



Product Evaluation

GDR105 | 0815

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: August 1, 2015

Re-evaluation Date: August 2019

Product Name: Series 650, 690, 2400, 2500, 5000, K650, K690, K2400, K2500, K3000, K5000 Self-Storage and Commercial Overhead Coiling Doors, Non-Impact Resistant

Manufacturer: DBCI
4645 Timber Ridge Rd., 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 inches on center vertically in the installed door. The corrugation height is approximately 5/8 inches and the corrugation pitch is 3.25 inches. This evaluation report includes the following doors:

System	Description	Maximum Width	Maximum Height
1	26 Gauge Series 650/K650; Self-Storage Overhead Coiling Doors; No Windlocks	8'-8"	12'-0"
2	26 Gauge Series 690/K690; Self-Storage Overhead Coiling Doors; Windlocks	10'-0"	12'-0"
3	26 Gauge Series 2400/K2400; 2500/K2500; Commercial Overhead Coiling Doors; Windlocks	12'-0"	20'-0"
4	26 Gauge Series 5000/K5000; Commercial Overhead Coiling Doors; Windlocks	20'-0"	20'-0"
5	26 Gauge Series K3000; Commercial Overhead Coiling Doors; Windlocks	16'-0"	20'-0"

Product Identification: A label will be affixed to the overhead coiling door. The label shall include the manufacturer's name, product name, and the allowable design pressure rating. 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:

System	Maximum Width	Maximum Height	Drawing	Design Pressure Rating (psf)
1	≤3'-0"	12'-0"	B-400-005-074.02 Rev 1 & B-K650-14-0001	+35.3, -38.4
	4'-0"			+27.8, -30.2
	5'-0"			+22.8, -24.8
	6'-0"			+19.4, -21.1
	7'-0"			+16.8, -18.3
	8'-0"			+14.9, -16.2
	8'-8"			+13.9, -15.1
2	≤4'-0"	12'-0"	B-300-130-0001.01 Rev 4 & B-K690-14-0001	+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

Limitations (continued):

System	Maximum Width	Maximum Height	Drawing	Design Pressure Rating (psf)
3	≤3'-0"	20'-0"	B-2500-08-0001 Rev 1 & B-K2500-14-0001	+39.6, -46.2
	4'-0"			+31.1, -36.3
	5'-0"			+25.6, -29.9
	6'-0"			+21.7, -25.4
	7'-0"			+18.9, -22.1
	8'-0"			+16.7, -19.5
	9'-0"			+15.0, -17.5
	10'-0"			+13.6, -15.9
	11'-0"			+12.4, -14.5
	12'-0"			+11.5, -13.4
4	≤10'-0"	20'-0"	B-5000-08-0001 Rev 1 & B-K5000-08-0001	+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			
5	≤8'-0"	20'-0"	B-K3000-14-0001	+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

- **Glazing:** None
- **Impact Resistance:** The doors listed in this report do not satisfy TDI's criteria for protection from windborne debris. Protect the door assemblies with an impact protective system when installing the product in areas that require windborne debris protection.
- **Acceptance of Smaller Assemblies:** Door assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

Installation Instructions:

Design Drawings: The doors shall be installed as specified on the design drawings. The design drawings shall be provided with the door. Each page of the design drawings shall be signed, sealed, and dated May 21, 2015, by John Scates, P.E., with the exception of drawings B-2500-08-0001 Rev 1 and B-K2500-14-0001

which are signed, sealed, and dated June 25, 2015. The following information, as a minimum, shall be provided on the design drawings:

Drawing Number
Design Pressures Rating
Maximum Width and Maximum Height
Maximum Panel Size

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