

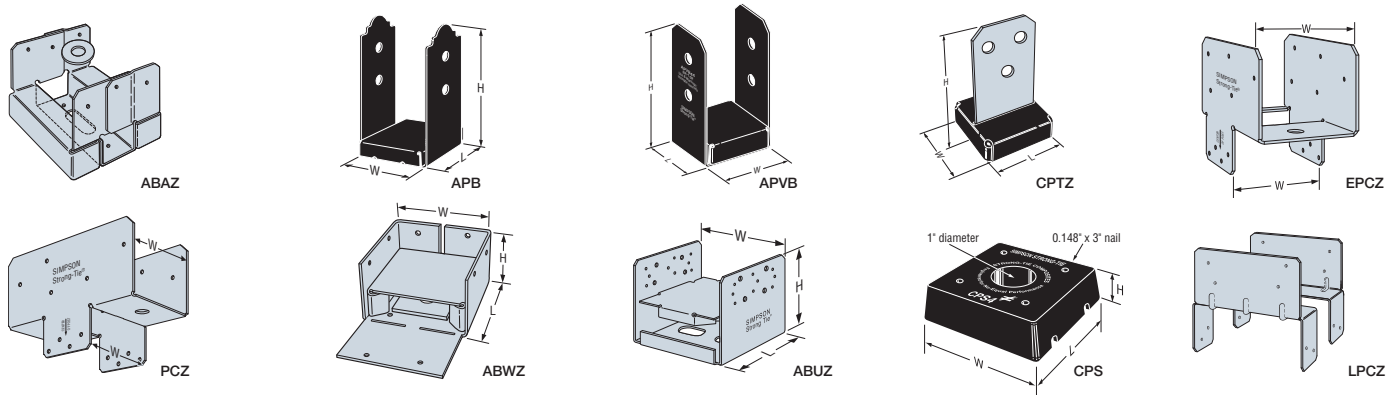
Hollowed Out and Loaded Up



Load-Rated Solutions for Securing Laminated Timber Columns from Culpeper



With the rising popularity of hollow columns in residential construction, Simpson Strong-Tie recently completed an extensive test program with Culpeper Columns. Users of these hollow columns can transfer uplift and download with confidence, knowing the standard post bases and caps listed here have been fully tested and assigned load values for this type of column.



