



This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

Simpson Strong-Tie introduces the SBR and DBR spacer bracers for cold-formed steel construction. These spacer bracers reduce the installed cost of cold-formed steel stud walls by enabling faster stud layout while minimizing the need for bridging clips.

The DBR is used for interior walls to eliminate stud bow and allow for quicker drywall attachment, while the SBR is designed for structural exterior walls. Both products provide bracing along the length of the stud, and for head-of-wall slip conditions. The SBR and DBR also come with prepunched slots that eliminate the need to use bridging clips with on-module studs.

The SBR and DBR spacer bracers come with bracing load data based on assembly testing, thus mitigating risk for designers and maximizing confidence in design specs. In fact, the SBR and DBR are the only spacer bracers on the market with tabulated design values based on assembly tests.

Features:

- SBR and DBR have patent-pending precisionengineered prepunched slots strategically located to enable 12", 16" and 24" on-center stud spacing and can be used to space the studs without having to mark the top track for layout
- The SBR will accommodate 3%" up to 8" studs in thicknesses of 33 mil (20 ga.) through 68 mil (14 ga.)
- The DBR will accommodate 2½", 35%" and 6" studs in thicknesses of 15 mil (25 ga. EQ) through 33 mil (20 ga.)
- Prepunched holes in the SBR provide rapid screw installation when spacer-bracer splices are needed for axial load-bearing studs
- In off-layout or end-of run conditions, the hat-section profiles enable clip attachments to the stud with Simpson Strong-Tie® LSSC or RCA connectors

Installation:

- Spacer bracers are fed through the stud knockout at a 90° angle until studs align with spacer-bracer slots. With the slots engaging the stud web, the spacer-bracer is then rotated back to the flat position so that the slotted flanges are on the bottom.
- For off-layout or end-of-run studs where a spacerbracer slot does not engage a stud, manually snip the spacer-bracer flanges with a ½"-deep slot and secure the spacer bracer to the stud with Simpson Strong-Tie LSSC or RCA connectors. Use all specified fasteners.
- Wear gloves while handling and installing spacer bracers.

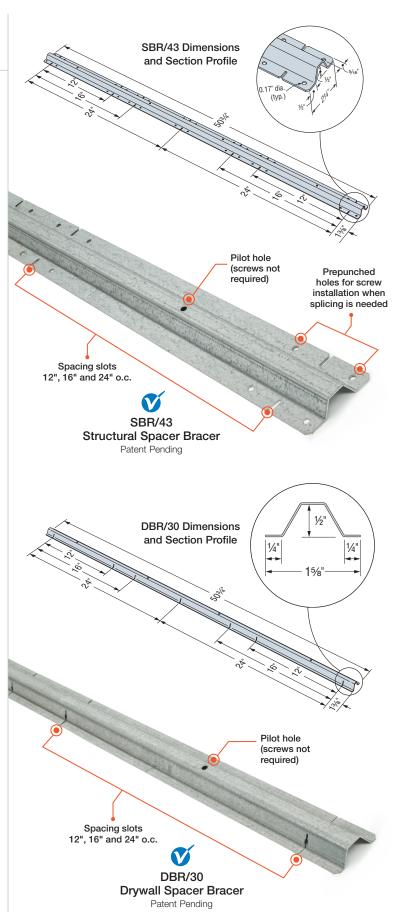
Material: SBR/43 — 43 mil (40 ksi);

DBR/30 — 27 mil (33 ksi) Finish: Galvanized (G90)

Codes: See p. 13 for Code Reference Key Chart

Ordering Information:

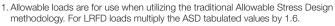
SBR/43-R680 (Pallet 680) SBR/43-R20 (Box of 20) DBR/30-R680 (Pallet 680) DBR/30-R20 (Box of 20)





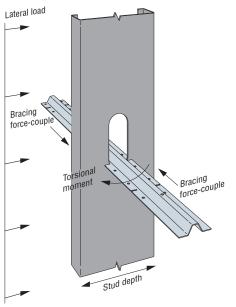
SBR and DBR Spacer Bracer — Connection Strength and Stiffness

Model No.	Stud Depth (in.)	Stud Thickness mil (ga.)	Allowable Torsional Moment (in./lb.)	Allowable Brace Strength (lb.)	Brace Stiffness (lb./in.)	Code Ref.
		33 (20)	235	390	845	
	35%	43 (18)	310	435	1,390	
	3%8	54 (16)	400	435	1,390	
		68 (14)	400	435	1,390	
		33 (20)	215	160	495	
CDD /40		43 (18)	310	330	765	
SBR/43	6	54 (16)	365	450	840	
		68 (14)	365	450	840	
	8	33 (20)	200	_	_	
		43 (18)	310	_	_	
		54 (16)	335	_	_	
		68 (14)	335	_	_	_
		15 (25 EQ)	55	_	_	
		18 (25)	55	_	_	
	2½	19 (20 EQ)	60	_	_	
		30 (20 DW)	85	_	_	
DBR/30		33 (20 STR)	90	_	_	
טפאסט		15 (25 EQ)	55	_	_	
		18 (25)	55	_	_	
	6	19 (20 EQ)	60	_	_	
		30 (20 DW)	85	_	_	
		33 (20 STR)	90	_	_	

