

ECCL/CCC/CCT

Column Caps

Column-to-beam connections often have multiple beams framing on top of a column. L, T, and cross-column caps provide design solutions for this application.

Material: 7 gauge or 3 gauge depending on size

Finish: Simpson Strong-Tie gray paint, also available in HDG

Installation:

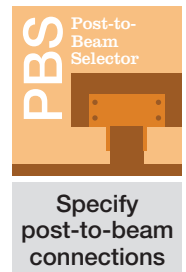
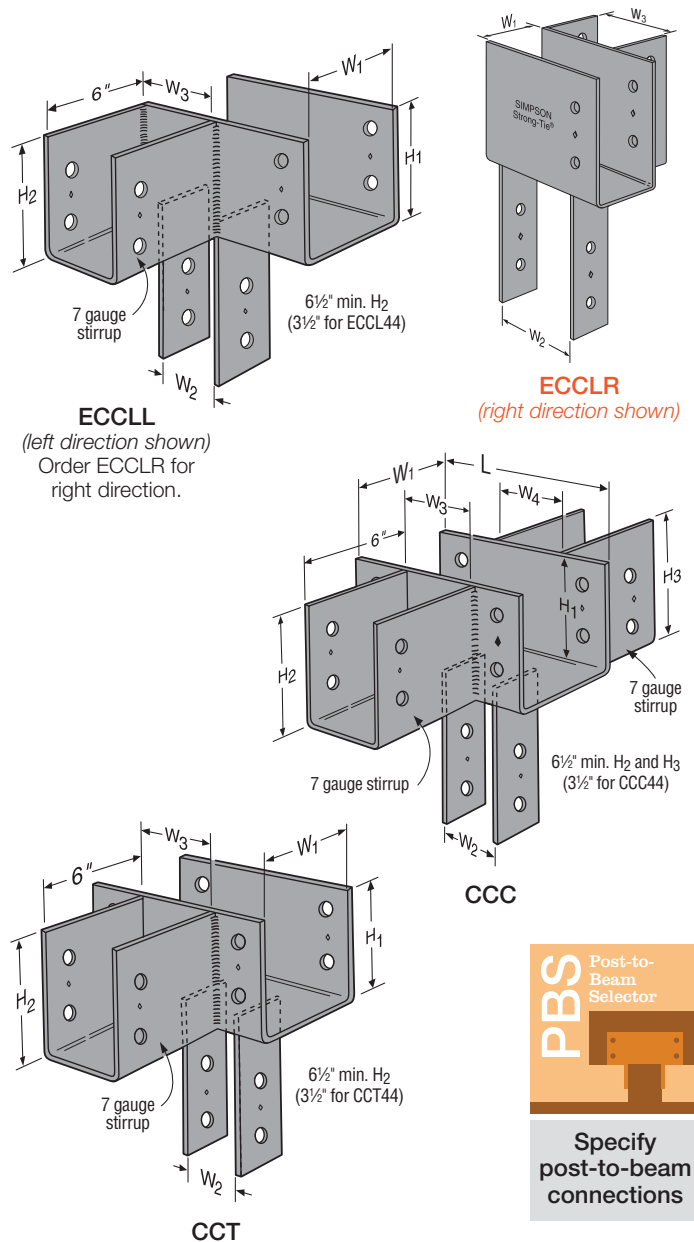
- Use all specified fasteners; see General Notes
- Bolt holes shall be a minimum of $\frac{1}{2}$ " to a maximum of $\frac{1}{16}$ " larger than bolt diameter (per 2015 and 2018 NDS 12.1.3.2)

Options:

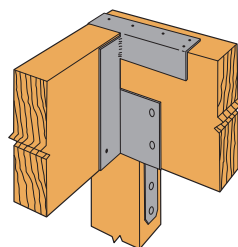
- Many combinations of beam and post sizes can be manufactured. Refer to worksheet T-C-CCLTC-WS at strongtie.com.
- The download shall be determined from the allowable loads for the unmodified product (see p. 91). The side beam can take a maximum of 40% of the download and shall not exceed 10,665 lb. The sum of the loads for the side beam(s) and main beam can not exceed the table load.
- Uplift loads do not apply for ECCL caps. For CCC and CCT, uplift loads from table apply for main beam only.
- The column width in the direction of the main beam width must be the same as the main beam width (W_1).
- Specify the stirrup height from the top of the cap. The minimum side stirrup heights (H_2 or H_3) is $6\frac{1}{2}$ " ($3\frac{1}{2}$ " for 44s).
- The L dimension may vary depending on the width of the side stirrup (W_3 or W_4).
- See p. 91 for other dimensions.
- Column caps may be ordered without the column straps for field welding to a steel column. Specify "No Straps" when ordering. Weld by designer. Full loads apply for the beam and the post cap.

Ordering Examples:

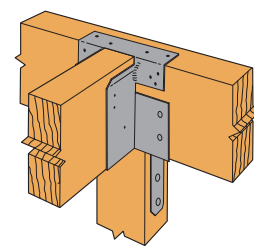
- A CCC66 with $W_3 = 5\frac{1}{2}$ ", H_2 and $H_3 = 6\frac{1}{2}$ " is a CC66 column cap with $5\frac{1}{2}$ " beams on each side with all beam seats flush.
- An ECCLR66 with $W_3 = 3\frac{5}{8}$ ", $H_2 = 7\frac{1}{2}$ " is an ECC66 end column cap with a 4x beam on the right side (specify direction left or right for stirrup) and stirrup seat 1" below the cap seat.



There are cost-effective alternatives for replacing column caps by using a combination of connectors. Designer must specify the options required. For column cap clearance, allow 3" for the hanger flange depth.



ECC and HWP
(top flange offset right)



CC and HWP

Ordering Multiple-Beam Column Caps

Ordering column caps incorporates several key steps that are important to ensure the highest allowable-load solution for your project. For more information, refer to worksheet T-C-CCLTC-WS for bolted connections and worksheet T-C-CCQLTC-WS for Quick Install connections. See p. 2 of these worksheets for model numbers for common post and beam width combinations. These worksheets are available at strongtie.com.