



DO MORE, WITH LESS!

Introducing the DBC drywall bridging connector

Work smarter, not harder

Next in the line of innovative solutions for cold-formed steel construction is the Simpson Strong-Tie® DBC drywall bridging connector. Patent-pending design allows for 1 or 2 screw installation of the DBC, significantly reducing labor and material cost. The first and only connector load rated for ¾" u-channel, the DBC joins the SUBH and MSUBH as the only bridging connectors tested as a system, ensuring that published design capacities capture the influence of stud web depth and thickness.

FEATURES:

- Most applications require only a single screw
- Designed for ¾" u-channel to fit smaller web knockouts common to drywall studs
- Compatible with drywall stud depths of 3 5/8" and 6" with 1 ½" wide knockouts



DBC2.5
Patent Pending

MATERIAL: 33 mil (20 ga.) carbon steel

FINISH: Galvanized (G90)

CODES: Tested in accordance with ICC-ES AC261; refer to www.strongtie.com for latest loads and technical information.

ORDERING INFORMATION: DBC2.5-R200 (Bucket of 200)

07-14



FOR MORE INFORMATION CALL 1-888-926-1365
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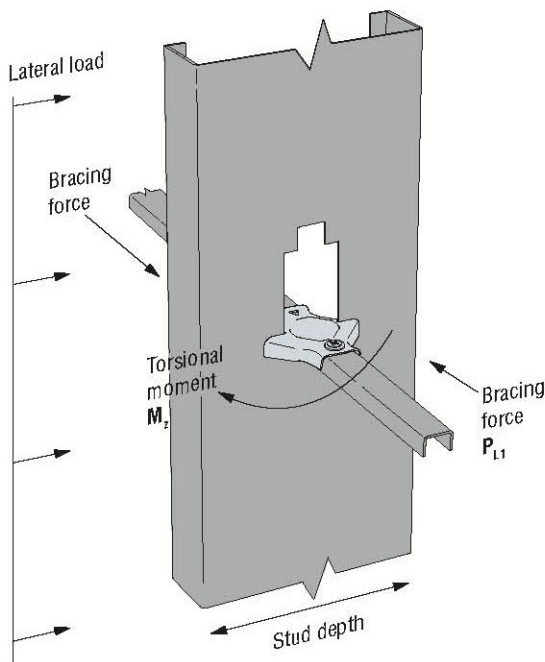
Technical Information

DBC Bridging Connector Strength

Model No.	Stud Depth (in.)	Stud Thickness & Yield Strength			Fastener		Laterally Loaded C-Stud Allowable Torsional Moment (in. - lbs.)					
		Mils	Gauge ⁵	Fy (ksi)			ASD	LRFD				
DBC2.5	3 3/8"	15	25 EQ	50	Min.	1 - #8	65	105				
		18	25	33								
		19	20 EQ	65								
		20	20 EQ	57								
		30	20 DW	33					Min.	1 - #8	95	150
									Max.	2 - #8	140	225
				Min.	1 - #8	95	150					
				Max.	2 - #8	140	225					
	6"	15	25 EQ	50	Min.	1 - #8	65	105				
		18	25	33								
		19	20 EQ	65								
		21	20 EQ	57								
		30	20 DW	33					Min.	1 - #8	95	150
									Max.	2 - #8	140	225
				Min.					1 - #8	95	150	
				Max.					2 - #8	140	225	

General Notes

1. Tabulated loads are based on #8 self-drilling screws with a nominal diameter of 0.164" and a washer diameter of 0.318". Additionally, the fasteners must have a minimum nominal shear strength, P_{SS} , of 1005 lbs. and a nominal tensile strength, P_{TS} , of 1965 lbs.
2. Min. fastener quantity and tabulated values – fill round hole (1 screw total); Max. fastener quantity and tabulated values – fill round and triangle holes (2 screws total).
3. Tabulated loads may not be increased for wind or seismic load.
4. Industry studies show that hardened fasteners can experience performance problems in wet or corrosive environments. Accordingly, use these products in dry and non-corrosive environments only.
5. EQ-equivalent, DW-drywall, STR-structural



Laterally loaded C-stud

Design Example

Given

- 600S125-18 (33 ksi) studs at 24" o.c., 10 ft. tall
Mid-point bracing (5' o.c.)
Distance from shear center to mid-plane of web, $m = 0.408$ in. (SFA Technical Guide Version 2012.101)
- Lateral load = 5 psf

Laterally-Loaded Stud Design

ASD Design load tributary to brace:

$$W = (5 \text{ psf})(2 \text{ ft.})(5 \text{ ft.}) = 50 \text{ lbs.}$$

Required flange force (AISI S100 Eq. D3.2.1-3):

$$P_{L1} = -P_{L2} = 1.5(m/d)W = (1.5)(0.408 \text{ in.}/6 \text{ in.})(50 \text{ lbs.}) = 5.1 \text{ lbs.}$$

Torsional moment:

$$M_z = P_{L1}d = -P_{L2}d = (5.1 \text{ lbs.})(6 \text{ in.}) = 30.6 \text{ in. - lbs.}$$

From Allowable Loads table above, for 6"-18 mil stud:

$$\Rightarrow \text{Select DBC2.5 with Min. fasteners (1 - \#8)}$$

$$\text{Allowable torsional moment} = 65 \text{ in. - lbs.} > 30.6 \text{ in. - lbs. OK}$$



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