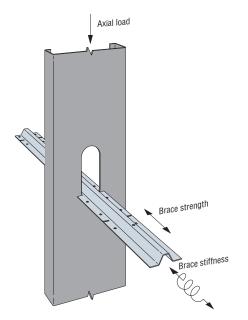


Tabulated Allowable Brace Strengths are based on ultimate test load divided by a safety factor. Serviceability limit is not considered, as brace stiffness requirements are given in section C2.3 of AISI S100-16.

- 3. Tabulated Brace Stiffness values apply to both ASD and LRFD designs.
- 4. Allowable loads consider bridging connection only. It is the responsibility of the designer to verify the strength and serviceability of the framing members.
- 5. EQ equivalent, DW drywall, STR structural.



Laterally Loaded C-Stud with SBR Spacer Bracer (DBR spacer bracer similar)



Axially Loaded C-Stud with SBR Spacer Bracer



SBR and DBR Gross Properties

Model	Design	Fv	Area ²	l _x ⁴	S _X ³	R _X	l _v ⁴	S _v ³	R _v	Torsional Properties					
No.	Thickness (in.)	(ksi)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	Jx1,000 ⁴ (in.)	C _W ⁶ (in.)	Y ₀ (in.)	m (in.)	R _o (in.)	β
SBR/43	0.0468	40	0.126	0.0047	0.1458	0.1936	0.0436	0.0400	0.5891	0.0916	5.56E-04	0.283	0.017	0.681	0.828
DBR/30	0.0289	33	0.060	0.0023	0.0082	0.1936	0.0109	0.0141	0.4259	0.0167	7.05E-05	0.346	0.087	0.582	0.647

SBR and DBR Net Properties

Model	Area ²	l _x ⁴	S _x ³	R _X	lv ⁴	S _V ³	Rv			Properties			
No.	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	Jx1,000 ⁴ (in.)	Cw ⁶ (in.)	Y ₀ (in.)	m (in.)	R ₀ (in.)	β
SBR/43	0.085	0.0028	0.0097	0.1816	0.0120	0.0184	0.3765	0.0617	3.43E-05	0.355	0.141	0.548	0.581
DBR/30	0.022	0.0001	0.0004	0.0479	0.0008	0.0027	0.1944	0.0061	1.09E-06	0.086	0.051	0.218	0.844

SBR and DBR Allowable Member Strengths

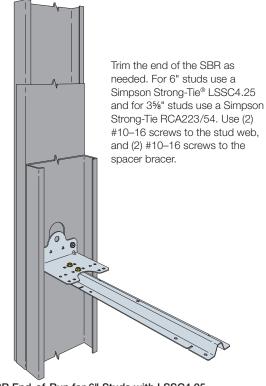
	Model No.	M _a (F _y) (inlb.)	Ma (12" o.c.) (inlb.)	Ma (16" o.c.) (inlb.)	Ma (24" o.c.) (inlb.)	Pa (12" o.c.) (lb.)	Pa (16" o.c.) (lb.)	Pa (24" o.c.) (lb.)	
	SBR/43	369	369	369	360	945	904	618	
1	DBR/30	44	40	38	32	_	_	_	

^{1.} Net section properties are based a section that excludes all material that is interrupted by the slots.

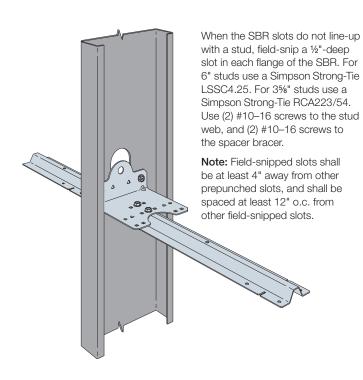
^{2.} Member strengths are based on DSM Analysis (non-prequalified section, $\Omega = 2.0$).

 $^{3.\,}C_b$ = 1.67 has been applied to M_a to account for a triangular moment diagram with zero end moment.

