STANDOFF BASES

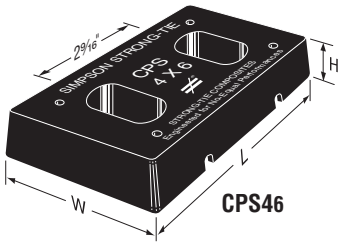
The **PBV** is a hidden standoff post base. Two different sizes fit a variety of posts shapes.
MATERIAL: 14 gauge galvanized steel
FINISH: Textured powder-coated flat black paint or galvanized
ORDER: For powder-coated flat black, order PBV6PC or PBV10PC. For galvanized coating, order PBV6 or PBV10. For kit containing Simpson Strong-Tie® Strong-Drive® screws (SDS), RFB bolt, SET 1.7 adhesive, and powder-coated PBV, order PBV6KT or PBV10KT.

The **CPS** is a Composite Plastic Standoff designed for increased concrete surface area.
MATERIAL: Engineered composite plastic
INSTALLATION: PBV and CPS

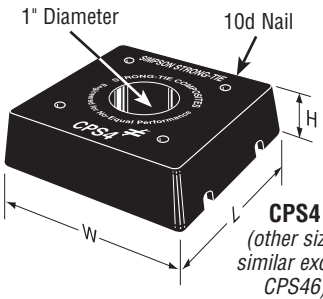
Post:
- Drill a ¾" diameter hole, 10" into the center of the post.
- Clean out dust. Fill hole halfway with Simpson Strong-Tie® SET Epoxy-Tie® adhesive.
- Insert all-thread rod and allow epoxy to set and cure.
- Secure standoff to post using four 10d nails except PBV which uses four Simpson Strong-Tie SDS screws.

Concrete:
- Drill a ¾" diameter hole per anchor design *(see footnote 2 below)*.
- Clean out dust. Fill hole halfway with Simpson Strong-Tie SET Epoxy-Tie 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)*.

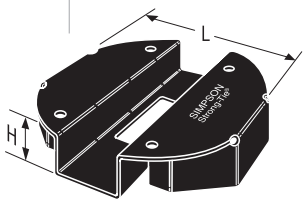
CODES: See page 12 for Code Reference Key Chart.



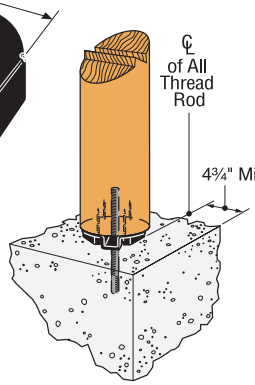
CPS46



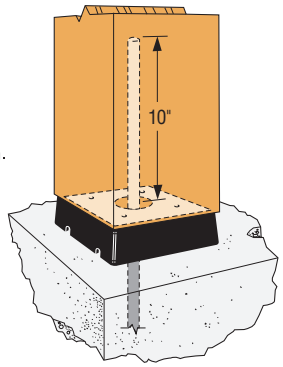
CPS4
(other sizes similar except CPS46)



PBVPC
US Patent
D 399,013



Typical PBV6PC Installation



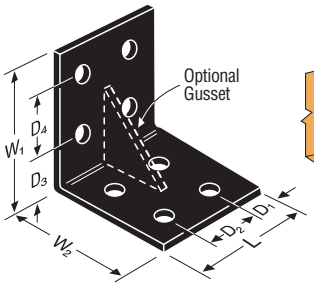
Typical CPS4 Installation

Model No.	Post or Column Size	Dimensions			Fasteners		Allowable Loads		Code Ref.
		L	W	H	Post	Anchor Bolt	Uplift	Down[3]	
CPS4	4x4	3¼	3¼	1	4-10d	⅝"	4490	5195	170
CPS46	4x6	5⁵⁄₁₆	3⁵⁄₁₆	1	4-10d	2-⅝"	4490	5865	
CPS5	5x5	4⅛	4⅛	1	4-10d	⅝"	4490	5865	
CPS6	6x6	5⁵⁄₁₆	5⁵⁄₁₆	1	4-10d	⅝"	4490	7745	
CPS7	8x8	7¼	7¼	1¼	4-10d	⅝"	4490	8315	
PBV6PC	6" Dia	5¼	—	1	4-SDS¼x3	⅝"	3800	9250	I3
PBV10PC	10" Dia	9³⁄₁₆	—	1	4-SDS¼x3	⅝"	3800	19225	

