

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, ECC3¼, 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.

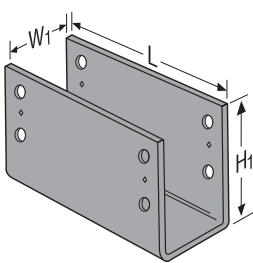
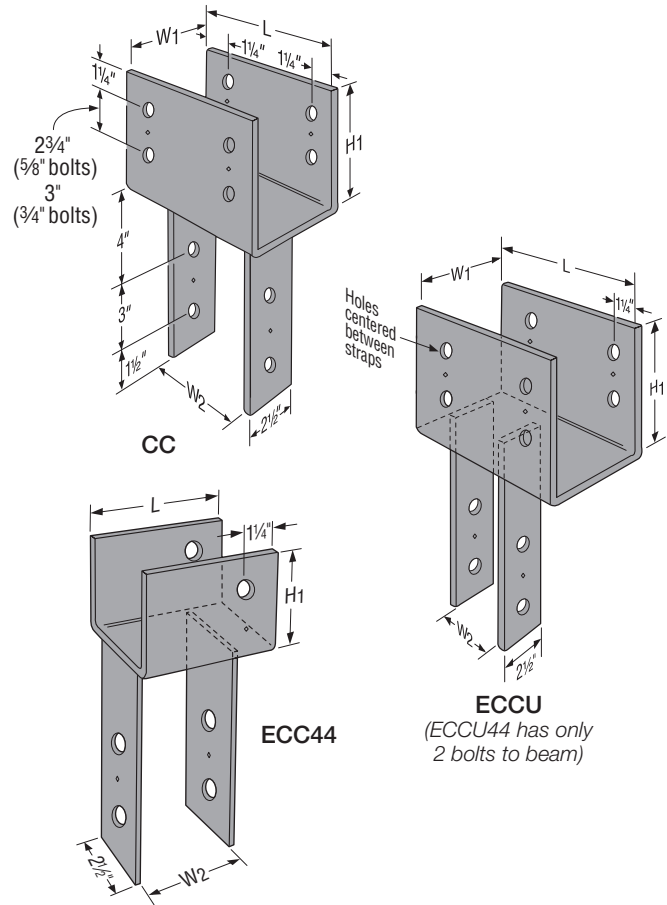
Installation:

- Use all specified fasteners; see General Notes
- Bolt holes shall be a minimum of ½" to a maximum of ⅙" larger than the bolt diameter (per 2015/2018 NDS, section 12.1.3.2)
- Contact engineered wood manufacturers for connections that are not through the wide face

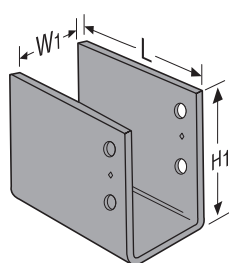
Options:

- Straps may be rotated 90° where $W_1 \geq W_2$ (see illustration) and for CC5¼-6.
- For special, custom or rough-cut lumber sizes, provide dimensions. An optional W_2 dimension may be specified. (The W_2 dimension on straps rotated 90° is limited by the W_1 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.

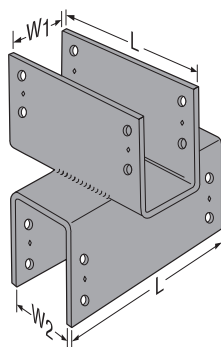
Codes: See p. 11 for Code Reference Key Chart



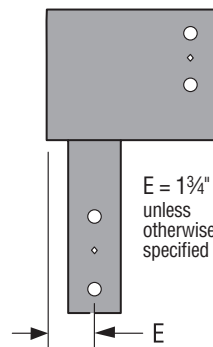
CCO



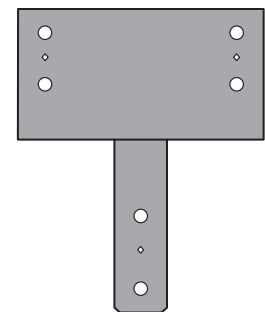
ECCO



CCOB



Optional ECC with Straps Rotated 90°



Optional CC with Straps Rotated 90°

PBS Post-to-Beam Selector

Specify post-to-beam connections

CC/ECC/ECCU

Column Caps (cont.)

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

For stainless-steel fasteners, see p. 21.

