

# New Larger Size for MPBZ Increases Design Possibilities

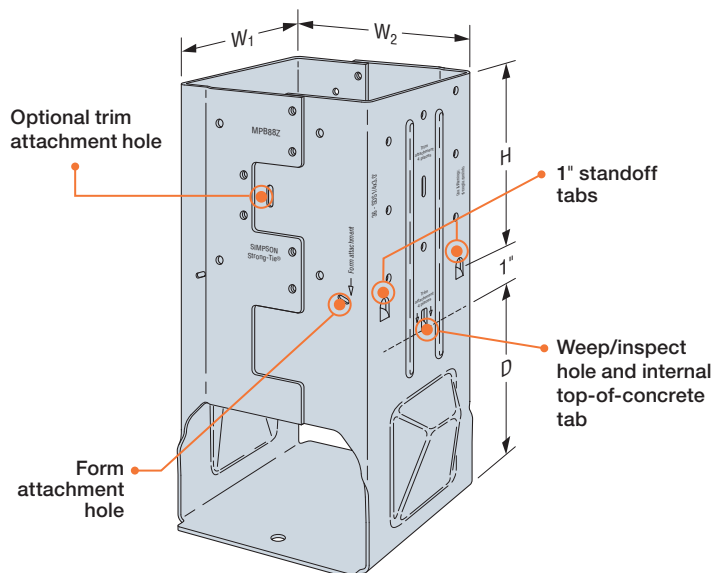


## Innovative Moment Post Base Now Available for 8x Posts

The MPBZ moment post base is now available in a nominal 8x size to support 8x8 wood posts. The MPBZ is the first product of its kind specifically designed to provide moment resistance for wood columns and posts. With its innovative sleeve design, the patent-pending MPBZ encapsulates the post and keeps it from rotating at its base when lateral loads are applied at the top. This provides both the specifier and the contractor with greater design options and the opportunity to reduce the need for bracing, creating more unobstructed views. It's also available for 4x4 and 6x6 posts.

The MPBZ is ideal for freestanding outdoor structures such as carports, fences, pergolas, decks, trash enclosures and screen walls. The moment-resisting post base can greatly reduce — and sometimes eliminate — the need for additional bracing in outdoor structures.

This innovative off-the-shelf solution has been engineered and tested to save specifiers and contractors the time and expense involved in designing, calculating and ordering custom-fabricated parts.



### Key Features

- Tabs inside the MPBZ provide the code-required 1" post standoff to help prevent rot from standing water and ground moisture
- Stamped indicators and internal tabs identify the required concrete embedment depth
- Strategically placed holes simplify installation to allow template attachment
- Ovoid holes have been added for attaching optional trim material
- Holes at the embedment line allow standing water to exit and a point of visual inspection
- One-piece design simplifies installation
- ZMAX® coating is ideal for most exterior and preservative-treated lumber applications

