Column Caps

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

Material: CC3¼, CC44, CC46, CC48, CC4.62, CC64, CC66, CC68, CC6-7⅛, ECC3¼, ECC44, ECC46, ECC48, ECC4.62, ECC64, ECC66, ECC68, ECC6-7⅛ — 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:

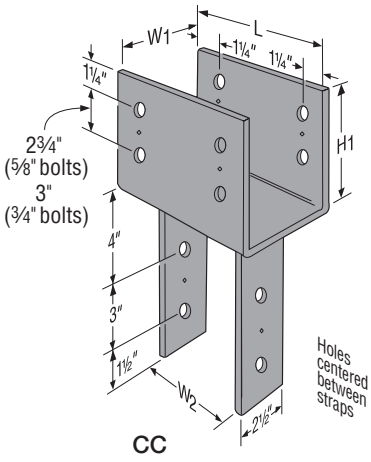
- Use all specified fasteners; see General Notes
- Bolt holes shall be a minimum of 1/32" to a maximum of 1/16" larger than the bolt diameter (per 2015/2018 NDS, section 12.1.3.2)
- Contact engineered wood manufacturers for connections that are not through the wide face

Options:

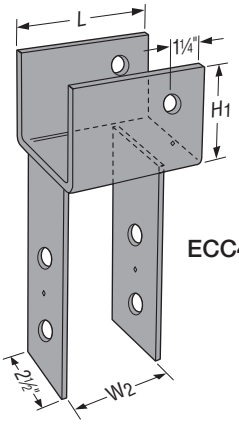
- Straps may be rotated 90° where $W_1 \geq W_2$ (see illustration) and for CC5¼-6.
- For special, custom or rough-cut lumber sizes, provide dimensions. An optional W_2 dimension may be specified. (The W_2 dimension on straps rotated 90° is limited by the W_1 dimension.)
- CCO/ECCO — Column cap only (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. 13 for Code Reference Key Chart

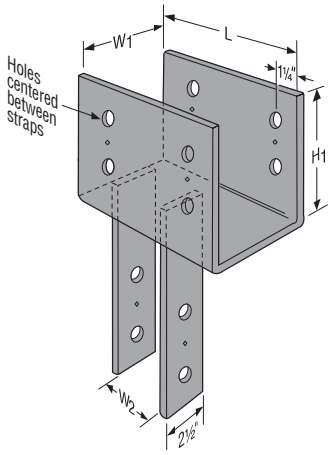
Web Applications: Visit **app.strongtie.com/pbs** to access our Post-to-Beam Selector web application.



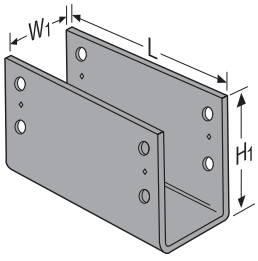
CC



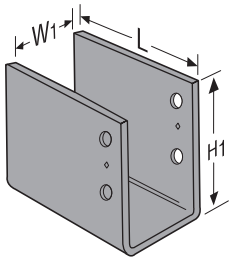
ECC44



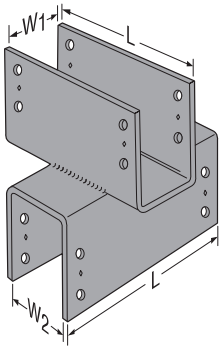
ECCU
(ECCU44 has only 2 bolts to beam)



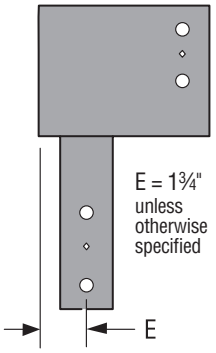
CCO



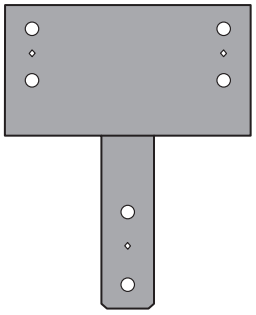
ECCO



CCOB



Optional ECC with Straps Rotated 90°



Optional CC with Straps Rotated 90°

Column Caps (cont.)

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

SS For stainless-steel fasteners, see p. 23.

