

## CPS/PBV

## Standoff Bases

The PBV is a hidden standoff post base. Two different shapes fit a variety of posts sizes.

The CPS is a composite plastic standoff designed for increased concrete surface area.

**Material:** PBV — 14 gauge galvanized steel;  
CPS — engineered composite polymer

**Finish:** Black powder coat or galvanized

**To Order:** For black powder coat, order PBV6PC or PBV10PC. For galvanized coating, order PBV6 or PBV10.

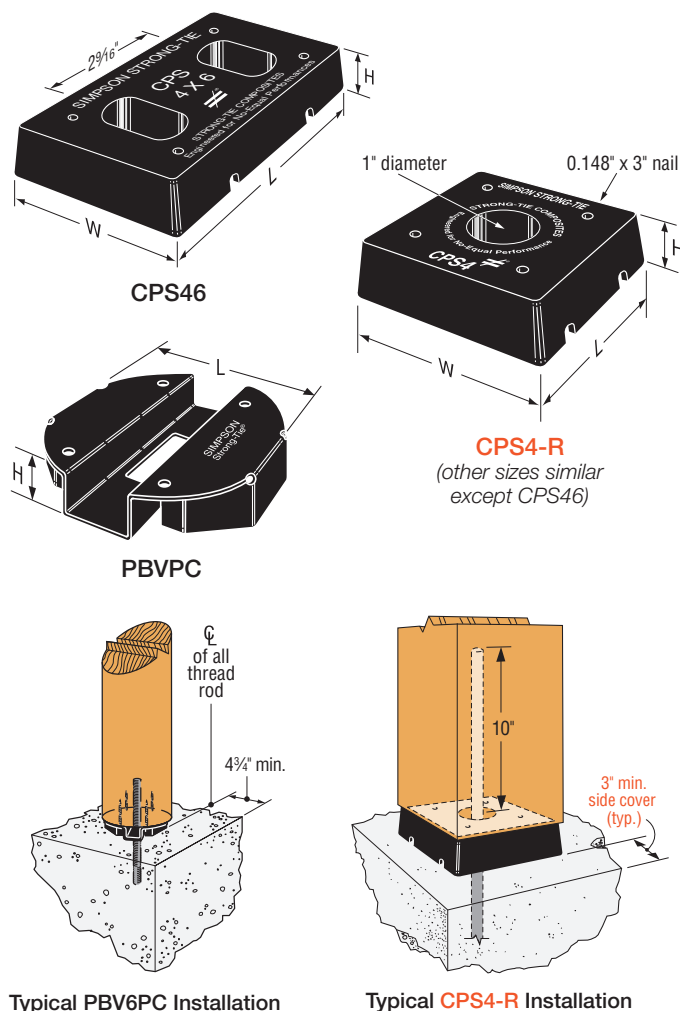
**Installation:****PBV and CPS****Post:**

- Drill a  $\frac{3}{4}$ " diameter hole, 10" into the center of the post.
- Clean out dust. Fill hole halfway with Simpson Strong-Tie® SET-3G® epoxy anchoring adhesive.
- Insert all-thread rod and allow epoxy to set and cure.
- Secure standoff to post using four 0.148" x 3" nails except PBV which uses four Strong-Drive® SDS Heavy-Duty Connector screws (sold separately).

**Concrete:**

- Drill a  $\frac{3}{4}$ " diameter hole per anchor design (see footnote 2 below).
- Clean out dust. Fill hole halfway with Simpson Strong-Tie SET-3G epoxy anchoring adhesive. Insert post subassembly into hole and allow epoxy to set and cure.
- Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non-top-supported installations (such as fences or unbraced carports).

**Codes:** See p. 11 for Code Reference Key Chart



These products are made from non-corrosive materials.

Model No.	Post or Column Size	Dimensions (in.)			Fasteners (in.)		Allowable Loads		Code Ref.	
		L	W	H	Post	Anchor Bolt	Uplift (160)	Down (100)		
CPS4-R	4x4	3 $\frac{1}{4}$	3 $\frac{1}{4}$	1	(4) 0.148 x 3	$\frac{5}{8}$	4,490	5,775	—	
CPS46	4x6	5 $\frac{5}{16}$	3 $\frac{5}{16}$	1	(4) 0.148 x 3	(2) $\frac{5}{8}$	4,490	5,925		
CPS5	5x5	4 $\frac{1}{8}$	4 $\frac{1}{8}$	1	(4) 0.148 x 3	$\frac{5}{8}$	4,490	5,925		
CPS6	6x6	5 $\frac{5}{16}$	5 $\frac{5}{16}$	1	(4) 0.148 x 3	$\frac{5}{8}$	4,490	9,355		
CPS7	8x8	7 $\frac{1}{4}$	7 $\frac{1}{4}$	1 $\frac{1}{4}$	(4) 0.148 x 3	$\frac{5}{8}$	4,490	10,335		
CPS10	10x10	9 $\frac{1}{4}$	9	1	(4) 0.148 x 3	$\frac{5}{8}$	4,490	19,135		
CPS12	12x12	11	11	1	(4) 0.148 x 3	$\frac{5}{8}$	4,490	22,870		
PBV6PC	6" dia.	5 $\frac{1}{4}$	—	1	(4) $\frac{1}{4}$ x 3 SDS	$\frac{5}{8}$	3,800	8,255		IBC, FL, LA
PBV10PC	10" dia.	9 $\frac{3}{8}$	—	1	(4) $\frac{1}{4}$ x 3 SDS	$\frac{5}{8}$	3,800	21,435		

1. Allowable uplift load capacities are for solid sawn posts with a specific gravity of 0.36 minimum — except the PBV, which is based on round "Viga" (ponderosa pine) wood posts.
2. All allowable uplift loads are based on a lowest ultimate load from testing divided by a safety factor of 4. Concrete anchorage to be designed by others; refer to the Simpson Strong-Tie *Anchoring, Fastening, Restoration and Strengthening Systems for Concrete and Masonry* catalog at [strongtie.com](http://strongtie.com). Uplift loads shall not exceed those shown in the table.
3. Downloads are calculated based on the standoff bearing area and a concrete strength of 2,500 psi — except the PBV, which is based on the wood's bearing strength (700 psi for ponderosa pine).
4. Allowable loads may not be increased for the duration of the load.
5. **Fasteners:** Nail dimensions are listed diameter by length. SDS screws are Simpson Strong-Tie® Strong-Drive SDS Heavy-Duty Connector screws. See pp. 21–22 for fastener information.
6. Fasteners sold separately.

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