

CC/ECC/ECCU Column Caps

The industry standard column caps. Precision factory gang-punched holes speed installation on this product line. Specifically designed to meet Canadian Building Code requirements.

MATERIAL: CC3¼C, CC44C, CC46C, CC48C, CC64C, CC66C, CC68C, CC6-7¼C, ECC3¼C, ECC44C, ECC46C, ECC48C, ECC64C, ECC66C, ECC68C, ECC6-7¼C—7 gauge; all others—3 gauge

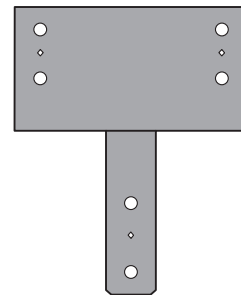
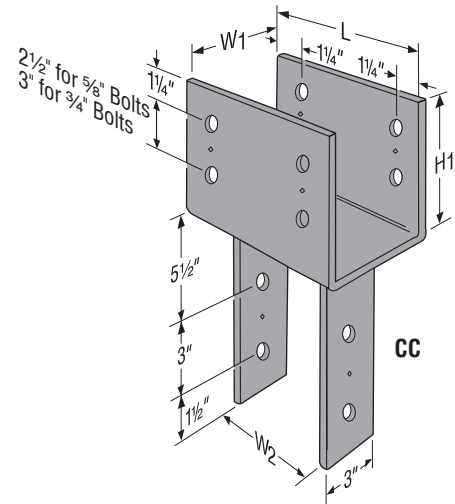
FINISH: Simpson gray paint; may be ordered HDG; CCO, ECCO—uncoated

INSTALLATION: • Use all specified fasteners. See General Notes.

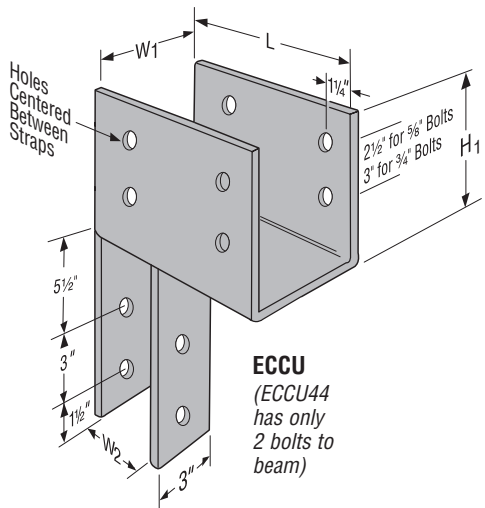
- Bolt holes shall be a minimum of 1/32" to a maximum of 1/16" larger than the bolt diameter (per 10.4.1.2 CSA O86-01).
- Contact engineered wood manufacturer for connections that are not through the wide face.

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

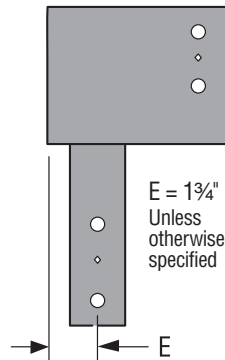
- For special, custom, or rough cut lumber sizes, provide dimensions. An optional W_2 dimension may be specified with any column size given (note that the W_2 dimension on straps rotated 90° is limited by the W_1 dimension).
- **CCO/ECCO**—Column cap only (no straps) may be ordered for field-welding to pipe or other columns. No resistances apply. CCO/ECCO dimensions are the same as CC/ECC.
- **CCOB**—Any two CCO's may be specified for back-to-back welding to create a cross beam connector. Use the tabulated resistances; the resistance is no greater than that of the lesser element employed.
- **ECCU**—Order when uplift resistance is required for end column cap applications.
- See page 51 for CCC, CCT and ECCL options.



