

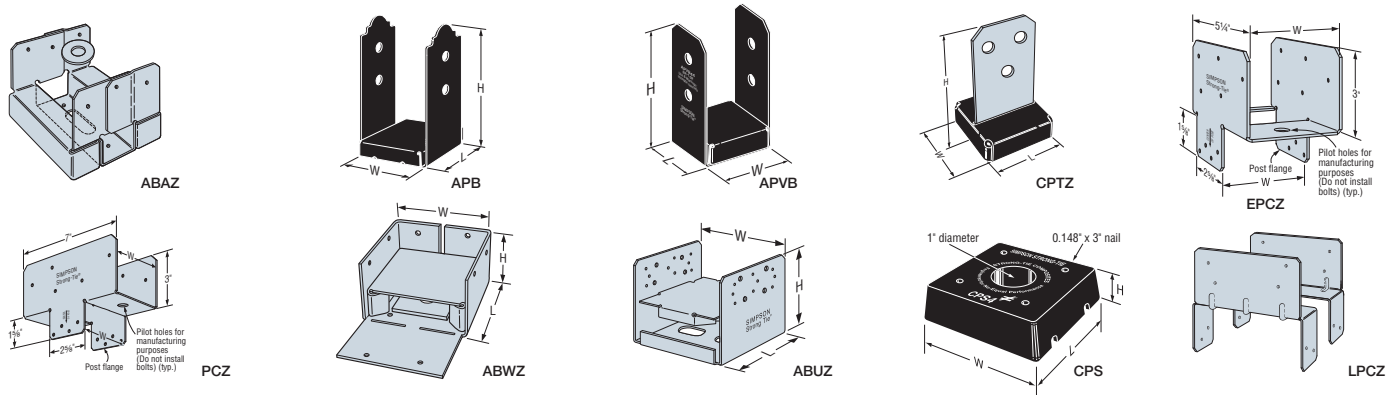
Hollowed Out and Loaded Up



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	6x6	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		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		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	12x12	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.

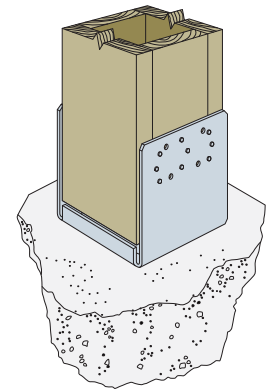
Tested to Work with Culpeper Columns



Simpson Strong-Tie® Standoff Bases Tested with Culpeper Columns

Model No.	Culpeper Column Size	Dimensions (in.)			Fasteners (in.)		Allowable Download (lb.) (100)
		W	L	H	Anchor Dia.	Post	
CPS4-R	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

1. Downloads may not be increased for short-term loading. No uplift loads apply.
2. Specifier to design positive attachment to foundation.
3. Downloads shall be reduced where limited by the capacity of the post. Contact Culpeper for column capacities.
4. Culpeper column net outside dimensions: 4x4 = 3⅝" x 3⅝", 6x6 = 5⅝" x 5⅝", 10x10 = 8¾" x 8¾", 12x12 = 10¾" x 10¾".
5. **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

1. Allowable uplift loads have been increased for wind or seismic with no further increase allowed; reduce where other loads govern.
2. Lateral loads for post caps with Culpeper Columns have not been evaluated.
3. 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.
4. Uplift loads shall be reduced where limited by the capacity of the column. Contact Culpeper for column capacities.
5. 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".
6. **Fasteners:** Nail dimensions in the table are listed diameter by length. SD9112 = 0.131" dia. x 1½" long.