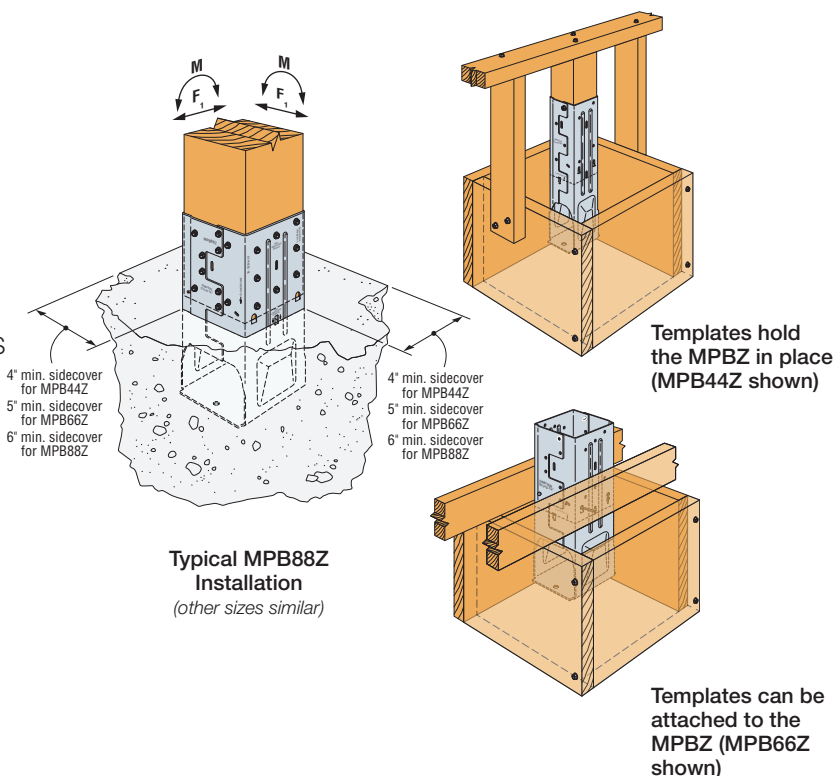
**Material:** 12 gauge

**Finish:** ZMAX® coating

# MPBZ Moment Post Base

## Installation

- Use all specified fasteners (included).
- Install MPBZ before concrete is placed using embedment-level indicators and form attachment holes.
- After concrete has cured, remove plastic tabs prior to placing post.
- Place post on internal tabs 1" above top of concrete.
- Install Simpson Strong-Tie® Strong-Drive® SDS Heavy-Duty Connector screws, which are supplied with the MPBZ. (Lag screws will not achieve the same load.)
- Concrete level inside the part must not exceed ¼" above embedment line to allow water drainage.
- Annual inspection of connectors used in outdoor applications is advised. If significant corrosion is apparent or suspected, then the wood, fasteners and connectors should be evaluated by a qualified engineer or inspector.



Templates hold the MPBZ in place (MPB44Z shown)

Templates can be attached to the MPBZ (MPB66Z shown)

For more information, please visit [strongtie.com/mpbz](http://strongtie.com/mpbz).

## Allowable Load Table

Model No.	Nominal Column Size	Dimensions (in.)			Simpson Strong-Tie SDS Screws	Concrete Allowable Loads						Wood Assembly Allowable Loads (DF/SP)		Rotational Stiffness K (in.-lb./rad.)
		W <sub>1</sub> /W <sub>2</sub>	D	H		Uplift (lb.)		Lateral F <sub>1</sub> (lb.)		Moment M (ft.-lb.)		Download (lb.)		
						Non-Cracked	Cracked	Non-Cracked	Cracked	Non-Cracked	Cracked	(100)	(160)	
<b>Wind and Seismic Design Category A&amp;B</b>														
MPB44Z	4x4	3 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	(16) ¼" x 2½"	4,900	3,990	1,825	1,280	1,410	985	6,240	6,410	2,510,000
MPB66Z	6x6	5 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	(24) ¼" x 2½"	5,815	5,815	3,545	2,480	2,800	1,960	9,360	10,855	3,950,000
MPB88Z	8x8	7 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	(36) ¼" x 3"	9,945	6,960	7,945	5,560	4,160	2,910	15,120	19,230	7,776,000
<b>Seismic Design Category C-F</b>														
MPB44Z	4x4	3 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	(16) ¼" x 2½"	4,785	3,350	1,535	1,075	1,180	830	6,240	6,410	2,510,000
MPB66Z	6x6	5 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	(24) ¼" x 2½"	5,815	5,815	2,980	2,085	2,055	1,645	9,360	10,855	3,950,000
MPB88Z	8x8	7 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	(36) ¼" x 3"	7,420	6,100	6,965	4,875	3,470	2,550	15,120	19,230	7,776,000

1. Loads may not be increased for short-term loading.
2. Higher download can be achieved by solidly packing grout in the 1" standoff area before installation of the post. Posts bearing on grout must be naturally durable wood, preservative-treated wood, or installed with a moisture barrier between the post and grout. Allowable download shall be based on either the wood post design or concrete design calculated per code.
3. Concrete shall have a minimum compressive strength,  $f'_c = 2,500$  psi.
4. Tabulated rotational stiffness accounts for the rotation of the base assembly due to deflection of the connector, fastener slip and post deformation. Designer must account for additional deflection due to bending of the post.
5. Multiply tabulated Seismic and Wind loads by 1.4 or 1.6 (1.67 for 2015 IBC) respectively to obtain LRFD capacities.
6. 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.
7. Foundation dimensions are for MPB anchorage only. Foundation design (size and reinforcement) by Designer.
8. For loading simultaneously in more than one direction, the allowable load must be evaluated using the following equation: (Design Uplift/Allowable Uplift or Design Download/Allowable Download) + Design Moment/Allowable Moment + Design Lateral/Allowable Lateral  $\leq 1.0$ .
9. Tabulated load values may be used for rough sawn lumber or larger size posts without reduction factors. Rough-size and larger-size posts shall be planed uniformly on all four sides such that center line of post is concentric with the center line of MPBZ.

This filer is effective until December 31, 2020, and reflects information available as of January 1, 2018. This information is updated periodically and should not be relied upon after December 31, 2020. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).