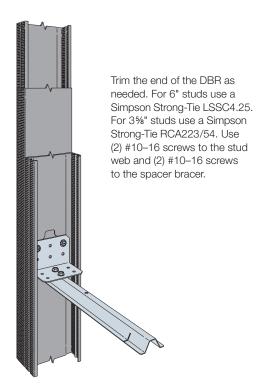




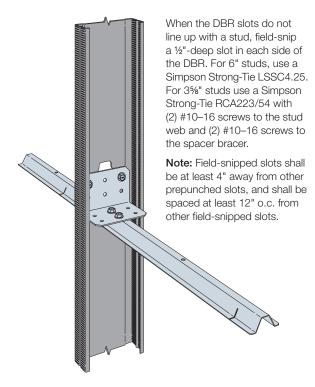
SBR End-of-Run for 6" Studs with LSSC4.25 (3%" studs with RCA 223/54 similar)



SBR Off-Module for 6" Studs with LSSC4.25 (3%" studs with RCA 223/54 similar)

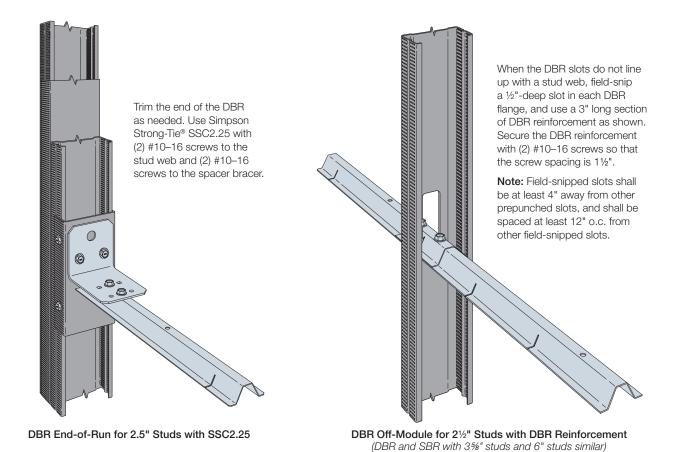


DBR End-of-Run for 3%" Studs with RCA223/54 (6" studs with LSSC4.25 similar)



DBR Off-Module for 3%" Studs with RCA223/54 (6" studs with LSSC4.25 similar)





Use #10–16 screws as needed to transfer accumulated load for multiple axially loaded studs. (fastener quantity by designer)

Typical SBR Splice for Axially Loaded Studs

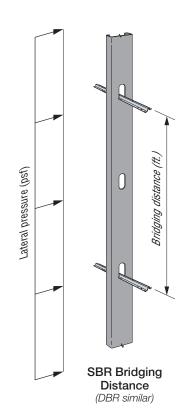
C-CF-2023 @ 2023 SIMPSON STRONG-TIE COMPANY INC.

SBR/DBR Spacer Bracers

Strong-Tie

SBR/43 Maximum Bridging Distance (ft.)

Stud		Stud	tud Lateral Stud Pressure (psf)									
Spacing (in.)	Stud Section	Thickness mil (ga.)	5	10	15	20	25	30	35	40	45	50
362\$16		33 (20)	8	8	8	8	7	6	5	4	4	_
		43 (18)	8	8	8	8	8	8	7	6	5	5
	3625162	54 (16)	8	8	8	8	8	8	8	7	7	6
		68 (14)	8	8	8	8	8	8	8	8	7	6
		33 (20)	8	8	8	7	6	5	4	_	_	_
	2000000	43 (18)	8	8	8	8	8	6	5	5	4	4
	362S200	54 (16)	8	8	8	8	8	8	6	6	5	4
10		68 (14)	8	8	8	8	8	8	6	6	5	4
12		33 (20)	8	8	8	8	8	7	6	5	4	4
	0000100	43 (18)	8	8	8	8	8	8	8	7	6	6
	600S162	54 (16)	8	8	8	8	8	8	8	8	8	7
		68 (14)	8	8	8	8	8	8	8	8	8	7
		33 (20)	8	8	8	7	6	5	4	_	_	_
	6000000	43 (18)	8	8	8	8	8	7	6	5	5	4
	600S200	54 (16)	8	8	8	8	8	8	7	6	6	5
		68 (14)	8	8	8	8	8	8	7	6	6	5
		33 (20)	8	8	8	7	5	4	4	_	_	_
	0000100	43 (18)	8	8	8	8	7	6	5	4	4	_
	362S162	54 (16)	8	8	8	8	8	7	6	5	5	4
		68 (14)	8	8	8	8	8	8	6	6	5	4
	362S200	33 (20)	8	8	7	5	4	_	_	_	_	_
		43 (18)	8	8	8	7	6	5	4	_	_	_
		54 (16)	8	8	8	8	7	6	5	4	4	_
16		68 (14)	8	8	8	8	7	6	5	4	4	_
10		33 (20)	8	8	8	7	6	5	4	_	_	_
	600S162	43 (18)	8	8	8	8	8	7	6	5	5	4
	0003102	54 (16)	8	8	8	8	8	8	7	6	6	5
		68 (14)	8	8	8	8	8	8	7	6	6	5
		33 (20)	8	8	7	5	4	_	_	_	_	_
	600S200	43 (18)	8	8	8	8	6	5	4	4	_	_
	0003200	54 (16)	8	8	8	8	8	6	5	5	4	4
		68 (14)	8	8	8	8	8	6	5	5	4	4
		33 (20)	8	8	6	4	_	_	_	_	_	_
	362S162	43 (18)	8	8	8	6	5	4	_	_	_	_
	3023102	54 (16)	8	8	8	7	6	5	4	_	_	_
		68 (14)	8	8	8	7	6	5	4	_	_	_
		33 (20)	8	7	5	_		_	_	_	_	
	362S200	43 (18)	8	8	6	5	4	_				_
	3020200	54 (16)	8	8	7	5	4	_		_		_
24		68 (14)	8	8	7	5	4	_	_	_	_	_
∠ -T		33 (20)	8	8	7	5	4	_	_	_	_	_
	600S162	43 (18)	8	8	8	7	6	5	4	_		
	0000102	54 (16)	8	8	8	8	7	6	5	4	4	_
		68 (14)	8	8	8	8	7	6	5	4	4	
		33 (20)	8	7	5	_	_	_	_	_	_	_
	600S200	43 (18)	8	8	7	5	4	_	_	_	—	_
	0000200	54 (16)	8	8	8	6	5	4	_	_	_	
		68 (14)	8	8	8	6	5	4	_	_	_	_