	Model No.	Beam Width (in.)	Dimensions (in.)								Bolts				Allowable Loads (DF/SP)					Code Ref.	CCO/ECCO Model No. (No Legs)
			W ₁	W ₂	L			H ₁	Size	Beam			Post	CC		ECC	ECCU				
					CC	ECC	ECCU			CC	ECC	ECCU		Uplift	Down	Down	Uplift	Down			
			(160)	(100)	(100)	(160)	(100)														
SS	CC3 1/4-4	3 1/8	3 1/4	3 3/8	11	7 1/2	9 1/2	6 1/2	5/8	4	2	4	2	3,150	16,980	6,835	3,150	6,835	IBC, FL, LA	CC03 1/4 ECC03 1/4	
	CC3 1/4-6	3 1/8	3 1/4	5 1/2	11	7 1/2	9 1/2	6 1/2	5/8	4	2	4	2	3,150	21,485	10,740	3,150	10,740			
SS	CC44	3 1/2	3 3/8	3 3/8	7	5 1/2	6 1/2	4	5/8	2	1	2	2	1,850	19,020	7,655	1,850	7,655		CC04 ECC04	
	CC46	3 1/2	3 3/8	5 1/2	11	8 1/2	9 1/2	6 1/2	5/8	4	2	4	2	3,530	24,065	12,030	3,530	12,030		CC04/6 ECC04/6	
	CC48	3 1/2	3 3/8	7 1/2	11	8 1/2	9 1/2	6 1/2	5/8	4	2	4	2	3,530	24,065	16,405	3,530	16,405			
	CC4.62-3.62	4 1/2	4 5/8	3 3/8	11	8 1/2	9 1/2	6 1/2	5/8	4	2	4	2	4,535	23,390	9,845	4,535	9,845		CC04.62 ECC04.62	
	CC4.62-4.62	4 1/2	4 5/8	4 5/8	11	8 1/2	9 1/2	6 1/2	5/8	4	2	4	2	4,535	30,070	12,655	4,535	12,655			
	CC4.62-5.50	4 1/2	4 5/8	5 1/2	11	8 1/2	9 1/2	6 1/2	5/8	4	2	4	2	4,535	30,940	15,470	4,535	15,470			
	CC5 1/4-4	5 1/8	5 1/4	3 3/8	13	9 1/2	10 1/2	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	5 1/8	5 1/4	5 1/2	13	9 1/2	10 1/2	8	3/4	4	2	4	2	6,500	28,190	17,615	6,500	17,615			
	CC5 1/4-8	5 1/8	5 1/4	7 1/2	13	9 1/2	10 1/2	8	3/4	4	2	4	2	6,645	35,235	24,025	6,645	24,025			
	CC64	5 1/4, 5 1/2	5 1/2	3 3/8	11	7 1/2	9 1/2	6 1/2	5/8	4	2	4	2	5,545	28,585	12,030	5,545	12,030		CC06 ECC06	
SS	CC66	5 1/4, 5 1/2	5 1/2	5 1/2	11	7 1/2	9 1/2	6 1/2	5/8	4	2	4	2	5,545	30,250	18,905	5,545	18,905		ECC068	
	CC68	5 1/4, 5 1/2	5 1/2	7 1/2	11	9 1/2	9 1/2	6 1/2	5/8	4	2	4	2	5,545	37,815	25,780	5,545	25,780			
	CC6-7 1/8	5 1/4, 5 1/2	5 1/2	7 1/8	11	9 1/2	9 1/2	6 1/2	5/8	4	2	4	2	5,545	37,815	24,490	5,545	24,490			
	CC74	6 3/4	6 7/8	3 3/8	13	10 1/2	10 1/2	8	3/4	4	2	4	2	6,330	33,490	15,355	6,330	15,355		CC07 ECC07	
	CC76	6 3/4	6 7/8	5 1/2	13	10 1/2	10 1/2	8	3/4	4	2	4	2	6,790	37,125	24,130	6,790	24,130			
	CC77	6 3/4	6 7/8	6 7/8	13	10 1/2	10 1/2	8	3/4	4	2	4	2	7,020	48,265	29,615	7,020	29,615			
	CC78	6 3/4	6 7/8	7 1/2	13	10 1/2	10 1/2	8	3/4	4	2	4	2	7,145	48,265	32,090	7,145	32,905			
	CC7 1/8-4	7	7 1/8	3 3/8	13	10 1/2	10 1/2	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	7 1/8	5 1/2	13	10 1/2	10 1/2	8	3/4	4	2	4	2	6,825	38,500	28,875	6,825	28,875			
	CC7 1/8-7 1/8	7	7 1/8	7 1/8	13	10 1/2	10 1/2	8	3/4	4	2	4	2	7,105	57,750	36,750	7,105	36,750			
	CC7 1/8-8	7	7 1/8	7 1/2	13	10 1/2	10 1/2	8	3/4	4	2	4	2	7,190	52,500	39,375	7,190	39,375			
	CC84	7 1/2	7 1/2	3 3/8	13	10 1/2	10 1/2	8	3/4	4	2	4	2	6,410	37,210	16,405	6,410	16,405		CC08 ECC08	
	CC86	7 1/2	7 1/2	5 1/2	13	10 1/2	10 1/2	8	3/4	4	2	4	2	6,885	41,250	25,780	6,885	25,780			
	CC88	7 1/2	7 1/2	7 1/2	13	10 1/2	10 1/2	8	3/4	4	2	4	2	7,250	51,565	35,155	7,250	35,155			
	CC94	8 3/4	8 7/8	3 3/8	13	10 1/2	10 1/2	8	3/4	4	4	4	2	6,580	47,545	19,905	6,580	19,905		CC09 ECC09	
	CC96	8 3/4	8 7/8	5 1/2	13	10 1/2	10 1/2	8	3/4	4	4	4	2	7,080	48,125	31,280	7,080	31,280			
	CC98	8 3/4	8 7/8	7 1/2	13	10 1/2	10 1/2	8	3/4	4	4	4	2	7,455	62,565	42,655	7,455	42,655			
	CC106	9 1/4	9 1/2	5 1/2	13	10 1/2	10 1/2	8	3/4	4	4	4	2	7,160	52,250	32,655	7,160	32,655		CC010 ECC010	

Bases and Caps

- Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
- Downloads shall be reduced where limited by allowable loads of the post.
- CC uplift loads do not apply to splice conditions.
- Splice conditions with CCs must be detailed by the designer to transfer tension loads between spliced members by means other than the column cap.
- Column sides are assumed to be aligned in the same vertical plane as the beam sides. CC4.62 models assume a minimum 3 1/2"-wide post.
- 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.
- Beam depth must be at least as tall as H₁.
- 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.
- 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.