

CBS/CBSQ

Column Bases



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.

The CBS column base installs with bolts and provides tested capacity. The CBSQ uses Strong-Drive® SDS Heavy-Duty Connector screws (included), which allow for fast installation, reduced reveal and high capacity, and provides a greater net section area of the column compared to bolts. Both CBS and CBSQ provide 1" standoff to meet code requirements for structural posts installed in basements or exposed to weather or water splash.

Material: See table

Finish: Galvanized; available in HDG

Installation:

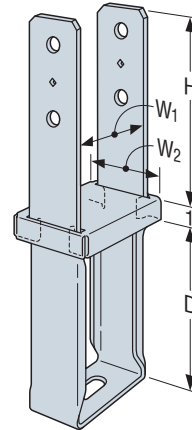
- Use all specified fasteners; see General Notes.
- For CBS, install with two bolts.
- For CBSQ, install ¼" x 2" Strong-Drive SDS Heavy-Duty Connector screws, which are provided with the column base. (Lag screws will not achieve the same load.)
- Install CBS/CBSQ with bottom of standoff flush to top of concrete.
- For full loads, a minimum of 3" side cover shall be provided.
- Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non-top-supported installations (such as fences or unbraced carports).

Ordering:

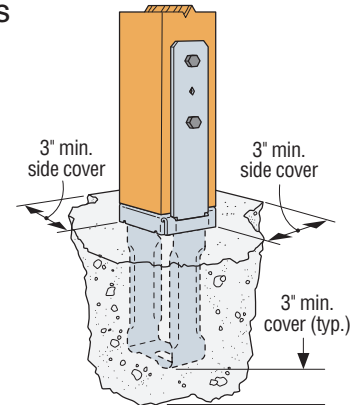
- To order the CBSQ with screws, specify CBSQ-SDS2
- To order the CBSQ without screws, specify CBSQ

Codes: See p. 13 for Code Reference Key Chart

These products are available with additional corrosion protection. For more information, see p. 16.



CBS



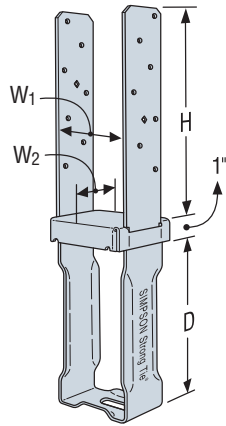
Typical CBS Installation

Model No.	Nominal Column Size	Material		Dimensions (in.)				Bolts		DF/SP Allowable Loads			Code Ref.
		Base (ga.)	Strap (ga. x Width)	W ₁	W ₂	D	H	Qty.	Dia. (in.)	Uncracked Uplift	Cracked Uplift	Download	
Wind and Seismic Design Category A&B													
CBS44	4x4	12	10 ga. x 2¼	3⅞	3½	7⅞	8¾	2	⅝	5,390	4,650	10,975	—
CBS46	4x6	12	10 ga. x 3	3⅞	5⅞	7⅞	8⅞	2	⅝	5,390	4,650	14,420	
CBS66	6x6	12	10 ga. x 3	5½	5½	6⅞	8¾	2	⅝	4,375	3,060	14,420	
Seismic Design Category C-F													
CBS44	4x4	12	10 ga. x 2¼	3⅞	3½	7⅞	8¾	2	⅝	5,390	4,070	10,975	—
CBS46	4x6	12	10 ga. x 3	3⅞	5⅞	7⅞	8⅞	2	⅝	5,390	4,070	14,420	
CBS66	6x6	12	10 ga. x 3	5½	5½	6⅞	8¾	2	⅝	3,830	2,680	14,420	

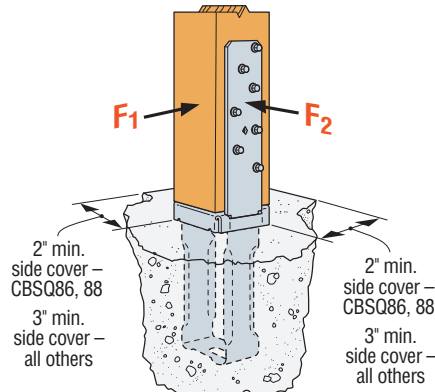
1. Loads may not be increased for duration of load.
2. For higher downloads, pack grout solid under 1" standoff plate before installation. Base download on column or concrete, according to the code.
3. Concrete shall have a minimum compressive strength of $f'_c = 2,500$ psi.
4. Multiply seismic and wind ASD uplift and lateral load values by 1.43 or 1.67, respectively, to obtain LRFD capacities.
5. In accordance with IBC®, Section 1613.1, detached one- and two-family dwellings in Seismic Design Category (SDC) C may use "Wind and SDC A&B" allowable loads.
6. Downloads shall be reduced where limited by capacity of the post.
7. Designer is responsible for concrete design.
8. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers known as the narrow face. Values in the tables reflect installation into the wide face. See technical bulletin T-C-SCLCLM at strongtie.com for load reductions resulting from narrow-face installations.
9. All references to bolts are for structural-quality through bolts (not lag screws or carriage bolts) equal to or better than ASTM A307, Grade A.

