

CCQ 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: CCQ3, CCQ4, CCQ6—7 gauge; all others—3 gauge.

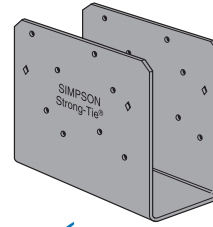
FINISH: Simpson gray paint, available in HDG with HDG screws; CCQ—uncoated.

INSTALLATION: Fasteners provided. See General Notes.

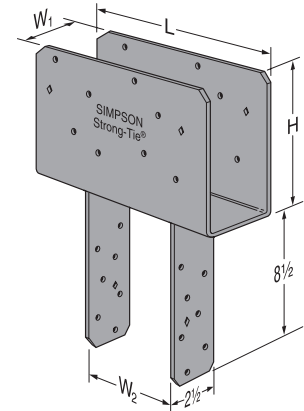
- Install Simpson Strong-Tie® SDS 1/4"x2 1/2" wood screws, which are provided with the column cap. (Lag screws will not achieve the same load.)

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

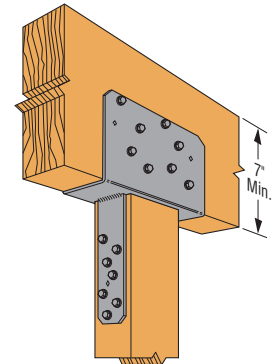
- CCQ—may be ordered for field welding to pipe or other columns (no loads apply).
- See page 51 for CCCQ and CCTQ options.



CCQ4-SDS2.5



CCQ46SDS2.5



Typical CCQ46SDS2.5 Installation

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 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.
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. Designer to design beam for factored uplift resistance based on effective shear depth as per 10.2.1.4 CSA 086-01.
8. SCL assumes SG = 0.50
9. Beam depth must be greater than 7".