	Model No.	Beam Width (in.)	Dimensions (in.)						Bolts					DF/SP Allowable Loads					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 (160)	Down (100)	Down (100)	Uplift (160)	Down (100)		
SS	CC3 1/4-4	3⅛	3¼	3⅝	11	7½	9½	6 11/16	⅝	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	3⅛	3¼	5½	11	7½	9½	6 11/16	⅝	4	2	4	2	3,150	21,485	10,740	3,150	10,740		
SS	CC44	3½	3⅝	3⅝	7	5½	6½	4	⅝	2	1	2	2	1,850	15,315	7,655	1,850	7,655		CC04 ECC04
	CC46	3½	3⅝	5½	11	8½	9½	6½	⅝	4	2	4	2	3,530	24,065	12,030	3,530	12,030		CC04/6 ECC04/6
	CC48	3½	3⅝	7½	11	8½	9½	6½	⅝	4	2	4	2	3,530	24,065	16,405	3,530	16,405		
	CC4.62-3.62	4½	4⅝	3⅝	11	8½	9½	6½	⅝	4	2	4	2	4,535	23,390	9,845	4,535	9,845		CC04.62 ECC04.62
	CC4.62-4.62	4½	4⅝	4⅝	11	8½	9½	6½	⅝	4	2	4	2	4,535	30,070	12,655	4,535	12,655		
	CC4.62-5.50	4½	4⅝	5½	11	8½	9½	6½	⅝	4	2	4	2	4,535	30,940	15,470	4,535	15,470		
	CC5 1/4-4	5⅛	5¼	3⅝	13	9½	10½	8	¾	4	2	4	2	6,300	26,635	11,210	6,300	11,210		CC05 1/4 ECC05 1/4
	CC5 1/4-6	5⅛	5¼	5½	13	9½	10½	8	¾	4	2	4	2	6,500	28,190	17,615	6,500	17,615		
	CC5 1/4-8	5⅛	5¼	7½	13	9½	10½	8	¾	4	2	4	2	6,645	35,235	24,025	6,645	24,025		
	CC64	5¼, 5½	5½	3⅝	11	7½	9½	6½	⅝	4	2	4	2	5,545	28,585	12,030	5,545	12,030		CC06 ECC06
SS	CC66	5¼, 5½	5½	5½	11	7½	9½	6½	⅝	4	2	4	2	5,545	30,250	18,905	5,545	18,905		
	CC68	5¼, 5½	5½	7½	11	9½	9½	6½	⅝	4	2	4	2	5,545	37,815	25,780	5,545	25,780		ECC068
	CC6-7 1/8	5¼, 5½	5½	7⅛	11	9½	9½	6½	⅝	4	2	4	2	5,545	37,815	24,490	5,545	24,490		
	CC74	6¾	6⅞	3⅝	13	10½	10½	8	¾	4	2	4	2	6,330	33,490	15,355	6,330	15,355		CC07 ECC07
	CC76	6¾	6⅞	5½	13	10½	10½	8	¾	4	2	4	2	6,790	37,125	24,130	6,790	24,130		
	CC77	6¾	6⅞	6⅞	13	10½	10½	8	¾	4	2	4	2	7,020	48,265	29,615	7,020	29,615		
	CC78	6¾	6⅞	7½	13	10½	10½	8	¾	4	2	4	2	7,145	48,265	32,090	7,145	32,905		
	CC7 1/8-4	7	7⅛	3⅝	13	10½	10½	8	¾	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	7⅛	5½	13	10½	10½	8	¾	4	2	4	2	6,825	38,500	28,875	6,825	28,875		
	CC7 1/8-7 1/8	7	7⅛	7⅛	13	10½	10½	8	¾	4	2	4	2	7,105	57,750	36,750	7,105	36,750		
	CC7 1/8-8	7	7⅛	7½	13	10½	10½	8	¾	4	2	4	2	7,190	52,500	39,375	7,190	39,375		
	CC84	7½	7½	3⅝	13	10½	10½	8	¾	4	2	4	2	6,410	37,210	16,405	6,410	16,405		CC08 ECC08
	CC86	7½	7½	5½	13	10½	10½	8	¾	4	2	4	2	6,885	41,250	25,780	6,885	25,780		
	CC88	7½	7½	7½	13	10½	10½	8	¾	4	2	4	2	7,250	51,565	35,155	7,250	35,155		
	CC94	8¾	8⅞	3⅝	13	10½	10½	8	¾	4	4	4	2	6,580	47,545	19,905	6,580	19,905		CC09 ECC09
	CC96	8¾	8⅞	5½	13	10½	10½	8	¾	4	4	4	2	7,080	48,125	31,280	7,080	31,280		
	CC98	8¾	8⅞	7½	13	10½	10½	8	¾	4	4	4	2	7,455	62,565	42,655	7,455	42,655		
	CC106	9¼	9½	5½	13	10½	10½	8	¾	4	4	4	2	7,160	52,250	32,655	7,160	32,655		CCO10 ECCO10
NEW	CC126	11½	11⅝	5⅝	13	10½	10½	8	¾	4	4	4	2	7,410	63,250	39,530	7,410	39,530	—	CCO12 ECCO12
NEW	CC128	11½	11⅝	7⅝	13	10½	10½	8	¾	4	4	4	2	7,790	86,250	53,905	7,790	53,905		
NEW	CC1210	11½	11⅝	9⅝	13	10½	10½	8	¾	4	4	4	2	8,080	93,440	68,280	8,080	68,280		

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 3½"-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 H_1.
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.