

**ECCQ** Column Caps



This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

This design uses SDS screws to provide faster installation. The SDS screws provide for a lower profile compared to standard through bolts.

**MATERIAL:** ECCQ3, ECCQ4, ECCQ6—7 gauge; all others—3 gauge.

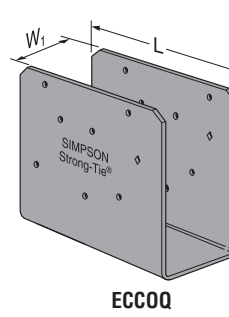
**FINISH:** Simpson gray paint, available in HDG with HDG screws; ECCOQ—uncoated.

**INSTALLATION:** Fasteners provided. See General Notes.

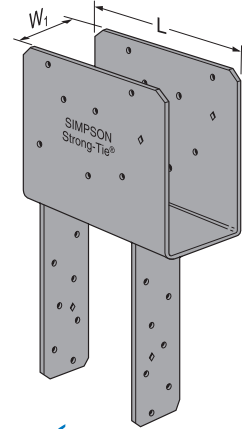
- Install Simpson Strong-Tie® SDS ¼"x2½" wood screws, which are provided with the column cap. (Lag screws will not achieve the same load.)

**OPTIONS:** Straps may be rotated 90° where  $W_1 \geq W_2$ .

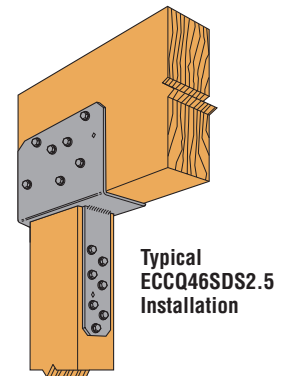
- ECCOQ—may be ordered for field welding to pipe or other columns (no loads apply).
- See page 51 for ECCLQ options.



ECCOQ



ECCQ46SDS2.5



Typical  
ECCQ46SDS2.5  
Installation

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.	Dimensions (in)				No. of SDS ¼"x2½" Screws		Factored Resistance					
	W <sub>1</sub>	W <sub>2</sub>	L	H			Uplift (K <sub>p</sub> =1.15)			Normal (K <sub>p</sub> =1.00)		
					Beam	Post	D.Fir-L lbs kN	S-P-F lbs kN	SCL lbs kN	D.Fir-L lbs kN	S-P-F lbs kN	SCL lbs kN
ECCQ3-4SDS2.5	3¼	3%	8½	7	14	14	7005	6180	—	8880	7350	—
ECCQ3-6SDS2.5	3¼	5½	8½	7	14	14	7005	6180	—	13955	11550	—
ECCQ44SDS2.5	3%	3%	8½	7	14	14	7005	6180	7150	9945	7530	13375
ECCQ46SDS2.5	3%	5½	8½	7	14	14	7005	6180	7150	15630	11830	21020
ECCQ48SDS2.5	3%	7½	8½	7	14	14	7005	6180	7150	21315	16130	28665
ECCQ5-4SDS2.5	5¼	3%	8½	7	14	14	7375	6520	—	14565	12055	—
ECCQ5-6SDS2.5	5¼	5½	8½	7	14	14	7375	6520	—	22890	18940	—
ECCQ5-8SDS2.5	5¼	7½	8½	7	14	14	7375	6520	—	31210	25830	—
ECCQ64SDS2.5	5½	3%	8½	7	14	14	7005	6180	7150	15630	11830	20065
ECCQ66SDS2.5	5½	5½	8½	7	14	14	7005	6180	7150	24565	18590	31530
ECCQ6-7.13SDS2.5	5½	7%	8½	7	14	14	7005	6180	7150	31260	23660	40130
ECCQ68SDS2.5	5½	7½	8½	7	14	14	7005	6180	7150	33495	25350	43000
ECCQ74SDS2.5	6%	3%	8½	7	14	14	7375	6520	—	19185	15875	—
ECCQ76SDS2.5	6%	5½	8½	7	14	14	7375	6520	—	30145	24950	—
ECCQ77SDS2.5	6%	6%	8½	7	14	14	7375	6520	—	36995	30620	—
ECCQ78SDS2.5	6%	7½	8½	7	14	14	7375	6520	—	41110	34020	—
ECCQ71-4SDS2.5	7½	3%	8½	7	14	14	7375	6520	7535	—	—	26755
ECCQ71-6SDS2.5	7½	5½	8½	7	14	14	7375	6520	7535	—	—	42040
ECCQ71-7.1SDS2.5	7½	7%	8½	7	14	14	7375	6520	7535	—	—	53510
ECCQ71-8SDS2.5	7½	7½	8½	7	14	14	7375	6520	7535	—	—	57330
ECCQ86SDS2.5	7½	5½	8½	7	14	14	7375	6520	—	45675	34565	—
ECCQ88SDS2.5	7½	7½	8½	7	14	14	7375	6520	—	62285	47135	—
ECCQ96SDS2.5	8%	5½	8½	7	14	14	7375	6520	—	37960	31415	—
ECCQ98SDS2.5	8%	7½	8½	7	14	14	7375	6520	—	51765	42840	—
ECCQ106SDS2.5	9½	5½	8½	7	14	14	7375	6520	—	42425	32110	—

**NOTE:** 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.

1. Factored down resistances are determined using  $\phi F_{cp}$  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.
2. Spliced conditions must be detailed by the Designer to transfer tension loads between spliced members by means other than the column cap.
3. Factored uplift resistances do not apply to splice conditions.
4. Post sides are assumed to lie in the same vertical plane as the beam sides.
5. Loads may not be increased for short-term loading.
6. Uplift loads have been increased 15% for earthquake or wind loading; reduce for other loading conditions in accordance with the code.
7. ECCQ downloads assume a post of  $W_1 \times W_2$ .
8. Designer to design beam for factored uplift resistance based on effective shear depth as per 10.2.1.4 CSA O86-01
9. SCL assumes SG = 0.50
10. Beam depth must be greater than 7".