## Column Caps

Column-to-beam connections often have multiple beams framing on top of a column. $\mathrm{L}, \mathrm{T}$, 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 $1 / 32^{\prime \prime}$ to a maximum of $1 / 16^{\prime \prime}$ 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 $10,665 \mathrm{lb}$. 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 $\left(W_{1}\right)$.
- Specify the stirrup height from the top of the cap. The minimum side stirrup heights $\left(\mathrm{H}_{2}\right.$ or $\left.\mathrm{H}_{3}\right)$ is $61 / 2$ " ( $31 / 2$ " for 44 s ).
- The $L$ dimension may vary depending on the width of the side stirrup (W3 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 $W_{3}=5 \frac{112}{2}$ ", $\mathrm{H}_{2}$ and $\mathrm{H}_{3}=6 \frac{1}{2} / 2^{\prime \prime}$ is a CC66 column cap with $51 / 2^{\prime \prime}$ beams on each side with all beam seats flush.
- An ECCLR66 with $W_{3}=35 / 8^{\prime \prime}, \mathrm{H}_{2}=71 / 2^{\prime \prime}$ is an ECC66 end column cap with a $4 x$ beam on the right side (specify direction left or right for stirrup) and stirrup seat 1 " below the cap seat.

(right direction shown)

CCC


CCT

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 $3^{\prime \prime}$ for the hanger flange depth.


ECC and HWP
(top flange offset right)


## 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.

## Options for Multiple-Beam, Bolted Column Caps

## Instructions for Ordering Multi-Beam Column Caps:

1. Choose column cap style. Look at the configuration of the column caps to determine which style column cap you require. If you don't know which style column cap is required, refer to your plans to determine the correct configuration.
2. Determine column cap dimensions. Fill in the dimensions of the column cap on the worksheet. If you don't know the dimensions of the column cap, go directly to the Beam and Post Dimensions section.
3. Provide beam and post dimensions. The Beam and Post Dimensions section of this worksheet is required. Fill in all applicable dimensions in actual inches, not as nominal dimensions.
4. Determine beam orientation. Refer to your plans or check the configuration of the column cap you selected in order to determine the orientation of the beam. Check the box for the beam orientation that best describes your beam configuration: Beam B flush at bottom of Beam A; Beam B flush at both the top and bottom of Beam A; or Beam B flush at top of Beam A.
5. Check the box for the required style and strap orientation.
6. Select finish. Standard finish is Simpson Strong-Tie ${ }^{\circledR}$ gray paint, available in HDG (specify HDG).
7. Place order. Contact Simpson Strong-Tie for ordering information.

## Multiple Beam Column Caps



Beam Dimensions:
Provide dimensions in actual inches (not nominal dimensions).
Beam A: Width $\qquad$ Height $\qquad$
Beam B: Width $\qquad$ Height $\qquad$
Beam C: Width $\qquad$ Height $\qquad$

## Post Dimensions:

Post Size $\qquad$
If post is not square, specify width of post between the straps $\qquad$

## Column Cap Dimensions:

## Orientation of Beam Height

Refer to your plans to determine the correct orientation of your beam. Check the box for the orientation that best describes your beam configuration and ensure that the column cap dimensions are as follows:Standard Strap Orientation
$\qquad$ $\mathrm{H}_{1}=$ $\qquad$
Se
(See Wood Construction Connectors catalog for standard $\mathrm{H}_{1}$ dimension) $\mathrm{H}_{2}=$ $\qquad$
Post Dimensions:

$$
W_{2}=\quad \mathrm{H}_{3}=
$$

$\qquad$
$W_{1}, W_{3}$ and $W_{4}$ will typically be $1 / 8^{\prime \prime}-1 / 4$ " greater than beam widths. $W_{2}$ will typically be $0 "-1 / 8^{\prime \prime}$ greater than post width.Side Beam Flush at Bottom Extends Above Main Beam


Column Cap Dimensions: $\mathrm{H}_{2}=\mathrm{H}_{1}$

Column Cap
Dimensions: $\mathrm{H}_{2}=\mathrm{H}_{1}$

Side Beam Flush at Top Extends Below Main Beam


Column Cap Dimensions: $\mathrm{H}_{2}>\mathrm{H}_{1}$

For allowable loads, refer to the current Wood Construction Connectors catalog.

