with expanded polystyrene insulation with or without various overlay materials. The 56xx, 57xx, and 58xx model doors are constructed from 27-gauge steel and insulated with poured in urethane insulation with or without various overly materials. The doors use a combination of 3" U-bars and/or 6" C-channels for horizontal reinforcement. Drawing number, design pressures, dimensions, and glazing dimensions are shown in Table 1.

Product Identification: A label will be affixed to the steel sectional overhead door. The label must include the manufacturer's name (CHI Overhead Doors); series/model number of door; the

allowable design pressure rating; the design drawing number; and the test standards (ANSI/DASMA 108, ANSI/DASMA 115). The installer will verify that the label is clearly marked indicating which door assembly is being installed, in addition to verifying that the design pressure rating is clearly marked.

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'. Refer to Table 1 and the design drawings for the allowable door width dimensions.

Maximum Height: The doors have a maximum height of 20'. Refer to the design drawings for allowable door heights for specific doors.

Design Drawings: Specified in Table 1.

Design Pressures: Specified in Table 1.

Glazing: Not permitted.

Impact Protection: These garage door assemblies have been tested for windborne debris resistance.

Installation Instructions:

Design Drawings: Install the doors as specified on the design drawings and other accompanying installation instructions. The design drawing must be provided with the door. The drawings are dated September 4, 2020. Each page of the design drawings is signed, sealed, and dated October 29, 2020, by John E. Scates, P.E.

Attachment of Doors to the Building: Doors are secured to the wall structure as specified in the Jamb Attachment details. The Jamb Attachment details include the following drawings:

BJA-101R8
BJA-102R7
BJA-103R8
BJA-104R8
BJA-105R7
BJA-105R5
BJA-106R5

Each drawing is dated March 26, 2020 and sealed by John E. Scates. Drawing BJA-101R8 is digitally signed and dated January 7, 2021.

Note: The conditions and construction of the building structure must comply with the specifications on the Jamb Attachment drawings to ensure that the fasteners/anchors will deliver their intended design performance. The building construction shown in the door and jamb attachment drawings are only illustrative to locate fasteners. The manufacturer does not design the building nor ensure that the building can carry the imposed loads from the door system.

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

Impact Resistant Doors

Design Drawings: Specified in Table 1.

Allowable Door Width: Specified in Table 1.

Design Pressures: Specified in Table 1.

Glazing: Glass is not permitted.

Louvers: Not permitted.

Table 1

Models 53xx, 54xx, 55xx, 56xx, 57xx, and 58xx Steel Residential Sectional Garage Doors

Door Width	Maximum Section Height	Horizontal Reinforcement	Design Pressure (psf)	Glazing Option	Drawing Number
8'-00"	24"	0.51" thick U-bars	+49.9 / -56.7	No	Z9i-10-04506
9'-00"			+49.7 / -56.7		
10'-00"			+44.7 / -51.5		
10'-00"	24"	0.51" thick U-bars	+49.9 / -56.7	No	Z10i-10-04506
12'-00"	24"	0.51" thick U-bars	+43.0 / -48.3	No	Z5i-20-04506
14'-00"			+43.0 / -48.3		
16'-00"			+42.1 / -46.9		
18'-00"			+34.5 / -38.4		
20'-00"			+27.9 / -31.1		
18'-00"	24"	0.51" thick U-bars and 0.073" Cee Strut w/straps	+41.3 / -46.0	No	Z7i-20-04506
20'-00"			+34.1 / -38.0		