

EPB

Elevated Post Base

Material: EPB44A — 14 gauge; others — 12 gauge base plate, 1/16" OD x 8" pipe

Finish: EPB44A — Galvanized; all others — Simpson Strong-Tie® gray paint (may be ordered HDG); see Corrosion Information, pp. 15–18

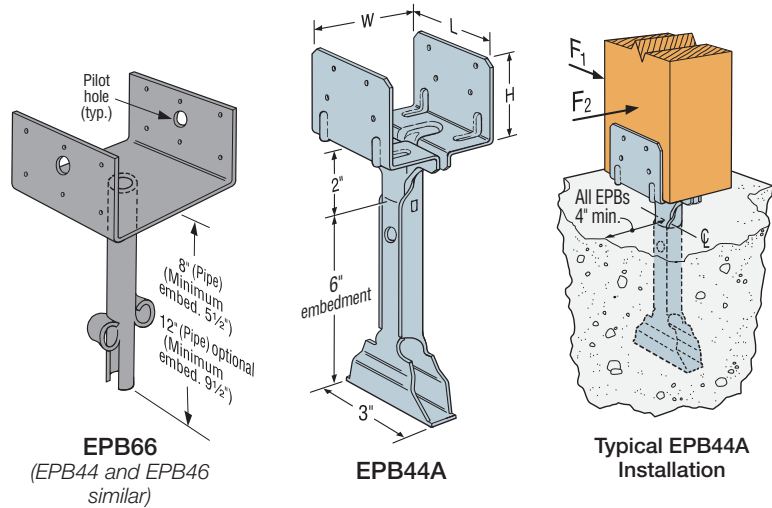
Installation:

- Use all specified fasteners; see General Notes
- Allows 1" to 2½" clearance above concrete, 2" for EPB44A
- 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)

Options:

- 12" pipe available for EPB44, 46, 66; specify "-12" after model number

Codes: See p. 14 for Code Reference Key Chart



Caps and Bases

These products are available with additional corrosion protection. For more information, see p. 18.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 39–40 for more information.

Model No.	Dimensions (in.)			Nails	Allowable Loads (160)			F ₁	F ₂	Code Ref.
	W	L	H		Non-Cracked	Cracked	Download			
					Uplift	Uplift				
Wind and Seismic Design Category A & B										
EPB44A	3 9/16	3	2 3/8	(8) 16d	1,120	785	2,670	815	935	I28, FL, L27
EPB44	3 9/16	3 1/4	2 5/16	(8) 16d	1,035	725	3,465	985	1,135	
EPB46	5 1/2	3 3/16	3	(12) 16d	1,035	725	3,465	985	1,135	
EPB66	5 1/2	5 1/2	3	(12) 16d	1,035	725	3,465	985	1,135	
Seismic Design Category C–F										
EPB44A	3 9/16	3	2 3/8	(8) 16d	940	660	2,670	815	935	I28, FL, L27
EPB44	3 9/16	3 1/4	2 5/16	(8) 16d	870	605	3,465	985	1,135	
EPB46	5 1/2	3 3/16	3	(12) 16d	870	605	3,465	985	1,135	
EPB66	5 1/2	5 1/2	3	(12) 16d	870	605	3,465	985	1,135	

1. Loads may not be increased for short-term loading.
2. Concrete shall have a minimum compressive strength, $f'_c = 2,500$ psi.
3. Multiply Seismic and Wind ASD load values by 1.4 or 1.6 respectively to obtain LRFD capacities.
4. In accordance with IBC Section 1613.1, detached one- and two-family dwellings in Seismic Design Category (SDC) C may use "Wind and SDC A&B" allowable loads.
5. Download shall be reduced where limited by the design capacity of the column. See pp. 383–385 for common post allowable loads.
6. Designer is responsible for concrete design.
7. For full loads, nearest concrete edge required is 4" from EPB center line.
8. Structural composite lumber columns have sides that either show the wide face or the edges of the lumber strands/veneers known as the narrow face. Values in the tables reflect installation into the wide face. See technical bulletin T-C-SCLCLM at strongtie.com for load reductions due to narrow face installations.
9. **Nails:** 16d = 0.162" dia. x 3 1/2" long. See pp. 26–27 for other nail sizes and information.

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EPB44T/EPB44PHDG

Elevated Post Bases

EPB44PHDG can be used both for pier block and cast-in-place installation for 4x4 posts.

Material: 12 gauge base EPB44T — Threaded rod support 5/8" x 6" (shipped assembled); EPB44PHDG — Threaded rod support 3/4" x 6", nut and washer are shipped assembled

Finish: EPB44T: Base — Galvanized, Threaded Rod — Zinc Plate; EPB44PHDG — HDG; see Corrosion Information, pp. 15–18

Installation:

• **Secured with Anchoring Adhesive:**

EPB44T — Drill a 3/4" hole 4" deep minimum into the concrete. Clean the hole and fill half full with anchoring adhesive (per installation instructions). Insert the EPB44T and adjust to the desired height. The threaded rod shall be embedded a minimum of 3 1/2". To adjust after the anchoring adhesive cures, drill a hole in the center of the post and rotate the post base up or down to the desired height.
 EPB44PHDG — Drill a 7/8"-diameter hole 4" deep minimum and fill the hole halfway with anchoring adhesive. Insert the EPB44PHDG and adjust to the desired height. The threaded rod shall be embedded a minimum of 3 1/2". Minimum sidecover is 3" from the center of the threaded rod for both products.

