

CC/ECC/ECCU Column Caps

Column caps provide a high capacity connection for column-beam combinations.

MATERIAL: CC3¼, CC44, CC46, CC48, CC64, CC66, CC68, CC6-7½, ECC3¼, ECC44, ECC46, ECC48, ECC64, ECC66, ECC68, ECC6-7½—7 gauge; all others—3 gauge

FINISH: Simpson Strong-Tie® gray paint; may be ordered HDG; 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 2005 NDS, section 11.1.2).
- Contact engineered wood manufacturers for connections that are not through the wide face.

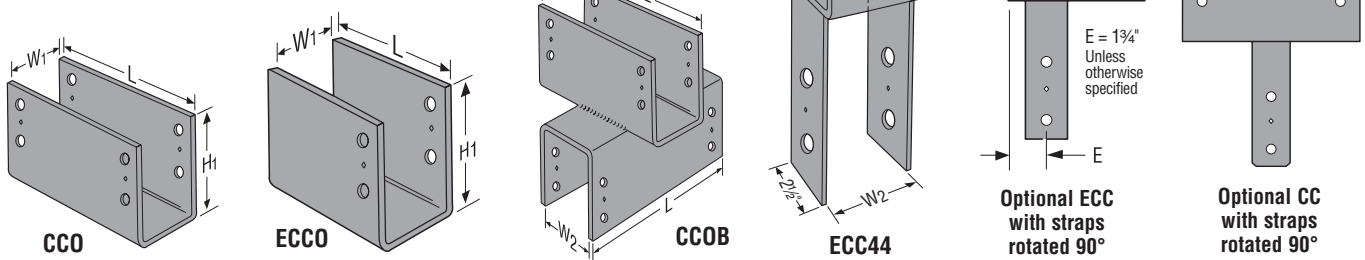
OPTIONS: • Straps may be rotated 90° where $W_1 \geq W_2$ (see illustration).

- For special, custom, or rough cut lumber sizes, provide dimensions. An optional W_2 dimension may be specified with any column size given (note that 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. No loads apply. CCO/ECCO dimensions are the same as CC/ECC.

• **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 page 12 for Code Reference Key Chart.



Caps & Bases

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Model No. (CC shown ECC/ECCU similar)	Beam Width	Dimensions						Machine Bolts				Allowable Loads				Code Ref.	CCO Model No. (No Legs)	ECCO Model No. (No Legs)		
		W ₁	W ₂	L			H ₁	Size	Beam			Down		Uplift						
				CC	ECC	ECCU			CC	ECC	ECCU	CC	ECC/ ECCU	CC (160)	ECCU (160)					
CC3¼-4	3½	3¼	3¾	11	7½	9½	6½	5/8	4	2	4	2	16980	6125	3640	1010	I12, L20, F11	CC03¼	ECC03¼	
CC3¼-6	3½	3¼	5½	11	7½	9½	6½	5/8	4	2	4	2	19250	9625	3640	1010		CC04	ECC04	
CC44	4x	3¾	3¾	7	5½	6½	4	5/8	2	1	2	2	15310	7655	1465	205		160	CC04/6	ECC04/6
CC46	4x	3¾	5½	11	8½	9½	6½	5/8	4	2	4	2	24060	12030	2800	740			CC06	ECC06
CC48	4x	3¾	7½	11	8½	9½	6½	5/8	4	2	4	2	24060	16405	2800	740	ECC068			
CC5¼-4	5½	5¼	3¾	13	9½	10½	8	¾	4	2	4	2	26635	10045	7530	2735		I12, L20, F11	CC05¼	ECC05¼
CC5¼-6	5½	5¼	5½	13	9½	10½	8	¾	4	2	4	2	28190	15785	7530	2735	CC06		ECC068	
CC5¼-8	5½	5¼	7½	13	9½	10½	8	¾	4	2	4	2	37310	21525	7530	2735	160		CC07½	ECC07½
CC64	6x	5½	3¾	11	7½	9½	6½	5/8	4	2	4	2	28586	12030	4040	1165			I12, L20, F11	CC07
CC66	6x	5½	5½	11	7½	9½	6½	5/8	4	2	4	2	30250	18905	4040	1165	CC08	ECC08		
CC68	6x	5½	7½	11	9½	9½	6½	5/8	4	2	4	2	37810	25780	4040	1165	CC09	ECC09		
CC6-7½	6x	5½	7½	11	9½	9½	6½	5/8	4	2	4	2	37810	24060	4040	1165	CC010	ECC010		
CC7½-4	7	7½	3¾	13	10½	10½	8	¾	4	2	4	2	34736	18375	7510	4855	160			
CC7½-6	7	7½	5½	13	10½	10½	8	¾	4	2	4	2	58500	28875	7585	4855		CC07½	ECC07½	
CC7½-7½	7	7½	7½	13	10½	10½	8	¾	4	2	4	2	57750	36750	7585	4855		170		
CC7½-8	7	7½	7½	13	10½	10½	8	¾	4	2	4	2	52500	36750	7585	4855			CC07	ECC07
CC74	6¾	6¾	3¾	13	10½	10½	8	¾	4	2	4	2	33490	13230	7525	3605	I12, L20, F11	CC08	ECC08	
CC76	6¾	6¾	5½	13	10½	10½	8	¾	4	2	4	2	37125	20790	7525	3605		CC09	ECC09	
CC77	6¾	6¾	6¾	13	10½	10½	8	¾	4	2	4	2	49140	25515	7525	3605		CC09	ECC09	
CC78	6¾	6¾	7½	13	10½	10½	8	¾	4	2	4	2	49140	28350	7525	3605		CC10	ECC10	
CC86	8x	7½	5½	13	10½	10½	8	¾	4	2	4	2	41250	23100	7440	2625	I12, L20, F11	CC08	ECC08	
CC88	8x	7½	7½	13	10½	10½	8	¾	4	2	4	2	54600	31500	7440	2625		CC09	ECC09	
CC96	8¾	8¾	5½	13	10½	10½	8	¾	4	4	4	2	48125	26950	7515	4670		CC09	ECC09	
CC98	8¾	8¾	7½	13	10½	10½	8	¾	4	4	4	2	63700	36750	7515	4670		CC010	ECC010	
CC106	10x	9½	5½	13	10½	10½	8	¾	4	4	4	2	52250	29260	7515	3325				

1. Post sides are assumed to lie in the same vertical plane as the beam sides.
2. Loads may not be increased for short-term loading.
3. Downloads are determined using $F_c \perp$ equal to: 560 psi for glulam sizes and CC86, CC88 and CC106; 750 psi for 7½" size; 625 psi for all others; reduce where end grain bearing or buckling capacity of the column, or other criteria are limiting.
4. Uplift loads have been increased for wind or earthquake load durations with no further increase allowed; reduce where other load durations govern. Uplift loads are limited by the beam shear capacity per 2005 NDS except CC76, CC78, and CC96 through CC106.

5. Beam splices with CC's must be detailed by the Designer to transfer tension loads between spliced members by means other than the column cap.
6. CC uplift loads do not apply to splice conditions.
7. Beam depth must be at least as tall as H_1 .
8. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers. Values in the tables reflect installation into the wide face. See technical bulletin T-SCLCOLUMN for values on the narrow face (edge) (see page 191 for details).
9. For 5¼" engineered lumber, use CC 6X or ECC 6X models.