CBSQ

Column Bases (cont.)



CBSQ-SDS2



Typical CBSQ-SDS2 Installation

These products are available with additional corrosion protection. For more information, see p. 16.

For stainless-steel fasteners, see p. 23.

Model No.	Nominal Column Size	Material		Dimensions (in.)				Fasteners (in.)	DF/SP Allowable Loads			Code Ref.
		Base (ga.)	Strap (ga. x Width)	W ₁	W ₂	D	H		Uncracked	Cracked	Download	
									Uplift	Uplift		
Wind and Seismic Design Category A&B												
SS CBSQ44-SDS2	4x4	12	10 ga. x 2 1/4	3 9/16	3 1/2	7 1/8	8 3/8	(14) 1/4 x 2 SDS	5,390	4,650	10,975	IBC®, FL, LA
SS CBSQ46-SDS2	4x6	12	10 ga. x 3	3 9/16	5 9/16	7 13/16	8 11/16	(14) 1/4 x 2 SDS	5,390	4,650	14,420	
SS CBSQ66-SDS2	6x6	12	10 ga. x 3	5 1/2	5 1/2	6 7/8	8 3/4	(14) 1/4 x 2 SDS	4,375	3,060	14,420	
CBSQ86-SDS2	6x8	12	8 ga. x 3	7 1/2	5 3/8	6 1/8	8 11/16	(12) 1/4 x 2 SDS	3,815	2,670	20,915	
CBSQ88-SDS2	8x8	12	8 ga. x 3	7 1/2	7 3/8	6 1/8	8 11/16	(12) 1/4 x 2 SDS	3,815	2,670	22,225	
Seismic Design Category C-F												
SS CBSQ44-SDS2	4x4	12	10 ga. x 2 1/4	3 9/16	3 1/2	7 1/8	8 3/8	(14) 1/4 x 2 SDS	5,390	4,070	10,975	IBC, FL, LA
SS CBSQ46-SDS2	4x6	12	10 ga. x 3	3 9/16	5 9/16	7 13/16	8 11/16	(14) 1/4 x 2 SDS	5,390	4,070	14,420	
SS CBSQ66-SDS2	6x6	12	10 ga. x 3	5 1/2	5 1/2	6 7/8	8 3/4	(14) 1/4 x 2 SDS	3,830	2,680	14,420	
CBSQ86-SDS2	6x8	12	8 ga. x 3	7 1/2	5 3/8	6 1/8	8 11/16	(12) 1/4 x 2 SDS	3,340	2,335	20,915	
CBSQ88-SDS2	8x8	12	8 ga. x 3	7 1/2	7 3/8	6 1/8	8 11/16	(12) 1/4 x 2 SDS	3,340	2,335	22,225	

1. Loads may not be increased for duration of load.
2. For higher downloads, pack grout solid under 1" standoff plate before installation. Base download on column or concrete, according to the code.
3. Concrete shall have a minimum compressive strength of $f'_c = 2,500$ psi.
4. Multiply seismic and wind ASD uplift and lateral load values by 1.43 or 1.67, respectively, to obtain LFRD capacities.
5. For lateral loads for all CBSQ models: F_1 allowable = 485 lb., F_2 allowable = 1,270 lb. Minimum 3" side cover required.
6. In accordance with IBC, Section 1613.1, detached one- and two-family dwellings in Seismic Design Category (SDC) C may use "Wind and SDC A&B" allowable loads.
7. Downloads shall be reduced where limited by capacity of the post.
8. Designer is responsible for concrete design.
9. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers known as the narrow face. Values in the tables reflect installation into the wide face. See technical bulletin T-C-SCLCLM at strongtie.com for load reductions resulting from narrow-face installations.
10. **Fasteners:** SDS screws are Simpson Strong-Tie Strong-Drive® SDS Heavy-Duty Connector screws. See pp. 23–24 for fastener information.