CPTZ Concealed Post Tie

SIMPSON Strong-Tie

The CPTZ concealed post base provides a clean, concealed look while providing a 1" standoff height above concrete. The 1" standoff reduces the potential for decay at the post end and satisfies code requirements for posts that are exposed to weather, water splash or in basements.

- The CPTZ is tested and load-rated for uplift, download and lateral load.
- · Simpson Strong-Tie saves installers time by providing all the necessary components to make the connection in one box.
- The CPTZ anchorage can either be cast-in-place or retrofitted with adhesive or mechanical anchors.
- · Solutions have been calculated per ACI 318, Appendix D to determine their allowable load in different concrete configurations.

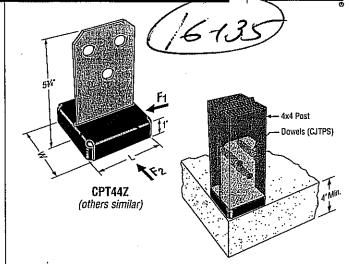
MATERIAL: See table below

FINISH: Knife plate, washers and standoff base are ZMAX®-galvanized steel. The standoff base has an additional textured, flat black powder coat finish for aesthetic purposes. The ½ diameter drift dowels are mechanically galvanized in accordance with ASTM B695, class 55. If substituting 1/2" diameter machine bolts, a hot-dip galvanized finish is recommended.

INSTALLATION: • Use all specified fasteners. See General Notes.

- More extensive installation instructions are available through our Literature Library app or by visiting www.strongtle.com.
- · Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non-braced, or non-top-supported installations.

CODES: See page 12 for Code Reference Key Chart.



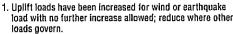
Typical CPT44Z Installation

CPT44Z = 19/15"

CPT66Z and CPT88Z = 21/4"

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	Post	Race	Knife	Dimensions (in.)				Fasteners		Allowable Lo		iads (DF/SP)		Code
	No.	Size	Base (Ga)	Plate (Ga)	. W	F	Anc Otv.	hor Dia.	Otv.	Post Type ^a	Uplift (160)	Down (100)	(10) (10)	F ₂ (160)	Ref.
_	007447	4x4,	40	40	014	01/				1/2 x 21/4 dowel	3035			ac 13/154 (1.2.4) NSC	15, 8, 55,
īss.	CPT44Z	RGH 4x4	12	10	31/2	31/2	2	1/2	3	1/2" MB	3350	11455	600	605	1.0 4.6-0
	CPT66Z	6x6,	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	10	′5¾	53/a	2	1/4	q	1/2 x 43/4 dowel	4430	21375	656	1025	13, F1
	Of 1002	RGH 6x6	12.		.5 /8	7		See Age		√2 MB	4475		30.44		
	CPT88Z	8x8,	- 12	10	71/4	71/4	2	1/2	3	1/2 x 43/4 dowel	3625	22805	740	1080	
	OF 100Z	RGH 8x8	- 12,	i	1 74	1 74	-	/2		1/2" MB	4475	22000	140	, 500	



- 2. Downloads may not be increased for short-term loading and shall not exceed the post capacity. See pages 245-246 for common post capacities.
- 3. CPTZs are supplied with (3) $\frac{1}{2}$ diameter dowel pins.

Alternäte 1/2" diameter hex or square head machine bolts may be used for loads listed.

4. Lag or carriage bolts are not permitted. 5. 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 dowel or bolt installation into the wide face.

Post

111/15

Edge

Edge

Post CPT44Z = 19/16" 111/16 CPT66Z and CPT88Z = 21/3 CPT44Z = 1CPT66Z = 2" -CPT88Z = 2% **CPTZ Knife Plate** CPT88Z = 21/2* Corner Flush Edge Corner Near Edge (Away from edge similar)

CPTZ Anchorage Using SET-XP® Anchoring Adhesive

Constitutes	100000000000000000000000000000000000000	224500G	Szeciel Glésia	lowable Upli	1692399538						
Model*	Embed:	Edge Distance	Anchorage								
, No	差(in.)3%	A1.0522.4N.1.14	Uncracked	#CPTZ							
A SERVICE OF	distriction.	Trees direc		Cracked	radioa de la filo						
Corner – Flush Edge											
CPT44Z	21/4		505	405	3035						
CPT66Z	27/		580	465	4430						
CPT88Z	21/4	– ,	625	500	3625						
Corner – Near Edge											
CPT44Z	5	4	1480	1185	3035						
CPT66Z	2 5 A	6 × 5 × ×	∌-2025 /≛	:.:d620	4430 -						
CPT88Z	5	6	2430	1945	3625						
Corner – Away from Edge											
CPT44Z	6	9	4005	3205	3035						
CPT66Z	.71/2	11/4	5440	-4350	4430						
CPT88Z	71/2	1114	5440	4350	3625						
	10	" Diameter	Circular Ped	estai							
CPT44Z	5	4	1560	1245	3035						
CPT66Z.	5.5	31/4	1460	1165	4430						
<u> </u>	12	" Diameter	Circular Ped	estal							
CPT44Z	5	5	2025	1620	3035						

1935

1935

43/4

43/4

5

1550

1550

4430

3625

1. Allowable uplift loads are calculated per ACI 318-11. Appendix D considering cracked and uncracked concrete and are qualified for Wind and Seismic Design Categories A & B. No further increases allowed.

CPTZ Knife Plate

- 2. Edge distance is measured from the center line of the nearest anchor bolt to the edge of concrete. 3. Foundation dimensions are for anchorage only. Foundation design by others. Refer to ACI318-11.
- 4. Lateral loads (F1 = F2) for Corner Flush Edge conditions are CPT44Z = 395 lbs. CPT66Z = 570 lbs., CPT88Z = 740 lbs. For all other installations using CPTZ with SET-XP® anchoring adhesive, use the allowable loads from the CPTZ table above.

5. Concrete shall have a minimum compressive strength, f'c = 2500 psi...





CPT66Z

CPT88Z