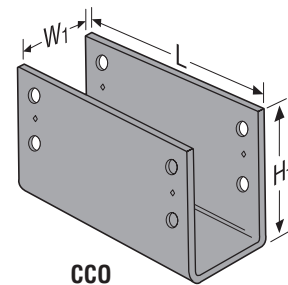
Optional CC
with straps rotated 90°



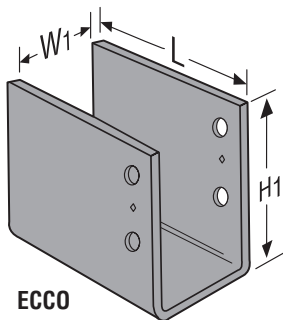
ECCU
(ECCU44
has only
2 bolts to
beam)



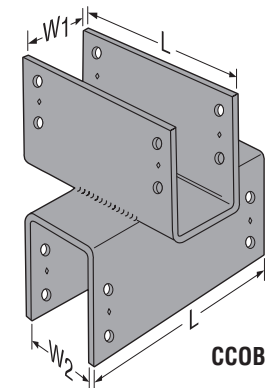
Optional ECC
with straps
rotated 90°



CCO



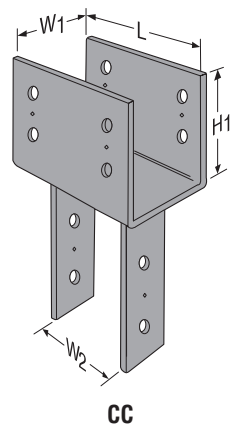
ECCO



CCOB

CC/ECC/ECCU Column Caps

Model No.	Dimensions (in)				Fasteners				Factored Resistance					
	W ₁	W ₂	L	H ₁	Beam		Post		Uplift (K _D =1.15)			Normal (K _D =1.00)		
					Qty.	Dia. (in)	Qty.	Dia. (in)	D. Fir-L	S-P-F	SCL	D. Fir-L	S-P-F	SCL
									lbs	lbs	lbs	lbs	lbs	lbs
kN	kN	kN	kN	kN	kN									
CC3¼-4C	3¼	3⅝	12	6½	4	⅝	2	⅝	6645	5965	—	30400	25200	—
									29.60	26.57	—	135.41	112.25	—
CC3¼-6C	3¼	5½	12	6½	4	⅝	2	⅝	6645	5965	—	30400	25200	—
									29.60	26.57	—	135.41	112.25	—
CC44C	3⅝	3⅝	7½	6½	4	⅝	2	⅝	7390	6335	7545	21315	16145	28665
									32.92	28.22	33.61	94.94	71.92	127.68
CC46C	3⅝	5½	12	6½	4	⅝	2	⅝	7390	6335	7545	34105	25830	45865
									32.92	28.22	33.61	151.92	115.06	204.30
CC48C	3⅝	7½	12	6½	4	⅝	2	⅝	7390	6335	7545	34105	25830	45865
									32.92	28.22	33.61	151.92	115.06	204.30
CC5¼-4C	5¼	3⅝	13	8	4	¾	2	¾	7835	6715	—	54100	44770	—
									34.90	29.91	—	240.98	199.42	—
CC5¼-6C	5¼	5½	13	8	4	¾	2	¾	11980	11110	—	54100	44770	—
									53.36	49.49	—	240.98	199.42	—
CC5¼-8C	5¼	7½	13	8	4	¾	2	¾	12450	11180	—	54100	44770	—
									55.46	49.80	—	240.98	199.42	—
CC64C	5½	3⅝	12	6½	4	⅝	2	⅝	8275	7105	8355	53590	40590	68795
									36.86	31.65	37.22	238.71	180.80	306.44
CC66C	5½	5½	12	6½	4	⅝	2	⅝	9545	8845	9470	53590	40590	68795
									42.52	39.40	42.18	238.71	180.80	306.44
CC68C	5½	7½	12	6½	4	⅝	2	⅝	9545	8845	9470	53590	40590	68795
									42.52	39.40	42.18	238.71	180.80	306.44
CC6-7¼C	5½	7¼	12	6½	4	⅝	2	⅝	9545	8845	9470	53590	40590	68795
									42.52	39.40	42.18	238.71	180.80	306.44
CC74C	6⅞	3⅝	13	8	4	¾	2	¾	7835	6715	—	72575	60060	—
									34.90	29.91	—	323.27	267.53	—
CC76C	6⅞	5½	13	8	4	¾	2	¾	11980	11110	—	72575	60060	—
									53.36	49.49	—	323.27	267.53	—
CC77C	6⅞	6⅞	13	8	4	¾	2	¾	12505	11860	—	72575	60060	—
									55.70	52.83	—	323.27	267.53	—
CC78C	6⅞	7½	13	8	4	¾	2	¾	12505	11590	—	72575	60060	—
									55.70	51.63	—	323.27	267.53	—
CC7¼-4C	7¼	3⅝	13	8	4	¾	2	¾	—	—	7995	—	—	99370
									—	—	35.61	—	—	442.63
CC7¼-6C	7¼	5½	13	8	4	¾	2	¾	—	—	11795	—	—	99370
									—	—	52.54	—	—	442.63
CC7¼-7¼C	7¼	7¼	13	8	4	¾	2	¾	—	—	12630	—	—	99370
									—	—	56.25	—	—	442.63
CC86C	7½	5½	13	8	4	¾	2	¾	11980	11110	—	79170	59965	—
									53.36	49.49	—	352.65	267.10	—
CC88C	7½	7½	13	8	4	¾	2	¾	12505	11590	—	79170	59965	—
									55.70	51.63	—	352.65	267.10	—
CC96C	8⅞	5½	13	8	4	¾	2	¾	11980	11110	—	89725	74255	—
									53.36	49.49	—	399.67	330.76	—
CC98C	8⅞	7½	13	8	4	¾	2	¾	12505	11590	—	89725	74255	—
									55.70	51.63	—	399.67	330.76	—
CC106C	9½	5½	13	8	4	¾	2	¾	11980	11110	—	100280	75955	—
									53.36	49.49	—	446.68	338.33	—