Simpson Strong-Tie® Post Bases Tested with Culpeper Columns

| Model No. | Culpeper Column Size | Dimensions (in.) | | | Fasteners (in.) | | Allowable Loads (lb.) | |
|-----------|----------------------|--------------------------------|--------------------------------|--------------------------------|-----------------|---------------------------|-----------------------|----------------|
| | | W | L | H | Anchor Dia. | Post | Uplift (160) | Download (100) |
| ABA44Z | 4x4 | 3 ³ / ₁₆ | 3 ³ / ₁₆ | 3 ¹ / ₁₆ | 1/2 | (6) 0.148 x 1 1/2 | 490 | 5,100 |
| ABW44Z | | 3 ³ / ₁₆ | 3 ³ / ₁₆ | 2 ¹ / ₄ | 1/2 | (8) 0.148 x 1 1/2 | 740 | 5,865 |
| ABU44Z | | 3 ³ / ₁₆ | 3 | 5 1/2 | 5/8 | (12) 0.148 x 1 1/2 | 1,205 | 7,400 |
| APB44 | | 3 ³ / ₁₆ | 3 | 7 | 5/8 | (4) SDWS22312DBB w/ STN22 | 1,015 | 6,240 |
| APVB44 | | 3 ³ / ₁₆ | 3 | 6 3/4 | 5/8 | (4) SDWS22312DBB w/ STN22 | 1,015 | 6,240 |
| CPT44Z | | 3 1/2 | 3 1/2 | 5 3/4 | (2) 1/2 | (3) 1/2 x 2 3/4 dowel | 2,455 | 6,500 |
| ABA66Z | 6x6 | 5 1/2 | 5 3/8 | 3 1/8 | 5/8 | (8) 0.162 x 3 1/2 | 740 | 7,070 |
| ABU5-5Z | | 5 1/4 | 5 | 6 1/16 | 5/8 | (12) 0.162 x 3 1/2 | 2,070 | 10,570 |
| ABU66Z | | 5 1/2 | 5 | 6 1/16 | 5/8 | (12) 0.148 x 3 | 1,200 | 12,770 |
| APB66 | | 5 1/2 | 5 | 7 1/2 | 5/8 | (4) SDWS22512DBB w/ STN22 | 1,165 | 7,210 |
| APVB66 | | 5 1/2 | 5 | 6 13/16 | 5/8 | (4) SDWS22512DBB w/ STN22 | 1,165 | 7,210 |
| CPT66Z | | 5 3/8 | 5 3/8 | 5 3/4 | (2) 1/2 | (3) 1/2 x 4 3/4 dowel | 2,805 | 7,720 |
| ABW7-7Z | 8x8 | 7 5/16 | 7 5/16 | 3 | 1/2 | (12) 0.148 x 3 | 610 | 14,530 |
| ABU88Z | | 7 1/2 | 7 | 7 | (2) 5/8 | (18) 0.162 x 3 1/2 | 2,165 | 21,430 |
| APB88 | | 7 1/2 | 7 | 10 9/16 | (2) 5/8 | (8) SDWS22312DBB w/ STN22 | 1,360 | 14,430 |
| APVB88 | | 7 1/2 | 7 | 9 7/8 | (2) 5/8 | (8) SDWS22312DBB w/ STN22 | 1,360 | 14,430 |
| ABU1010Z | 10x10 | 9 1/2 | 9 | 7 1/4 | (2) 5/8 | (22) 0.162 x 3 1/2 | 1,995 | 15,565 |
| APB1010 | | 9 1/2 | 9 | 11 | (2) 5/8 | (8) SDWS22312DBB w/ STN22 | 1,900 | 19,730 |
| APVB1010 | | 9 1/2 | 9 | 9 3/4 | (2) 5/8 | (8) SDWS22312DBB w/ STN22 | 1,900 | 19,730 |
| ABU1212Z | | 11 1/2 | 11 | 7 1/4 | (2) 5/8 | (22) 0.162 x 3 1/2 | 2,170 | 27,240 |

- Uplift loads have been increased for wind or seismic with no further increase allowed; reduce where other loads govern.
- Downloads may not be increased for short-term loading.
- Specifier to design concrete foundation and anchorage for uplift capacity.
- ABU allowable loads listed are for applications with nails only. Bolted connections have not been evaluated.
- Download and uplift loads shall be reduced where limited by the capacity of the column. Contact Culpeper for column capacities.
- Culpeper column net outside dimensions: 4x4 = 3 1/8" x 3 1/8", 6x6 = 5 1/8" x 5 1/8", 8x8 = 6 3/4" x 6 3/4", 10x10 = 8 3/4" x 8 3/4", 12x12 = 10 3/4" x 10 3/4".
- Fasteners:** Nail dimensions in the table are listed diameter by length. SDWS22312DBB = 0.22" dia. x 3 1/2" long inserted through STN22 washer, SDWS22512DBB = 0.22" dia. x 5 1/2" long inserted through STN22 washer. Dowels are provided with CPTZ.