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 1/4"x2 1/2" Screws | | Factored Resistance | | | | | |
|------------------|-----------------|----------------|----|---|-------------------------------|------|-------------------------------|-------|-------|-------------------------------|--------|--------|
| | W ₁ | W ₂ | L | H | | | Uplift (K _D =1.15) | | | Normal (K _D =1.00) | | |
| | | | | | Beam | Post | D.Fir-L | S-P-F | SCL | D.Fir-L | S-P-F | SCL |
| CCQ3-4SDS2.5 | 3 1/4 | 3 5/8 | 11 | 7 | 16 | 14 | 7005 | 6180 | — | 27915 | 23100 | — |
| | | | | | | | 31.21 | 27.43 | — | 124.34 | 102.90 | — |
| CCQ3-6SDS2.5 | 3 1/4 | 5 1/2 | 11 | 7 | 16 | 14 | 7005 | 6180 | — | 27915 | 23100 | — |
| | | | | | | | 31.21 | 27.43 | — | 124.34 | 102.90 | — |
| CCQ44SDS2.5 | 3 5/8 | 3 5/8 | 11 | 7 | 16 | 14 | 7005 | 6180 | 7150 | 31260 | 23660 | 42040 |
| | | | | | | | 31.21 | 27.43 | 31.85 | 139.24 | 105.39 | 187.26 |
| CCQ46SDS2.5 | 3 5/8 | 5 1/2 | 11 | 7 | 16 | 14 | 7005 | 6180 | 7150 | 31260 | 23660 | 42040 |
| | | | | | | | 31.21 | 27.43 | 31.85 | 139.24 | 105.39 | 187.26 |
| CCQ48SDS2.5 | 3 5/8 | 7 1/2 | 11 | 7 | 16 | 14 | 7005 | 6180 | 7150 | 31260 | 23660 | 42040 |
| | | | | | | | 31.21 | 27.43 | 31.85 | 139.24 | 105.39 | 187.26 |
| CCQ5-4SDS2.5 | 5 1/4 | 3 5/8 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 45775 | 37885 | — |
| | | | | | | | 32.85 | 29.04 | — | 203.90 | 168.75 | — |
| CCQ5-6SDS2.5 | 5 1/4 | 5 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 45775 | 37885 | — |
| | | | | | | | 32.85 | 29.04 | — | 203.90 | 168.75 | — |
| CCQ5-8SDS2.5 | 5 1/4 | 7 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 45775 | 37885 | — |
| | | | | | | | 32.85 | 29.04 | — | 203.90 | 168.75 | — |
| CCQ64SDS2.5 | 5 1/2 | 3 5/8 | 11 | 7 | 16 | 14 | 7005 | 6180 | 7150 | 49125 | 37175 | 63065 |
| | | | | | | | 31.21 | 27.43 | 31.85 | 218.82 | 165.59 | 280.91 |
| CCQ66SDS2.5 | 5 1/2 | 5 1/2 | 11 | 7 | 16 | 14 | 7005 | 6180 | 7150 | 49125 | 37175 | 63065 |
| | | | | | | | 31.21 | 27.43 | 31.85 | 218.82 | 165.59 | 280.91 |
| CCQ6-7.13SDS2.5 | 5 1/2 | 7 1/8 | 11 | 7 | 16 | 14 | 7005 | 6180 | 7150 | 49125 | 37175 | 63065 |
| | | | | | | | 31.21 | 27.43 | 31.85 | 218.82 | 165.59 | 280.91 |
| CCQ68SDS2.5 | 5 1/2 | 7 1/2 | 11 | 7 | 16 | 14 | 7005 | 6180 | 7150 | 49125 | 37175 | 63065 |
| | | | | | | | 31.21 | 27.43 | 31.85 | 218.82 | 165.59 | 280.91 |
| CCQ74SDS2.5 | 6 7/8 | 3 5/8 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 60290 | 49895 | — |
| | | | | | | | 32.85 | 29.04 | — | 268.55 | 222.25 | — |
| CCQ76SDS2.5 | 6 7/8 | 5 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 60290 | 49895 | — |
| | | | | | | | 32.85 | 29.04 | — | 268.55 | 222.25 | — |
| CCQ77SDS2.5 | 6 7/8 | 6 7/8 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 60290 | 49895 | — |
| | | | | | | | 32.85 | 29.04 | — | 268.55 | 222.25 | — |
| CCQ78SDS2.5 | 6 7/8 | 7 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 60290 | 49895 | — |
| | | | | | | | 32.85 | 29.04 | — | 268.55 | 222.25 | — |
| CCQ7-1-4SDS2.5 | 7 1/8 | 3 5/8 | 11 | 7 | 16 | 14 | 7375 | 6520 | 7535 | — | — | 84085 |
| | | | | | | | 32.85 | 29.04 | 33.56 | — | — | 374.54 |
| CCQ7-1-6SDS2.5 | 7 1/8 | 5 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | 7535 | — | — | 84085 |
| | | | | | | | 32.85 | 29.04 | 33.56 | — | — | 374.54 |
| CCQ7-1-7.1SDS2.5 | 7 1/8 | 7 1/8 | 11 | 7 | 16 | 14 | 7375 | 6520 | 7535 | — | — | 84085 |
| | | | | | | | 32.85 | 29.04 | 33.56 | — | — | 374.54 |
| CCQ7-1-8SDS2.5 | 7 1/8 | 7 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | 7535 | — | — | 84085 |
| | | | | | | | 32.85 | 29.04 | 33.56 | — | — | 374.54 |
| CCQ86SDS2.5 | 7 1/2 | 5 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 66990 | 50695 | — |
| | | | | | | | 32.85 | 29.04 | — | 298.40 | 225.81 | — |
| CCQ88SDS2.5 | 7 1/2 | 7 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 66990 | 50695 | — |
| | | | | | | | 32.85 | 29.04 | — | 298.40 | 225.81 | — |
| CCQ96SDS2.5 | 8 7/8 | 5 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 75920 | 62830 | — |
| | | | | | | | 32.85 | 29.04 | — | 338.17 | 279.87 | — |
| CCQ98SDS2.5 | 8 7/8 | 7 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 75920 | 62830 | — |
| | | | | | | | 32.85 | 29.04 | — | 338.17 | 279.87 | — |
| CCQ106SDS2.5 | 9 1/2 | 5 1/2 | 11 | 7 | 16 | 14 | 7375 | 6520 | — | 84855 | 64515 | — |
| | | | | | | | 32.85 | 29.04 | — | 377.97 | 287.37 | — |