CC

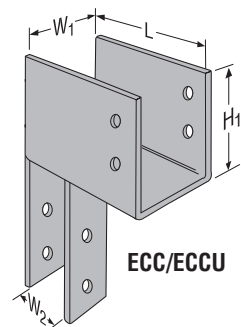
- Post sides are assumed to lie in the same vertical plane as the beam sides.
- Factored resistances may not be increased for short-term load duration.
- Factored resistances are determined using ϕF_{cp} equal to: 812 psi (5.6 MPa) for D. Fir-L and 672 psi (4.64 MPa) for Spruce-Pine glulam sizes; 1092 psi (7.53 MPa) for SCL sizes; reduce where end grain bearing or buckling capacity of post governs.
- Factored uplift resistances have been increased 15% for earthquake or wind loading; reduce for other load durations in accordance with the code.
- Spliced conditions must be detailed by the Designer to transfer tension loads between spliced members by means other than the column cap.
- Factored uplift resistances do not apply to splice conditions.
- Designer to design beam for factored uplift resistance based on effective shear depth as per 10.2.1.4 CSA O86-01.
- SCL assumes SG = 0.50.
- Beam depth must be greater than H₁.

CC/ECC/ECCU Column Caps

Model No.	Dimensions (in)					Fasteners					Factored Resistance					
	W ₁	W ₂	L		H ₁	Beam			Post		ECCU Uplift (K _D =1.15)			ECC/ECCU Normal (K _D =1.00)		
			ECC	ECCU		ECC Qty.	ECCU Qty.	Dia. (in)	Qty.	Dia. (in)	D.Fir-L	S-P-F	SCL	D.Fir-L	S-P-F	SCL
	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs
kN	kN	kN	kN	kN	kN	kN	kN	kN	kN	kN	kN	kN	kN	kN	kN	kN
ECC3¼-4C	3¼	3¾	7½	9½	6½	2	4	⅝	2	⅝	4150	3370	—	8880	7350	—
											18.49	16.61	—	39.55	32.74	—
ECC3¼-6C	3¼	5½	7½	9½	6½	2	4	⅝	2	⅝	4150	3370	—	13955	11550	—
											18.49	16.61	—	62.16	51.45	—
ECC44C	3¾	3¾	7½	9½	6½	2	4	⅝	2	⅝	4620	3960	4715	9945	7520	13375
											20.58	17.64	21.00	44.30	33.50	59.58
ECC46C	3¾	5½	8½	9½	6½	2	4	⅝	2	⅝	4620	3960	4715	15630	11820	21020
											20.58	17.64	21.00	69.62	52.65	93.63
ECC48C	3¾	7½	8½	9½	6½	2	4	⅝	2	⅝	4620	3960	4715	21315	16120	28665
											20.58	17.64	21.00	94.94	71.80	127.68
ECC5¼-4C	5¼	3¾	9½	10½	8	2	4	¾	2	¾	7785	6670	—	14565	12055	—
											34.68	29.71	—	64.88	53.70	—
ECC5¼-6C	5¼	5½	9½	10½	8	2	4	¾	2	¾	7785	6670	—	22890	18940	—
											34.68	29.71	—	101.96	84.37	—
ECC5¼-8C	5¼	7½	9½	10½	8	2	4	¾	2	¾	7785	6670	—	31210	25830	—
											34.68	29.71	—	139.02	115.06	—
ECC64C	5½	3¾	7½	9½	6½	2	4	⅝	2	⅝	7030	6230	7045	15630	11820	20065
											31.31	27.75	31.38	69.62	52.65	89.38