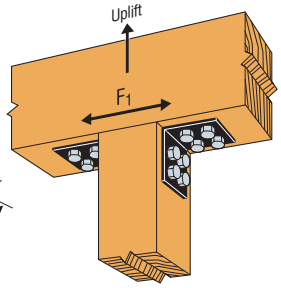
1. Allowable uplift load capacities are for solid sawn posts with specific gravity of 0.36 minimum except the PBV, which is based on round "Viga" *(Ponderosa Pine)* wood posts.
2. All allowable uplift loads are based on a lowest ultimate load from testing divided by a reduction factor of 4. Concrete anchorage to be designed by others, refer to Simpson Strong-Tie® *Anchoring and Fastening Systems for Concrete and Masonry* catalog *(form C-SAS, see page 191 for details)*. Allowable uplift capacities shall not exceed those shown in the table.
3. Download capacities are calculated based on the standoff bearing area and a concrete strength of 2500 psi except the PBV, which is based on the wood bearing strength *(700 psi for Ponderosa Pine)*.
4. Allowable loads may not be increased for short term loading.
5. **NAILS:** 10d = 0.148" dia. x 3" long. See page 16-17 for other nail sizes and information.

HL – HEAVY ANGLES & GUSSETS

Versatile angle gussets and heavy angles promote standardization and construction economy, and are compatible with Simpson Strong-Tie® structural hardware.
FINISH: Textured powder-coated flat black paint, Simpson Strong-Tie® gray paint and also available galvanized
TO ORDER: All products with PC suffix are textured powder-coated flat black paint. 7 gauge products without the PC suffix are galvanized. 3 gauge products without the PC suffix are Simpson Strong-Tie gray paint.
OPTIONS: Gussets may be added to HL models when L ≥ 5". Specify G after numbers in model number as in HL46GPC.
CODES: See page 12 for Code Reference Key Chart.

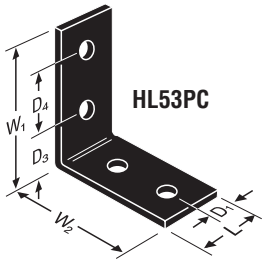


HL55PC



Typical HL55PC Installation

Model No.	Ga	Dimensions						Bolts (Total)		Allowable Loads		Code Ref.
		W₁ & W₂	L	D₁	D₂	D₃	D₄	Qty	Dia	Uplift	F₁	
HL33PC	7	3¼	2½	1¼	—	2	—	2	½	910	1580	170
HL35PC	7	3¼	5	1¼	2½	2	—	4	½	910	1580	
HL37PC	7	3¼	7½	1¼	2½	2	—	6	½	910	1580	
HL53PC	7	5¾	2½	1¼	—	2	2½	4	½	910	1580	
HL55PC	7	5¾	5	1¼	2½	2	2½	8	½	910	1580	
HL57PC	7	5¾	7½	1¼	2½	2	2½	12	½	910	1580	
HL43PC	3	4¼	3	1½	—	2¾	—	2	¾	1555	1580	
HL46PC	3	4¼	6	1½	3	2¾	—	4	¾	1555	2025	
HL49PC	3	4¼	9	1½	3	2¾	—	6	¾	1555	2025	
HL73PC	3	7¼	3	1½	—	2¾	3	4	¾	1555	2025	
HL76PC	3	7¼	6	1½	3	2¾	3	8	¾	2115	3800	
HL79PC	3	7¼	9	1½	3	2¾	3	12	¾	2115	3800	



HL53PC

1. Allowable loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
2. Use 0.85 times table load for Hem Fir.
3. Parts should be centered on the face of the member to which they are attached.
4. Wood members for the '3' and '5' series must have a minimum width and thickness of 3½" for table loads to apply.
5. Wood members for the '4' and '7' series must have a minimum width and thickness of 5⅛" for table loads to apply.
6. Parts must be used in pairs. Lag bolts of equal diameter *(minimum 5" long)* may be substituted for machine bolts into beam with no reduction in load.