CC/ECC/ECCU



Column Caps

Column caps provide a strong connection for column-beam combinations.

Material: CC3¼, CC44, CC46, CC48, CC4.62, CC64, CC66, CC68, CC6-7½, ECC3½, ECC44, ECC46, ECC48, ECC4.62, ECC64, ECC66, ECC68, ECC6-7½ — 7 gauge; all others — 3 gauge

Finish: Simpson Strong-Tie gray paint. Some products available in HDG, stainless steel or black powder coat; CCO, ECCO — no coating.

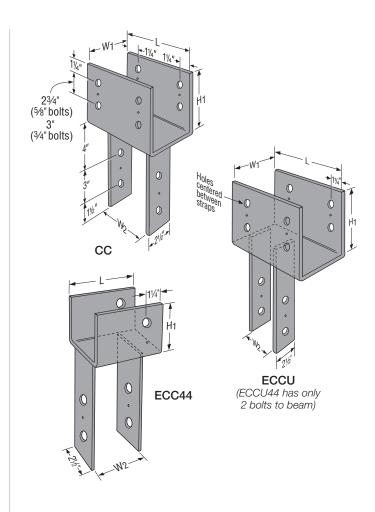
Installation:

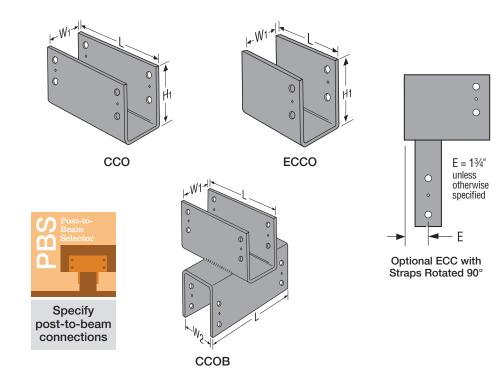
- Use all specified fasteners; see General Notes
- Bolt holes shall be a minimum of ½" to a maximum of ½" larger than the bolt diameter (per 2015 NDS, section 12.1.3.2)
- Contact engineered wood manufacturers for connections that are not through the wide face

Options:

- Straps may be rotated 90° where W₁ ≥ W₂ (see illustration) and for CC5¼-6.
- For special, custom or rough-cut lumber sizes, provide dimensions. An optional W₂ dimension may be specified. (The W₂ dimension on straps rotated 90° is limited by the W₁ dimension.)
- CCO/ECCO Column cap only (no straps) may be ordered for field-welding to pipe or other columns. CCO/ECCO dimensions are the same as CC/ECC. Weld by designer.
- CCOB Any two CCOs may be specified for back-to-back welding to create a cross beam connector. Use the table loads; the load is no greater than the lesser element employed.

Codes: See p. 11 for Code Reference Key Chart





CC/ECC/ECCU

SIMPSON Strong-Tie

Column Caps (cont.)

These products are available with additional corrosion protection. For more information, see p. 14.

SS For stainless-steel fasteners, see p. 21.

