CC/ECC/ECCU *Column Caps*

SIMPSON Strong-Tie®

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

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

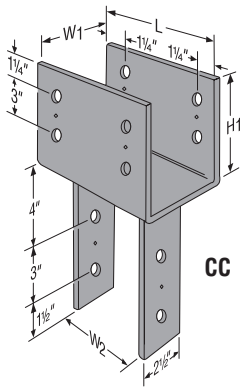
- Bolt holes shall be a minimum of 1/32" to a maximum of 1/16" larger than the bolt diameter *(per 2005 NDS, section 11.1.2)*.
- Contact engineered wood manufacturers for connections that are not through the wide face.

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

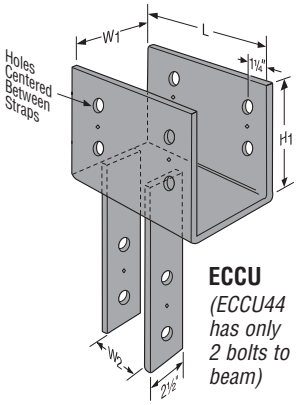
- For special, custom, or rough cut lumber sizes, provide dimensions. An optional W_2 dimension may be specified with any column size given *(note that the W_2 dimension on straps rotated 90° is limited by the W_1 dimension)*.
- **CCO/ECCO**—Column cap only *(no straps)* may be ordered for field-welding 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.

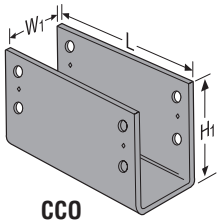
CODES: See page 12 for Code Reference Key Chart.



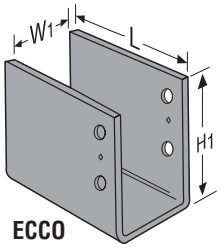
CC



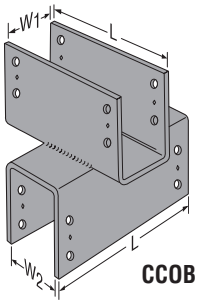
ECCU
(ECCU44 has only 2 bolts to beam)



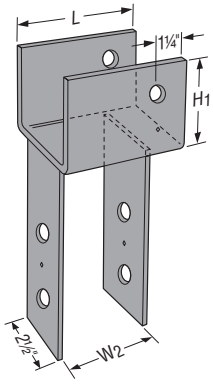
CCO



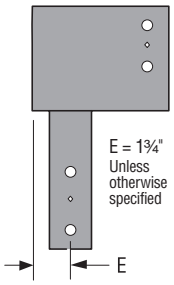
ECCO



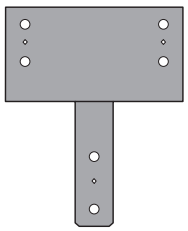
CCOB



ECC44



Optional ECC with straps rotated 90°


Optional CC with straps rotated 90°

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			Post	Down		Uplift				
				CC	ECC	ECCU			CC	ECC	ECCU		CC	ECC/ ECCU	CC (160)	ECCU (160)			
CC3¼-4	3⅛	3¼	3⅝	11	7½	9½	6½	⅝	4	2	4	2	16980	6125	3640	1010	I12, L20, F11	CCO3¼	ECCO3¼
CC3¼-6	3⅛	3¼	5½	11	7½	9½	6½	⅝	4	2	4	2	19250	9625	3640	1010			
CC44	4x	3⅝	3⅝	7	5½	6½	4	⅝	2	1	2	2	15310	7655	1465	205		CCO4	ECCO4
CC46	4x	3⅝	5½	11	8½	9½	6½	⅝	4	2	4	2	24060	12030	2800	740		CCO4/6	ECCO4/6
CC48	4x	3⅝	7½	11	8½	9½	6½	⅝	4	2	4	2	24060	16405	2800	740	160		
CC5¼-4	5⅛	5¼	3⅝	13	9½	10½	8	¾	4	2	4	2	26635	10045	7530	2735	I12, L20, F11	CCO5¼	ECCO5¼
CC5¼-6	5⅛	5¼	5½	13	9½	10½	8	¾	4	2	4	2	28190	15785	7530	2735			
CC5¼-8	5⅛	5¼	7½	13	9½	10½	8	¾	4	2	4	2	37310	21525	7530	2735			
CC64	6x	5½	3⅝	11	7½	9½	6½	⅝	4	2	4	2	28586	12030	4040	1165		CCO6	ECCO6
CC66	6x	5½	5½	11	7½	9½	6½	⅝	4	2	4	2	30250	18905	4040	1165			
CC68	6x	5½	7½	11	9½	9½	6½	⅝	4	2	4	2	37810	25780	4040	1165			ECC068
CC6-7⅛	6x	5½	7⅛	11	9½	9½	6½	⅝	4	2	4	2	37810	24060	4040	1165	160		
CC7⅛-4	7	7⅛	3⅝	13	10½	10½	8	¾	4	2	4	2	34736	18375	7510	4855		CCO7⅛	ECCO7⅛
CC7⅛-6	7	7⅛	5½	13	10½	10½	8	¾	4	2	4	2	58500	28875	7585	4855			
CC7⅛-7⅛	7	7⅛	7⅛	13	10½	10½	8	¾	4	2	4	2	57750	36750	7585	4855			
CC7⅛-8	7	7⅛	7½	13	10½	10½	8	¾	4	2	4	2	52500	36750	7585	4855			
CC74	6¾	6⅞	3⅝	13	10½	10½	8	¾	4	2	4	2	33490	13230	7525	3605	170		
CC76	6¾	6⅞	5½	13	10½	10½	8	¾	4	2	4	2	37125	20790	7525	3605		CCO7	ECCO7
CC77	6¾	6⅞	6⅞	13	10½	10½	8	¾	4	2	4	2	49140	25515	7525	3605			
CC78	6¾	6⅞	7½	13	10½	10½	8	¾	4	2	4	2	49140	28350	7525	3605			
CC86	8x	7½	5½	13	10½	10½	8	¾	4	2	4	2	41250	23100	7440	2625		CCO8	ECCO8
CC88	8x	7½	7½	13	10½	10½	8	¾	4	2	4	2	54600	31500	7440	2625	I12, L20, F11		
CC96	8¾	8⅞	5½	13	10½	10½	8	¾	4	4	4	2	48125	26950	7515	4670		CCO9	ECCO9
CC98	8¾	8⅞	7½	13	10½	10½	8	¾	4	4	4	2	63700	36750	7515	4670			
CC106	10x	9½	5½	13	10½	10½	8	¾	4	4	4	2	52250	29260	7515	3325		CCO10	ECCO10

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 7⅛" 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.