

RPBZ

Retrofit Post Base

The RPBZ retrofit post base is designed to reinforce existing posts and columns. The single, versatile model will fit on any size post consisting of a double 2x4 or larger. RPBZ can also be used to reinforce new post-base connections, such as braced carports, patio covers, decks and other structures. The RPBZ can be installed with the CPS composite plastic standoff to meet a 1" post standoff code requirement. (For more information about the CPS, see p. 321.) A single RPBZ can be installed on a post that is flush to a corner, and two RPBZs can be installed at away-from-edge conditions to fortify the post-base connection to resist both wind and seismic forces.

Strong-Drive® SDS Heavy-Duty Connector screws install easily and provide excellent holding strength for post-to-flange connections. Additionally, the RPBZ can be purposed as a temporary base fixture for posts when shoring beams. RPBZ comes standard in ZMAX® finish to meet exposure conditions in many environments. See additional corrosion information at strongtie.com/corrosion.

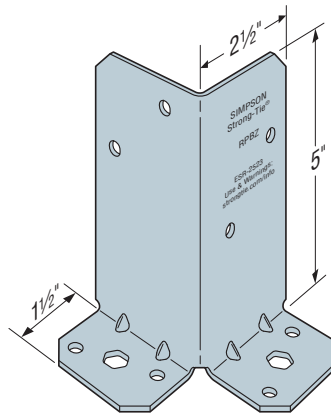
Material: 12 gauge

Finish: ZMAX coating

Installation:

- Use all specified fasteners; see General Notes.
- 1/4" x 1 1/2" Strong-Drive SDS Heavy-Duty Connector and base connection fasteners are not provided with RPBZ. Simpson Strong-Tie CPS series composite post standoff sold separately.
- 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 car ports.

Codes: See p. 12 for Code Reference Key Chart



RPBZ

Retrofit Post Base (cont.)

These products are available with additional corrosion protection. For more information, see p. 15.

RPBZ Connector-Only Values

Model No.	Part Qty.	Post Size	Fasteners				Allowable Connector Loads (DF/SP)			Code Ref.
			Base Connection ^{4,5}		Post		Uplift (160)	F ₂ (160)	F ₃ (160)	
			Type	Qty.	Type	Qty.				
RPBZ	Connection To Concrete									IBC, FL
	1	4x, 6x	¾" Anchor bolt or ¼" Titen® 2 screw	2 anchors or 4 screws	¼" x 1½" SDS	4	1,500	860	485	
	2			4 anchors or 8 screws		8	2,235	1,115	1,115	
	Connection To Wood Framing									
	1	4x, 6x	¼" x 3" SDS	4	¼" x 1½" SDS	4	1,335	860	485	
	2			8		8	2,235	1,115	1,115	
	1		¼" x 1½" SDS	4		4	845	860	485	
	2			8		8	1,825	1,115	1,115	

See footnotes below.

RPBZ Anchorage-to-Concrete Values

Model No.	Part Qty.	Post Size	Fasteners		Allowable Anchorage Loads			
			Base Connection		Uplift		F ₂	F ₃
			Type	Qty.	Uncracked	Cracked		
RPBZ	Corner – Post Flush to Edge							
	1	4x, 6x	¼" x 1¾" Titen 2 screw	4	750	—	820	820
			⅝"-diameter anchor	2	1,520	1,085	510	510
	Away From Edge							
	1	4x, 6x	¼" x 1¾" Titen 2 screw	4	850	—	935	935
			⅝"-diameter anchor	2	2,190	1,565	1,265	1,265
	2		¼" x 1¾" Titen 2 screw	8	1,500	—	1,645	1,645
			⅝"-diameter anchor	4	3,635	2,595	1,730	1,730

- Allowable load for design shall not exceed minimum of Connector Only Value and Anchorage to Concrete Value.
- Allowable connector loads are based on DF/SP lumber. For SPF/HF, multiply table loads by 0.86.
- Double 2x4s may be used in lieu of 4x4 post.
- For installation on 6x or larger members, if four RPBZ post bases are used, allowable loads may be taken to be 1.5 x the tabulated two-part value.
- For installations into concrete, the minimum compressive strength is $f'_c = 2,500$ psi. Designer is responsible for concrete member uplift design.
- Away-From-Edge loads require face of wood post to be a minimum of 2½" away from near edge of concrete on all four sides of the post.
- Allowable anchorage to concrete uplift and shear loads for the ¾" diameter anchors are calculated per ACI 318-14. Shear loads assume cracked concrete while uplift loads consider both cracked and uncracked concrete values, and all are qualified for Wind and Seismic Design Categories A&B.
- Embedment depth for these post-install anchors must be a minimum of 2¾" and are for use with SET-3G® or AT-XP® structural anchoring adhesives or Titen HD® screw anchors.
- Allowable uplift and shear loads for the Titen® 2 masonry screws do not carry a particular "cracked" or "uncracked" designation.
- Titen®2 masonry screws and non-stainless-steel Titen HD® screw anchors should be used only in interior-dry and non-corrosive environments.
- Threads on Strong-Drive® SDS Heavy-Duty Connector screws installed into wood framing must be fully engaged into a structural wood member.