Column Cap Dimensions: $\mathrm{W}_{2} \leq \mathrm{W}_{1}$ *Not available for all models of column caps.


## Special-Order Worksheet

| Model | $\begin{gathered} W_{1} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{W}_{2} \\ \text { (in.) } \end{gathered}$ | $\begin{aligned} & \mathrm{W}_{3} \\ & \text { (in.) } \end{aligned}$ | $\begin{gathered} \mathrm{H}_{1} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{H}_{2} \\ \text { (in.) } \end{gathered}$ | Side Stirrup Direction |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ECCL31/4-4 | $31 / 4$ | 35/8 | Specify | $61 / 2$ | Specify | Specify Left or Right |
| ECCL3¼-6 | $31 / 4$ | $51 / 2$ |  | 61/2 |  |  |
| ECCL44 | 35/8 | 35/8 |  | 4 |  |  |
| ECCLL444 | 35/8 | 35/8 | 35/8 | 4 | 4 | Left |
| ECCLL444TC | 35/8 | 35/8 |  | $61 / 2$ | $61 / 2$ |  |
| ECCLR444 | 35/8 | 35/8 |  | 4 | 4 | Right |
| ECCLR444TC | 35/8 | 35/8 |  | $61 / 2$ | 61/2 |  |
| ECCL46 | 35/8 | $51 / 2$ | Specify |  | Specify | Specify Left or Right |
| ECCLL464 | 35/8 | 51/2 | 35/ |  | $61 / 2$ | Left |
| ECCLR464 | 35/8 | $51 / 2$ | 3\% |  | 61/2 | Right |
| ECCL5¼-4 | $51 / 4$ | 35/8 | Specify | 8 | Specify | Specify Left or Right |
| ECCL5¼-6 | $51 / 4$ | $51 / 2$ |  |  |  |  |
| ECCL5 $1 / 4-8$ | $51 / 4$ | $71 / 2$ |  |  |  |  |
| ECCL64 | $51 / 2$ | 35/8 |  | 61/2 |  |  |
| ECCL66 | $51 / 2$ | $51 / 2$ |  |  |  |  |
| ECCLL666 | $51 / 2$ | $51 / 2$ | $51 / 2$ |  | 6112 | Left |
| ECCLR666 | $51 / 2$ | $51 / 2$ |  |  |  | Right |
| ECCL68 | $51 / 2$ | $71 / 2$ | Specify |  | Specify | Specify Left or Right |
| ECCL71⁄8-4 | 71/8 | 35/8 |  | 8 |  |  |
| ECCL7 1 1/8-6 | 71/8 | $51 / 2$ |  |  |  |  |
| ECCL71/8-71/8 | 71/8 | 71/8 |  |  |  |  |
| ECCL76 | 67/8 | $51 / 2$ |  |  |  |  |
| ECCL77 | 67/8 | 67/8 |  |  |  |  |
| ECCL78 | 67/8 | $71 / 2$ |  |  |  |  |
| ECCL86 | $71 / 2$ | $51 / 2$ |  |  |  |  |
| ECCL88 | $71 / 2$ | $71 / 2$ |  |  |  |  |