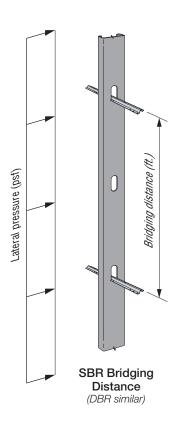


- 1. Tabulated solutions are for ASD lateral pressure. Contact Simpson Strong-Tie for LRFD solutions.
- 2. Lateral pressures shall be determined based on the load combinations of the applicable building code. For designs in accordance with the 2009 IBC and earlier, wind pressures are at the working stress level and may be used directly. For designs in accordance with the 2012, 2015, 2018 and 2021 IBC, wind pressures are at the strength level and must be multiplied by 0.6 for ASD load combinations.
- 3. Tabulated values are based on the minimum of the tested connection strength and the calculated SBR/DBR member strength. Studs must be checked separately for unbraced length.
- 4. For 8"-studs tabulated values, reference strongtie.com.

SIMPSON Strong-Tie

DBR/30 Maximum Bridging Distance (ft.)

Stud Spacing (in.)	Stud Section	Stud Thickness mil (ga.)	Lateral Stud Pressure (psf)			
, ,		,	5	10		
		15 (25 EQ)	8	5		
		18 (25)	8	5		
	362S125	19 (20 EQ)	8	5		
		30 (20 DW)	8	5		
12		33 (20 STR)	8	5		
12		15 (25 EQ)	8	6		
		18 (25)	8	6		
	600S125	19 (20 EQ)	8	6		
		30 (20 DW)	8	6		
		33 (20 STR)	8	6		
		15 (25 EQ)	7	_		
	362\$125	18 (25)	7	_		
		19 (20 EQ)	7	_		
		30 (20 DW)	7	_		
40		33 (20 STR)	7	_		
16		15 (25 EQ)	8	4		
		18 (25)	8	4		
	600S125	19 (20 EQ)	8	4		
		30 (20 DW)	8	4		
		33 (20 STR)	8	4		
		15 (25 EQ)	4	_		
		18 (25)	4	_		
	362\$125	19 (20 EQ)	4	_		
		30 (20 DW)	4	_		
0.4		33 (20 STR)	4	_		
24		15 (25 EQ)	4	_		
		18 (25)	4	_		
	600S125	19 (20 EQ)	4	_		
		30 (20 DW)	5	_		
		33 (20 STR)	5	_		



- Tabulated solutions are for ASD lateral pressure. Contact Simpson Strong-Tie for LRFD solutions.
- 2. Lateral pressures shall be determined based on the load combinations of the applicable building code. For designs in accordance with the 2009 IBC and earlier, wind pressures are at the working stress level and may be used directly. For designs in accordance with the 2012 and later IBC, wind pressures are at the strength level and must be multiplied by 0.6 for ASD load combinations.
- 3. Tabulated values are based on the minimum of the tested connection strength and the calculated SBR/DBR member strength. Studs must be checked separately for unbraced length.