ECC66C	5½	5½	7½	9½	6½	2	4	⅝	2	⅝	7030	6230	7045	24565	18575	31530
											31.31	27.75	31.38	109.42	82.74	140.45
ECC6-7¼C	5½	7¼	9½	9½	6½	2	4	⅝	2	⅝	7030	6230	7045	31260	23640	40130
											31.31	27.75	31.38	139.24	105.30	178.75
ECC68C	5½	7½	9½	9½	6½	2	4	⅝	2	⅝	7030	6230	7045	33495	25330	43000
											31.31	27.75	31.38	149.20	112.83	191.54
ECC74C	6¾	3¾	10½	10½	8	2	4	¾	2	¾	7835	6715	—	19540	16170	—
											34.90	29.91	—	87.04	72.03	—
ECC76C	6¾	5½	10½	10½	8	2	4	¾	2	¾	9905	9390	—	30705	25410	—
											44.12	41.83	—	136.77	113.18	—
ECC77C	6¾	6¾	10½	10½	8	2	4	¾	2	¾	9905	9390	—	38380	31760	—
											44.12	41.83	—	170.96	141.48	—
ECC78C	6¾	7½	10½	10½	8	2	4	¾	2	¾	9905	9390	—	41870	34650	—
											44.12	41.83	—	186.50	154.34	—
ECC7¼-4C	7¼	3¾	10½	10½	8	2	4	¾	2	¾	—	—	7995	—	—	26755
											—	—	35.61	—	—	119.18
ECC7¼-6C	7¼	5½	10½	10½	8	2	4	¾	2	¾	—	—	9205	—	—	40130
											—	—	40.99	—	—	178.75
ECC7¼-7¼C	7¼	7¼	10½	10½	8	2	4	¾	2	¾	—	—	9205	—	—	53510
											—	—	40.99	—	—	238.35
ECC86C	7½	5½	10½	10½	8	2	4	¾	2	¾	9905	9175	—	33495	25330	—
											44.12	40.87	—	149.20	112.83	—
ECC88C	7½	7½	10½	10½	8	2	4	¾	2	¾	9905	9175	—	45675	34540	—
											44.12	40.87	—	203.45	153.85	—
ECC96C	8¾	5½	10½	10½	8	4	4	¾	2	¾	9905	9390	—	37960	31415	—
											44.12	41.83	—	169.09	139.93	—
ECC98C	8¾	7½	10½	10½	8	4	4	¾	2	¾	9905	9390	—	51765	42840	—
											44.12	41.83	—	230.58	190.82	—
ECC106C	9½	5½	10½	10½	8	4	4	¾	2	¾	9905	9175	—	42425	32080	—
											44.12	40.87	—	188.98	142.90	—

- Post sides are assumed to lie in the same vertical plane as the beam sides.
- Factored resistances may not be increased for short-term load duration.
- Factored resistances are determined using ϕF_{cp} equal to: 812 psi (5.6 MPa) for D.Fir-L and 672 psi (4.64 MPa) for Spruce-Pine glulam sizes; 1092 psi (7.53 MPa) for SCL sizes; reduce where end bearing or buckling capacity of post governs.

- Factored uplift resistances have been increased 15% for earthquake or wind loading; reduce for other load durations in accordance with the code.
- ECC downloads assume a post of $W_1 \times W_2$.
- Designer to design beam for factored uplift resistance based on effective shear depth as per 10.2.1.4 CSA O86-01.
- SCL assumes $SG = 0.50$.
- Beam depth must be greater than H_1 .



ECC/ECCU