ECCLL/ECCLR


CCC

| Model | $\mathrm{W}_{1}$ <br> (in.) | $W_{2}$ (in.) | $\mathrm{W}_{3}$ (in.) | $\mathrm{H}_{1}$ (in.) | $\begin{gathered} \mathrm{H}_{2} \\ \text { (in.) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CCT3¼-4 | $31 / 4$ | 35/8 | Specify |  | Specify |
| CCT3¼-6 | $31 / 4$ | $51 / 2$ |  | 61/2 |  |
| CCT44 | 35/8 | 35/8 |  | 4 |  |
| CCT46 | 35/8 | $51 / 2$ |  | $61 / 2$ |  |
| CCT5¼-4 | $51 / 4$ | 35/8 |  |  |  |
| CCT5¼-6 | $51 / 4$ | $51 / 2$ |  | 8 |  |
| CCT5¼-8 | $51 / 4$ | $71 / 2$ |  |  |  |
| CCT64 | $51 / 2$ | 35/8 |  |  |  |
| CCT66 | 51/2 | $51 / 2$ |  | $61 / 2$ |  |
| CCT68 | $51 / 2$ | $71 / 2$ |  |  |  |
| CCT71⁄8-4 | 71/8 | 35/8 |  | 8 |  |
| CCT71⁄2-6 | $71 / 8$ | $51 / 2$ |  |  |  |
| CCT71⁄8-71/8 | $71 / 8$ | $71 / 8$ |  |  |  |
| CCT76 | $67 / 8$ | $51 / 2$ |  |  |  |
| CCT77 | 67/8 | 67/8 |  |  |  |
| CCT78 | 67/8 | $71 / 2$ |  |  |  |
| CCT86 | $71 / 2$ | $51 / 2$ |  |  |  |
| CCT88 | 7112 | $71 / 2$ |  |  |  |

CCT

## Options for Multiple-Beam Column Caps

## Instructions for Ordering Multi-Beam Column Caps:

1. Choose column cap style. Look at the configuration of the column caps to determine which style column cap you require. If you don't know which style column cap is required, refer to your plans to determine the correct configuration.
2. Determine column cap dimensions. Fill in the dimensions of the column cap on the worksheet. If you don't know the dimensions of the column cap, go directly to the Beam and Post Dimensions section.
3. Provide beam and post dimensions. The Beam and Post Dimensions section of this worksheet is required. Fill in all applicable dimensions in actual inches, not as nominal dimensions.
4. Determine beam orientation. Refer to your plans or check the configuration of the column cap you selected in order to determine the orientation of the beam. Check the box for the beam orientation that best describes your beam configuration: Beam B flush at bottom of Beam A; Beam B flush at both the top and bottom of Beam A; or Beam B flush at top of Beam A.
5. Check the box for the required style and strap orientation.
6. Select finish. Standard finish is Simpson Strong-Tie ${ }^{\circledR}$ gray paint, available in HDG (specify HDG).
7. Place order. Contact Simpson Strong-Tie for ordering information.

## Multiple Beam Column Caps

$\square$ ECCLLQ $\square$ ECCLRQ


Beam Dimensions:
Provide dimensions in actual inches (not nominal dimensions).
Beam A: Width $\qquad$ Height $\qquad$
Beam B: Width $\qquad$ Height $\qquad$
Beam C: Width $\qquad$ Height $\qquad$

## Post Dimensions:

Post Size
If post is not square, specify width of post between the straps $\qquad$
$\square \operatorname{CCCQ}$



## Column Cap Dimensions:

$\mathrm{w}_{1}=$ $\qquad$ $\mathrm{H}_{1}=7^{\prime \prime}$
$\mathrm{W}_{3}=$ $\qquad$ $\mathrm{H}_{2}=$
$\mathrm{W}_{4}=$ $\qquad$ $\mathrm{H}_{3}=$
$\qquad$
$\qquad$

## Post Dimensions:

$\mathrm{W}_{2}=$ $\qquad$
$W_{1}, W_{3}$ and $W_{4}$ will typically be $1 / 8-1 / 4 / 4$ greater than beam widths. $\mathrm{W}_{2}$ will typically be 0 " $-1 / 8$ " greater than post width.

