

Product Evaluation

GDR105 | 1122

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-105

Effective Date: November 1, 2022

Re-evaluation Date: November 2026

Product Name: Series 690, 3000, 5000, Self-Storage and Commercial Overhead Coiling Doors,
Non-Impact Resistant

Manufacturer: DBCI
4645 Timber Ridge Road
Suite 250
Douglasville, GA 30135
(800) 542-0501

General Description:

All doors consist of a corrugated steel sheet curtain suspended from a drum roller. The sides of the curtain are constrained from lateral movement along their vertical edges by steel guides that are attached to the door jambs. This constraint provides resistance to lateral wind forces. The lateral wind forces are transferred from the curtain to the guides and then through the attachment elements to the door jamb.

Door curtains have a minimum thickness of 26-gauge and are made of ASTM A653 structural steel, Grade 80, pre-painted, galvanized steel with a full coat of primer and baked siliconized polyester finish coat. The corrugated sheets are interlocked mechanically to form the curtain. Lap splices are at approximately 20" on center vertically in the installed door. The corrugation height is approximately 5/8" and the corrugation pitch is 3.25".

The steel roll-up doors specified in this evaluation report consist of a curtain, door mounting brackets, guides, windlocks, and bottom bars. Details regarding the door components are specified on the design drawings.

This evaluation report includes the following doors:

System	Description	Maximum Width	Maximum Height
1	26 Gauge Series 690 Self-Storage Overhead Coiling Doors; Windlocks	10'-0"	12'-0"
2	26 Gauge Series 5000 Commercial Overhead Coiling Doors; Windlocks	20'-0"	20'-0"
3	26 Gauge Series 3000 Commercial Overhead Coiling Doors; Windlocks	16'-0"	20'-0"

Limitations:

System	Maximum Width	Maximum Height	Drawing	Design Pressure Rating (psf)
1	≤4'-0"	12'-0"	B-300-130-0001.01 Rev 5	+64.2, -75.0
	5'-0"			+55.0, -64.2
	6'-0"			+46.2, -53.9
	7'-0"			+39.8, -46.5
	8'-0"			+34.9, -40.8
	9'-0"			+31.2, -36.4
	10'-0"			+28.2, -32.9
2	≤10'-0"	20'-0"	B-5000-08-0001 Rev 2	+43.7, -50.0
	11'-0"			+39.9, -45.7
	12'-0"			+36.8, -42.1
	13'-0"			+34.1, -39.0
	14'-0"			+31.7, -36.3
	15'-0"			+29.7, -34.0
	16'-0"			+28.0, -32.0
	17'-0"			+25.4, -29.1
	18'-0"			+23.2, -26.6
	19'-0"			+21.3, -24.4
	20'-0"			+19.7, -22.6

Limitations (Continued):

System	Maximum Width	Maximum Height	Drawing	Design Pressure Rating (psf)
3	≤8'-0"	20'-0"	B-3000-14-0001 Rev 1	+40.8, -46.7
	9'-0"			+36.6, -41.9
	10'-0"			+33.2, -38.0
	11'-0"			+30.3, -34.7
	12'-0"			+28.0, -32.0
	13'-0"			+24.4, -27.9
	14'-0"			+21.5, -24.7
	15'-0"			+19.2, -22.0
	16'-0"			+17.3, -19.8

Product Identification:

System 1: A label will be affixed to the steel roll up door. The label includes the manufacturer's name (DBCI); the model number (Series 690); the allowable design pressure range for the doors; the design drawing number (300-130-0001 Rev 1); and the test standards (ASTM E 330-02)

System 2: A label will be affixed to the steel roll up door. The label includes the manufacturer's name (DBCI); the model number (Series 5000); the allowable design pressure range for the doors; the design drawing number (5000-08-0001); and the test standards (ASTM E 330-02)

System 3: A label will be affixed to the steel roll up door. The label includes the manufacturer's name (DBCI); the model number (Series 3000); the allowable design pressure range for the doors; the design drawing number (3000-14-0001); and the test standards (ASTM E 330; ANSI/DASMA 108)

Compliance: The doors comply with ASTM E 330-14 and ANSI/DASMA 108-17 as reference in the 2018 IRC and 2018 IBC.

Glazing: None

Impact Resistance: The doors listed in this evaluation report have not been tested for windborne debris resistance.

Drawings The doors must be installed in accordance with one of the following design drawings:

System 1: DBCI; "Series 690 Door Assembly;" Drawing No. B-300-130-0001.01; Rev 5; Sheet 1 and 2 of 2; revised August 3, 2022; sealed by John E. Scates, P.E., seal date September 1, 2022.

System 2: DBCI; "Series 5000 Door Assembly;" Drawing No. B-5000-08-0001; Rev 2; Sheet 1 and 2 of 2; revised August 3, 2022; sealed by John E. Scates, P.E., seal date September 1, 2022.

System 3: DBCI; "3000 Door Assembly;" Drawing No. B-3000-14-0001; Rev 1; Sheet 1 and 2 of 2; revised August 3, 2022; sealed by John E. Scates, P.E., seal date September 1, 2022.

The design drawings are provided with the door and must be available at the jobsite during the door installation and inspection.

Installation:

General Installation Requirements: Install the doors in accordance with the manufacturer's installation instructions, the approved drawings, and this product evaluation report.

Wall Construction: Mount the doors to the following types of wall construction:

- Cast-in-place concrete (minimum 2,500 psi)
- Grout-filled concrete block (minimum 2,500 psi grout)
- Steel Jambs, minimum 0.070" thickness

Refer to the design drawings for specific wall construction requirements.

Anchorage: Anchor the doors to the structure using steel guides and the steel door mounting brackets in accordance with the design drawings. Anchor type and anchor spacing must follow the mounting details on the design drawings. The design drawings specify the minimum embedment depths for all fasteners that penetrate into cast-in-place concrete or concrete block.

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