• Go to **strongtie.com** for additional information on hole cleaning procedures and cure time for SET-XP® and AT-XP® anchoring adhesives.

• **Supported by a Nut:**

EPB44T — Drill a 3/4" hole 2 1/2" deep minimum into concrete. Install a 5/8"-11 NC nut and cut washer on the threaded rod. (Nut and washer not supplied). Insert EPB44T into the hole and adjust to the desired height.
 EPB44PHDG — Drill a 1"-diameter hole 3 1/2" deep minimum. Insert the EPB44PHDG and adjust to the desired height.

• **Cast-in-Place:**

Embedded end to have a nut and bearing plate with a minimum embedment of 4" from top of concrete to the top of plate.

- Minimum sidecover is 3" from the center of the threaded rod.
- Fully engage at least three threads in the base.
- 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).

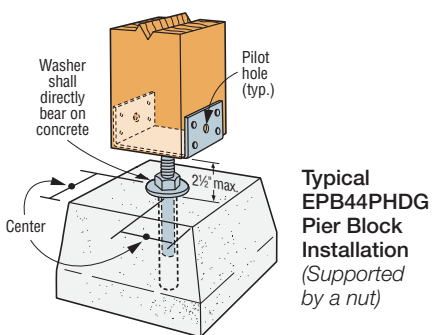
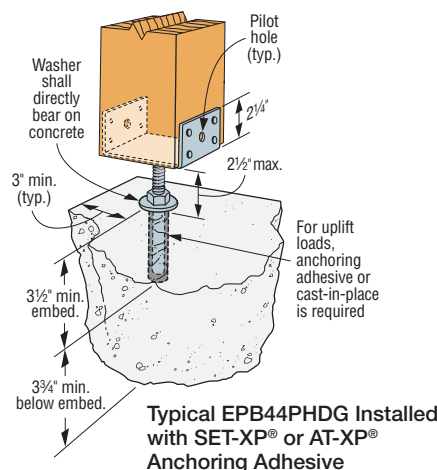
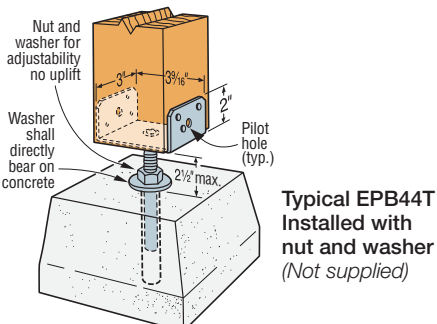
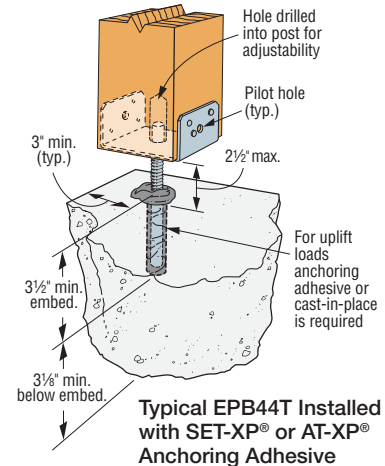
Codes: See p. 14 for Code Reference Key Chart

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Model No.	Nails	Anchor Bolt	Allowable Loads (DF/SP)			Code Ref.
			Download (100)	Uplift (160)		
				SET-XP®	AT-XP®	
EPB44T	(6) 16d	5/8"	3,275	1,130	1,140	170
EPB44PHDG	(8) 16d	3/4"	3,670	1,265	985	

1. Loads may not be increased for short term loading.
2. Uplift loads require the threaded rod to be attached to cured concrete with SET-XP® or AT-XP® anchoring adhesive. Cast-in-place install must have a nut and bearing plate embedded in concrete. Uplift loads do not apply when installed to a pier block.
3. Designer is responsible for concrete design.
4. Downloads shall be reduced where limited by the capacity of the post. See pp. 383–385 for common post allowable loads.
5. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers. For SCL columns, the fasteners for these products should always be installed in the wide face. See technical bulletin T-C-SCLCLM at **strongtie.com** for load reductions due to narrow face instructions.
6. Adhesive anchor design assumptions:
 - a) Uncracked-dry concrete
 - b) Anchors not for use in SDC C–F where load combos include earthquake
 - c) Temperature range 1 or 2 acceptable
 - d) Periodic special inspection assumed per code report
 - e) Minimum concrete strength of 2,500 psi.
7. **Nails:** 16d = 0.162" dia. x 3 1/2" long. See pp. 26–27 for other nail sizes and information.



U.S. Patent 5,666,774