## Orientation of Beam Height

Refer to your plans to determine the correct orientation of your beam. Check the box for the orientation that best describes your beam configuration and ensure that the column cap dimensions are as follows:Side Beam Flush at Bottom Extends Above Main Beam

Column Cap Dimensions: $\mathrm{H}_{2}=\mathrm{H}_{1}$


Column Cap
Dimensions: $\mathrm{H}_{2}=\mathrm{H}_{1}$Side Beam Flush at Top Extends Below Main Beam


Column Cap Dimensions: $\mathrm{H}_{2}>\mathrm{H}_{1}$

For allowable loads, refer to the current Wood Construction Connectors catalog.Standard Strap Orientation

Column Cap Dimensions: $\mathrm{W}_{2} \leq \mathrm{W}_{1}$ *Not available for all models of column caps.


Straps Rotated*No Straps

## Special-Order Worksheet

## Options for Multiple-Beam Column Caps

| Model | $\begin{aligned} & \mathrm{W}_{1} \\ & \text { (in.) } \end{aligned}$ | $\begin{gathered} \mathrm{W}_{2} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{W}_{3} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{H}_{1} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{H}_{2} \\ \text { (in.) } \end{gathered}$ | Side Stirrup Direction |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ECCLQ3-4SDS | $31 / 4$ | 35/8 |  |  |  |  |
| ECCLQ3-6SDS | $31 / 4$ | $51 / 2$ | Specify |  | Specify | Specify Left or Right |
| ECCLQ44SDS | 35/8 | 35/8 |  |  |  |  |
| ECCLLQ444SDS | 35/8 | 35/8 | 35/ |  | 7 | Left |
| ECCLRQ444SDS | 35/8 | 35/8 | 3\% |  | 7 | Right |
| ECCLQ46SDS | 35/8 | $51 / 2$ | Specify |  | Specify | Specify Left or Right |
| ECCLLQ464SDS | 35/8 | $51 / 2$ | 35/8 |  | 7 | Left |
| ECCLRQ464SDS | 35/8 | $51 / 2$ | 3\% |  | 7 | Right |
| ECCLQ48SDS | 35/8 | $71 / 2$ |  |  |  |  |
| ECCLQ5-4SDS | $51 / 4$ | 35/8 |  |  |  |  |
| ECCLQ5-6SDS | $51 / 4$ | $51 / 2$ | Specify |  | Specify | Specify Left or Right |
| ECCLQ5-8SDS | $51 / 4$ | $71 / 2$ | Specity |  | Specity | Specity Left or Right |
| ECCLQ64SDS | $51 / 2$ | 35/8 |  | 7 |  |  |
| ECCLQ66SDS | $51 / 2$ | $51 / 2$ |  |  |  |  |
| ECCLLQ666SDS | $51 / 2$ | $51 / 2$ | $51 / 2$ |  | 7 | Left |
| ECCLRQ666SDS | $51 / 2$ | $51 / 2$ |  |  | 7 | Right |
| ECCLQ7.1-4SDS | $71 / 8$ | 35/8 |  |  |  |  |
| ECCLQ7.1-6SDS | 71/8 | $51 / 2$ |  |  |  |  |
| ECCLQ7.1-7.1SDS | $71 / 8$ | $71 / 8$ |  |  |  |  |
| ECCLQ74SDS | 67/8 | 35/8 |  |  |  |  |
| ECCLQ76SDS | 67/8 | $51 / 2$ | Specify |  | Specify | Specify Left or Right |
| ECCLQ77SDS | 67/8 | 67/8 |  |  |  |  |
| ECCLQ78SDS | 67/8 | $71 / 2$ |  |  |  |  |
| ECCLQ86SDS | $71 / 2$ | $51 / 2$ |  |  |  |  |
| ECCLQ88SDS | 7112 | $71 / 2$ |  |  |  |  |