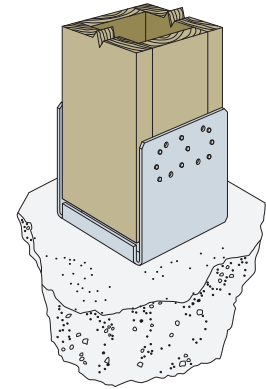
Tested to Work with Culpeper Columns



Simpson Strong-Tie® Standoff Bases Tested with Culpeper Columns

| Model No. | Culpeper Column Size | Dimensions (in.) | | | Fasteners (in.) | | Allowable Loads (lb.) Uplift (160) |
|-----------|----------------------|------------------|----|---|-----------------|---------------|---------------------------------------|
| | | W | L | H | Anchor Dia. | Post | |
| CPS4 | 4x4 | 3¼ | 3¼ | 1 | ⅝ | (4) 0.148 x 3 | 4,540 |
| CPS6 | 6x6 | 5⅝ | 5⅝ | 1 | ⅝ | (4) 0.148 x 3 | 7,180 |
| CPS10 | 10x10 | 9 | 9¼ | 1 | ⅝ | (4) 0.148 x 3 | 11,970 |
| CPS12 | 12x12 | 11 | 11 | 1 | ⅝ | (4) 0.148 x 3 | 11,805 |

- Downloads may not be increased for short-term loading. No uplift loads apply.
- Specifier to design positive attachment to foundation.
- Downloads shall be reduced where limited by the capacity of the post. Contact Culpeper for column capacities.
- Culpeper column net outside dimensions: 4x4 = 3⅝" x 3⅝", 6x6 = 5⅝" x 5⅝", 10x10 = 8¾" x 8¾", 12x12 = 10¾" x 10¾".
- Fasteners:** Nail dimensions in the table are listed diameter by length.



ABU88Z Installed onto 8x8 Culpeper Column

Simpson Strong-Tie Post Caps Tested with Culpeper Columns

| Model No. | Culpeper Column Size | W (in.) | Fasteners (in.) | | Allowable Uplift Load (lb.) (160) | |
|--------------|----------------------|---------|-----------------|----------------|-----------------------------------|-------|
| | | | Post | Beam | PC | EPC |
| PC4Z / EPC4Z | 4x4 | 3⅝ | (8) 0.148 x 3 | (10) 0.148 x 3 | 940 | 940 |
| | | | (8) SD9112 | (10) SD9112 | 1,480 | 1,130 |
| PC6Z / EPC6Z | 6x6 | 5½ | (8) 0.148 x 3 | (10) 0.148 x 3 | 930 | 865 |
| | | | (8) SD9112 | (10) SD9112 | 1,480 | 1,130 |
| PC8Z / EPC8Z | 8x8 | 7½ | (8) 0.148 x 3 | (10) 0.148 x 3 | 725 | 690 |
| | | | (8) SD9112 | (10) SD9112 | 1,480 | 1,130 |

Simpson Strong-Tie Post Caps Tested with Culpeper Columns

| Model No. | Culpeper Column Size | W (in.) | Fasteners (in.) | | Allowable Uplift Load (lb.) (160) |
|-----------|----------------------|---------|-----------------|----------------|-----------------------------------|
| | | | Post | Beam | |
| LPC4Z | 4x4 | 3⅝ | (8) 0.148 x 1½ | (8) 0.162 x 3½ | 580 |
| LPC6Z | 6x6 | 5⅝ | (8) 0.148 x 3 | (8) 0.162 x 3½ | 710 |

- Allowable uplift loads have been increased for wind or seismic with no further increase allowed; reduce where other loads govern.
- Lateral loads for post caps with Culpeper Columns have not been evaluated.
- Uplift loads do not apply to splice conditions. Spliced conditions must be detailed by the designer to transfer tension loads between spliced members by means other than the post cap.
- Uplift loads shall be reduced where limited by the capacity of the column. Contact Culpeper for column capacities.
- Culpeper column net outside dimensions: 4x4 = 3⅝" x 3⅝", 6x6 = 5⅝" x 5⅝", 8x8 = 6¾" x 6¾", 10x10 = 8¾" x 8¾", 12x12 = 10¾" x 10¾".
- Fasteners:** Nail dimensions in the table are listed diameter by length. SD9112 = 0.131" dia. x 1½" long.