

DP-50 Diamond Pier™ – Residential Use

Post/Beam Brackets

The connection bracket needed to make the connection from the Diamond Pier™ to the superstructure can be purchased separately from a local lumberyard. The DP-50 pier has a ½” galvanized bolt embedded in the top of the pier (nut provided), and this bolt will connect to a Simpson Strong-Tie® bracket – model ABE or ABU. Each of these brackets comes with a standoff fitting that separates the wood from contact with the base of the bracket, and eliminates the need to drill into the bottom of the lumber to compensate for the raised anchor bolt.

The ABE bracket is light gauge steel, and it has fairly short sides that attach to posts or beams with galvanized nails. The ABU bracket is heavier gauge, taller, takes a heavier load, and can be attached with either nails or ½” through bolts.

Both brackets come in either a standard galvanized coating, extra zinc coating (Z-max®), or stainless steel finish. Most lumber yards carry the galvanized varieties, and the stainless steel is a special order. The proper coating or finish should be chosen based on the lumber and treating specifications of the project superstructure.

The brackets have a wide hole in the base that allows some horizontal adjustment of the final bracket location, and are tightened to the embedded anchor bolt with a large washer provided with the bracket. If a stainless bracket is chosen, the embedded galvanized bolt must be protected from contact with the bracket and washer with the addition of a small bushing, plumbing washer, or similar rubber or plastic separator.

There are three sizes of bracket : 4x4, 4x6 and 6x6. All may be used with the DP-50, with the exception that the 6x6 bracket must be blocked with composite or pressure treated wood between the base of the bracket and the underside of its standoff fitting, in order to properly transfer the loads to the concrete portion of the pier.

Driving Bits

Automatic demo hammers used for installing the Diamond Pier Pins are listed under the documents section of the residential web page. The bits for larger hammers, using 1 1/8” hex shafts, can be rented through a local rental yard, or purchased from Pin Foundations, Inc. Most of the rental bits are produced by Bruner & Lay of Chicago (847) 678-3232, and distributed through various rental companies throughout the US - bit model # B 31-861.

Custom bits made for Pin Foundations, Inc. also fit the 1 1/8” hex hammers, cost \$165.00 each, and can be delivered by UPS or shipped with a direct order for a pallet of piers.

Smaller bits for the smaller range of demo hammers listed on the website, require a custom fitting at the driving end, and come in many different shaft styles. If this is the type of demo hammer being used, please call Pin Foundations, Inc. directly at (253) 858-8809 to determine the best Pin driving solution.