| Model | $\begin{gathered} \mathrm{W}_{1} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{W}_{2} \\ \text { (in.) } \end{gathered}$ | $\stackrel{\mathrm{W}_{\text {(in.) }}}{ }$ | $\underset{\text { (in.) }}{\mathrm{W}_{4}}$ | $\underset{\text { (in.) }}{\mathrm{H}_{1}}$ | $\underset{\text { (in.) }}{\mathrm{H}_{2}}$ | $\xrightarrow[\text { (in.) }]{\mathrm{H}_{3}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CCCQ3-6SDS | 3114 | $51 / 2$ | Specity | Specify | 7 | Specify | Specify |
| CCCQ44SDS | 35\% | 35/8 |  |  |  |  |  |
| CCCQ46SDS | 35/8 | $51 / 2$ |  |  |  |  |  |
| CCCQ5-4SDS | $51 / 4$ | 35\% |  |  |  |  |  |
| CCCQ5-6SDS | $51 / 4$ | $51 / 2$ |  |  |  |  |  |
| CCCQ5-8SDS | $51 / 4$ | 71/2 |  |  |  |  |  |
| CCCQ64SDS | $51 / 2$ | 35/8 |  |  |  |  |  |
| CCCQ66SDS | $51 / 2$ | $51 / 2$ |  |  |  |  |  |
| CCCQ68SDS | $51 / 2$ | $71 / 2$ |  |  |  |  |  |
| CCCQ7.1-4SDS | 71188 | 35/8 |  |  |  |  |  |
| CCCQ7.1-6SDS | 71188 | $51 / 2$ |  |  |  |  |  |
| CCCQ76SDS | 67/8 | $51 / 2$ |  |  |  |  |  |
| CCCQ77SDS | $67 / 8$ | 67/8 |  |  |  |  |  |
| CCCQ78SDS | 67/8 | 71/2 |  |  |  |  |  |
| CCCQ86SDS | $71 / 2$ | $51 / 2$ |  |  |  |  |  |
| CCCQ88SDS | $711 / 2$ | $71 / 2$ |  |  |  |  |  |



| Model | $\begin{gathered} \mathrm{W}_{1} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{W}_{2} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{W}_{3} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{H}_{1} \\ \text { (in.) } \end{gathered}$ | $\begin{gathered} \mathrm{H}_{2} \\ \text { (in.) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CCTQ3-4SDS | $31 / 4$ | 35/8 | Specify | 7 | Specify |
| CCTQ3-6SDS | $31 / 4$ | $51 / 2$ |  |  |  |
| CCTQ44SDS | 35/8 | 35/8 |  |  |  |
| CCTQ46SDS | 35/8 | $51 / 2$ |  |  |  |
| CCTQ5-4SDS | $51 / 4$ | 35/8 |  |  |  |
| CCTQ5-6SDS | $51 / 4$ | $51 / 2$ |  |  |  |
| CCTQ5-8SDS | $51 / 4$ | $71 / 2$ |  |  |  |
| CCTQ64SDS | $51 / 2$ | 35/8 |  |  |  |
| CCTQ66SDS | $51 / 2$ | $51 / 2$ |  |  |  |
| CCTQ68SDS | $51 / 2$ | $71 / 2$ |  |  |  |
| CCTQ7.1-4SDS | $71 / 8$ | 35/8 |  |  |  |
| CCTQ7.1-6SDS | $71 / 8$ | $51 / 2$ |  |  |  |
| CCTQ7.1-7.1SDS | $71 / 8$ | $71 / 8$ |  |  |  |
| CCTQ76SDS | 67/8 | $51 / 2$ |  |  |  |
| CCTQ77SDS | 67/8 | 67/8 |  |  |  |
| CCTQ78SDS | 67/8 | $71 / 2$ |  |  |  |
| CCTQ86SDS | $71 / 2$ | $51 / 2$ |  |  |  |
| CCTQ88SDS | $71 / 2$ | $71 / 2$ |  |  |  |



CCTQ

