

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 **CBST** column base installs with bolts and provides tested capacity. The **CBSTQ** and **CBSQ** both use 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. All models provide 1" standoff to meet code requirements for structural posts installed in basements or exposed to weather or water splash.

Material: See table

Finish: CBSQ — galvanized; CBST, CBSTQ — ZMAX® coating; available in HDG; CBSQ44SS, CBSQ46SS, CBSQ66SS — stainless steel. For stainless steel allowable loads, see strongtie.com.

Installation:

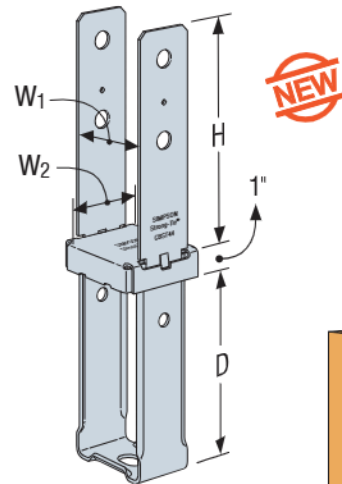
- Use all specified fasteners; see General Notes.
- For **CBST**, install with two bolts.
- For **CBSTQ** and **CBSQ**, install ¼" x 2" Strong-Drive SDS Heavy-Duty Connector screws, which are provided with the column base. (Lag screws will not achieve the same load.)
- Install with bottom of standoff 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 (CBSQ and CBSTQ only):

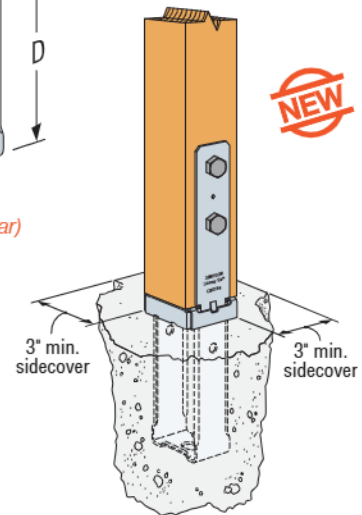
- To order with screws, specify CBSQ-SDS2 or CBSTQ-SDS2
- To order without screws, specify CBSQ or CBSTQ

Codes: See p. 12 for Code Reference Key Chart

Web Applications: Visit app.strongtie.com/pfd to access our Post-to-Foundation Designer web application.



CBST
(CBSTQ similar)



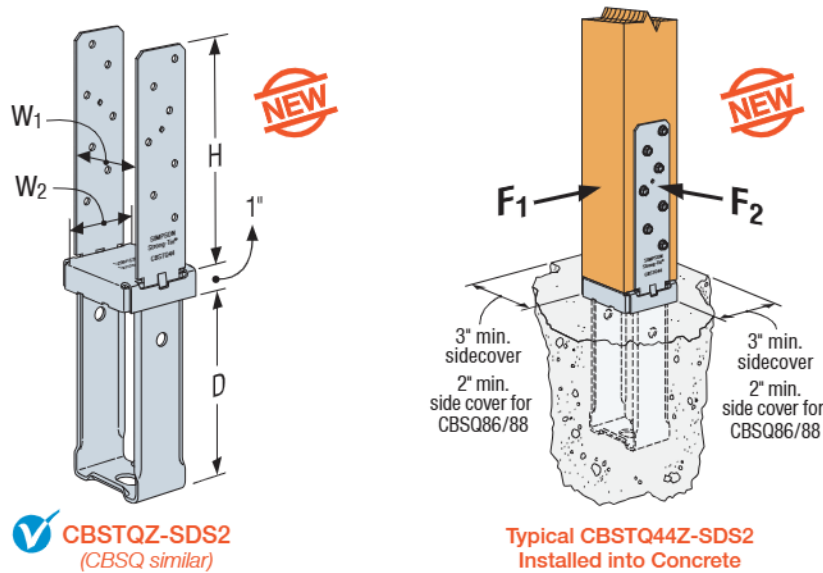
Typical CBST44Z
Installed into Concrete

These products are available with additional corrosion protection. For more information, see pp. 13–19.

