

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: PBV — Galvanized with black powder coat

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

Installation:

PBV and CPS

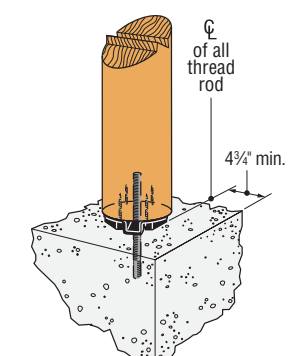
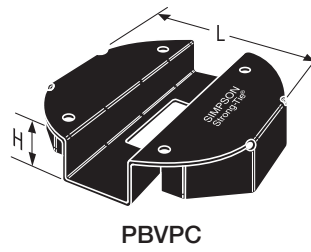
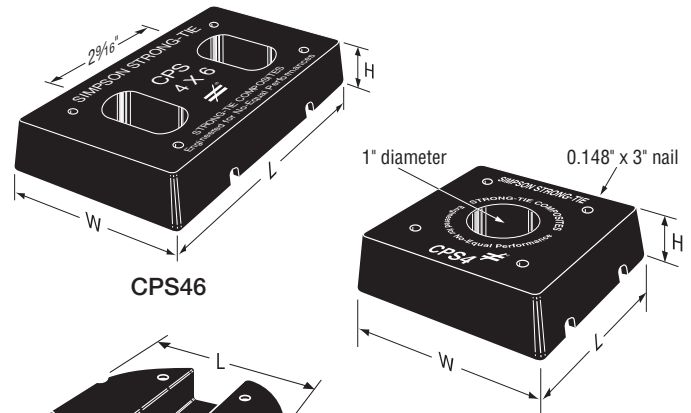
Post:

- Drill a 3/4" diameter hole, 10" into the center of the post.
- Clean out dust. Fill hole halfway with Simpson Strong-Tie SET-3G™ 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).

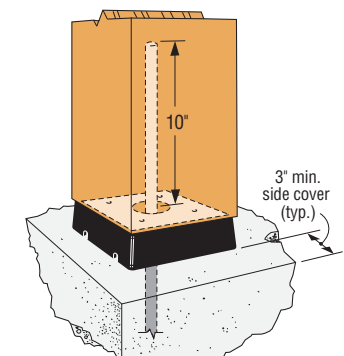
Concrete:

- Drill a 3/4" diameter hole per anchor design (see footnote 2 below).
- Clean out dust. Fill hole halfway with Simpson Strong-Tie SET-3G, ET-3G™ or AT-3G™ 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. 13 for Code Reference Key Chart



Typical PBV6PC Installation



Typical CPS4-R Installation

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 1/4	3 1/4	1	(4) 0.148 x 3	5/8	4,490	5,775	—	
CPS46	4x6	5 5/16	3 5/16	1	(4) 0.148 x 3	(2) 5/8	4,490	5,925		
CPS5	5x5	4 1/8	4 1/8	1	(4) 0.148 x 3	5/8	4,490	5,925		
CPS6	6x6	5 5/16	5 5/16	1	(4) 0.148 x 3	5/8	4,490	9,355		
CPS7	8x8	7 1/4	7 1/4	1 1/4	(4) 0.148 x 3	5/8	4,490	10,335		
CPS10	10x10	9 1/4	9	1	(4) 0.148 x 3	5/8	4,490	19,135		
CPS12	12x12	11	11	1	(4) 0.148 x 3	5/8	4,490	22,870		
PBV6PC	6" dia.	5 1/4	—	1	(4) 1/4 x 3 SDS	5/8	3,800	8,255		IBC®, FL, LA
PBV10PC	10" dia.	9 3/8	—	1	(4) 1/4 x 3 SDS	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. 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. 23–24 for fastener information.
6. Fasteners sold separately.