	Model No.	Beam Width (in.)	Dimensions (in.)						Bolts					Allowable Loads (DF/SP)						
			W ₁	W ₂		L		H ₁	Size	Beam				CC		ECC E		CU	Code	CCO/ECCO
					00	500						ECCU	Post	Uplift	Down	Down	Uplift	Down	Ref.	Model No. (No Legs)
					CC	ECC	ECCU			CC	ECC			(160)	(100)	(100)	(160) (100)	(100)		
SS	CC3 1/4-4	31/8	31/4	3%	11	7½	91/2	6½	5/8	4	2	4	2	3,150	16,980	6,835	3,150	6,835	IBC, FL, LA	CCO3 1/4 ECCO3 1/4
	CC3 1/4-6	31/8	31/4	5½	11	7½	9½	6½	5/8	4	2	4	2	3,150	21,485	10,740	3,150	10,740		
SS	CC44	3½	3%	3%	7	5½	6½	4	5/8	2	1	2	2	1,850	19,020	7,655	1,850	7,655		CCO4 ECCO4
	CC46	3½	3%	5½	11	8½	9½	6½	5/8	4	2	4	2	3,530	24,065	12,030	3,530	12,030		CCO4/6 ECCO4/6
	CC48	31/2	3%	7½	11	81/2	91/2	6½	5/8	4	2	4	2	3,530	24,065	16,405	3,530	16,405		
	CC4.62-3.62	41/2	4%	3%	11	8½	9½	6½	5/8	4	2	4	2	4,535	23,390	9,845	4,535	9,845		CC04.62 ECC04.62
	CC4.62-4.62	41/2	4%	4%	11	8½	9½	6½	5/8	4	2	4	2	4,535	30,070	12,655	4,535	12,655		
	CC4.62-5.50	41/2	4%	5½	11	8½	9½	6½	5/8	4	2	4	2	4,535	30,940	15,470	4,535	15,470		
	CC5 1/4-4	51/8	51/4	3%	13	9½	10½	8	3/4	4	2	4	2	6,300	26,635	11,210	6,300	11,210		CC05 1/4 ECC05 1/4
	CC5 1/4-6	51/8	51/4	5½	13	9½	10½	8	3/4	4	2	4	2	6,500	28,190	17,615	6,500	17,615		
	CC5 1/4-8	51/8	51/4	7½	13	9½	10½	8	3/4	4	2	4	2	6,645	35,235	24,025	6,645	24,025		
	CC64	51/4, 51/2	5½	3%	11	71/2	9½	6½	5/8	4	2	4	2	5,545	28,585	12,030	5,545	12,030		CC06 ECC06
SS	CC66	51/4, 51/2	5½	5½	11	7½	9½	6½	5/8	4	2	4	2	5,545	30,250	18,905	5,545	18,905		
	CC68	51/4, 51/2	5½	7½	11	9½	9½	6½	5/8	4	2	4	2	5,545	37,815	25,780	5,545	25,780		ECC068
	CC6-7 1/8	51/4, 51/2	5½	71/8	11	9½	9½	6½	5/8	4	2	4	2	5,545	37,815	24,490	5,545	24,490		
	CC74	6¾	6%	3%	13	10½	10½	8	3/4	4	2	4	2	6,330	33,490	15,355	6,330	15,355		CC07 ECC07
	CC76	6¾	6%	5½	13	10½	10½	8	3/4	4	2	4	2	6,790	37,125	24,130	6,790	24,130		
	CC77	6¾	6%	6%	13	10½	10½	8	3/4	4	2	4	2	7,020	48,265	29,615	7,020	29,615		
	CC78	6¾	6%	71/2	13	10½	10½	8	3/4	4	2	4	2	7,145	48,265	32,090	7,145	32,905		
	CC7 1/8-4	7	71/8	3%	13	10½	10½	8	3/4	4	2	4	2	6,360	34,730	18,375	6,360	18,375		CC07 1/8 ECC07 1/8
	CC7 1/8-6	7	71/8	5½	13	10½	10½	8	3/4	4	2	4	2	6,825	38,500	28,875	6,825	28,875		
	CC7 1/8-7 1/8	7	71/8	71/8	13	10½	10½	8	3/4	4	2	4	2	7,105	57,750	36,750	7,105	36,750		
	CC7 1/8-8	7	71/8	7½	13	10½	10½	8	3/4	4	2	4	2	7,190	52,500	39,375	7,190	39,375		
	CC84	71/2	7½	3%	13	10½	10½	8	3/4	4	2	4	2	6,410	37,210	16,405	6,410	16,405		CC08 ECC08
	CC86	71/2	7½	5½	13	10½	10½	8	3/4	4	2	4	2	6,885	41,250	25,780	6,885	25,780		
	CC88	71/2	7½	7½	13	10½	10½	8	3/4	4	2	4	2	7,250	51,565	35,155	7,250	35,155		
	CC94	8¾	8%	3%	13	10½	10½	8	3/4	4	4	4	2	6,580	47,545	19,905	6,580	19,905		CC09 ECC09
	CC96	8¾	8%	5½	13	10½	10½	8	3/4	4	4	4	2	7,080	48,125	31,280	7,080	31,280		
	CC98	8¾	8%	7½	13	10½	10½	8	3/4	4	4	4	2	7,455	62,565	42,655	7,455	42,655		
	CC106	91/4	9½	5½	13	10½	10½	8	3/4	4	4	4	2	7,160	52,250	32,655	7,160	32,655		CC010 ECC010

- 1. Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
- 2. Downloads shall be reduced where limited by allowable loads of the post.
- 3. CC uplift loads do not apply to splice conditions.
- 4. Splice conditions with CCs must be detailed by the designer to transfer tension loads between spliced members by means other than the column cap.
- 5. Column sides are assumed to be aligned in the same vertical plane as the beam sides. CC4.62 models assume a minimum 31/2"-wide post.
- 6. 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.
- 7. Beam depth must be at least as tall as H₁.
- 8. CCO and ECCO welded to a steel column will achieve maximum load listed for the beam and the post cap as CC and ECC. The steel column width shall match the beam width. Weld by designer.
- 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.