	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.)	Uplift		Download	
											Uncracked	Cracked		
	Wind and Seismic Design Category A&B													
	CBST44Z	4x4	12	10 ga. x 2¼"	3⅝	3½	7⅝	8¾	2	⅝	5,390	4,650	12,060	IBC, FL, LA
	CBST46Z	4x6	12	10 ga. x 3"	3⅝	5⅝	7⅞⅝	8⅞⅝	2	⅝	5,390	4,650	16,425	
	CBST66Z	6x6	12	10 ga. x 3"	5½	5½	6⅝	8¾	2	⅝	4,375	3,060	19,290	
	Seismic Design Category C–F													
	CBST44Z	4x4	12	10 ga. x 2¼"	3⅝	3½	7⅝	8¾	2	⅝	5,390	4,070	12,060	IBC, FL, LA
	CBST46Z	4x6	12	10 ga. x 3"	3⅝	5⅝	7⅞⅝	8⅞⅝	2	⅝	5,390	4,070	16,425	
	CBST66Z	6x6	12	10 ga. x 3"	5½	5½	6⅝	8¾	2	⅝	3,830	2,680	19,290	

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. The values in the tables reflect installations into the wide face. For installations into the narrow face, published downloads are applicable and uplift load reduction factors must be applied as follows: 1.00 for LSL, 0.90 for PSL, and 0.90 for LVL.
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.

Column Bases (cont.)



These products are available with additional corrosion protection. For more information, see pp. 13–19.

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		Uplift		Download	
									Uncracked	Cracked		
Wind and Seismic Design Category A&B												
CBSTQ44Z-SDS2	4x4	12	10 ga. x 2 ¼"	3⅝	3½	7⅛	8⅝	(14) ¼ x 2 SDS	5,390	4,650	12,840	IBC, FL, LA
CBSTQ46Z-SDS2	4x6	12	10 ga. x 3"	3⅝	5⅝	7⅞	8⅞	(14) ¼ x 2 SDS	5,390	4,650	16,850	
CBSQT66Z-SDS2	6x6	12	10 ga. x 3"	5½	5½	6⅞	8¾	(14) ¼ x 2 SDS	4,375	3,060	19,335	
CBSQ86-SDS2	6x8	12	7 ga. x 3"	7½	5⅝	6⅝	8⅞	(12) ¼ x 2 SDS	3,815	2,670	20,915	
CBSQ88-SDS2	8x8	12	7 ga. x 3"	7½	7⅝	6⅝	8⅞	(12) ¼ x 2 SDS	3,815	2,670	22,225	
Seismic Design Category C–F												
CBSTQ44Z-SDS2	4x4	12	10 ga. x 2 ¼"	3⅝	3½	7⅛	8⅝	(14) ¼ x 2 SDS	5,390	4,070	12,840	IBC, FL, LA
CBSTQ46Z-SDS2	4x6	12	10 ga. x 3"	3⅝	5⅝	7⅞	8⅞	(14) ¼ x 2 SDS	5,390	4,070	16,850	
CBSTQ66Z-SDS2	6x6	12	10 ga. x 3"	5½	5½	6⅞	8¾	(14) ¼ x 2 SDS	3,830	2,680	19,335	
CBSQ86-SDS2	6x8	12	7 ga. x 3"	7½	5⅝	6⅝	8⅞	(12) ¼ x 2 SDS	3,340	2,335	20,915	
CBSQ88-SDS2	8x8	12	7 ga. x 3"	7½	7⅝	6⅝	8⅞	(12) ¼ 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 LRFD capacities.
5. Lateral loads for all CBSTQ 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. The values in the tables reflect installations into the wide face. For installations into the narrow face, published download and lateral loads are applicable and uplift load reduction factors must be applied as follows: 1.00 for LSL, 0.90 for PSL, and 0.90 for LVL.
10. Fasteners: SDS screws are Simpson Strong-Tie Strong-Drive® SDS Heavy-Duty Connector screws. See strongtie.com for fastener information.