

BRACKETS AND BITS

For Foundations Requiring Site-Specific or Project-Specific Review Models DP-75, DP-100E & DP-200E

Post/Beam Brackets

The bracket needed to make the connection from the Diamond Pier foundation to a project superstructure can be purchased separately from a local lumberyard. The DP-75 and DP-100E piers have a 5/8" galvanized bolt embedded in the top of the pier (nut provided), and this bolt will provide the attachment for a code-approved connection bracket. Connection brackets typically provide a standoff component for the bottom of the post that separates the wood from contact with the bolt and nut.

These brackets generally come in three sizes corresponding to 4x4, 4x6, or 6x6 lumber. Any size may be used with the single-bolt DP-75 and DP-100E Diamond Pier foundations. The single-bolt DP-200E is available with a 5/8" bolt or a 3/4" bolt. The standard brackets can be used with DP-200E piers with a 5/8" bolt, but those with the 3/4" bolt require custom-fabricated connectors. For all models, if 4-bolt piers are used, custom brackets must be fabricated to fit the 4-bolt pattern and coated with corrosion protection, such as hot dip galvanizing.

Most brackets come in galvanized finish or stainless steel. Most lumber yards carry the galvanized models, with the stainless steel a special-order item. The proper metal and/or coating should be chosen based on the lumber and treating specifications of the project superstructure.

Some brackets typically have a wide hole in the base that allows some horizontal adjustment of the final bracket location; they are tightened to the embedded anchor bolt with a large washer provided with the bracket. If a stainless steel bracket is chosen, the embedded galvanized anchor bolt in the pier 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. As an alternative, special orders for Diamond Pier foundations with stainless steel anchor bolts may be processed, but the casting and delivery schedule will depend on timing relative to the standard pier casting schedule and order volume.

Driving Bits

Some common automatic breaker hammers used for installing the Diamond Pier bearing pins are listed below:

- BOSCH Brute #BH2760VC 63-lb Breaker Hammer; Bit type: 1-1/8" Hex
- MAKITA Model #HM1307CB 35-lb Demolition Hammer; Bit type: 1-1/8" Hex
- HITACHI Model #H65SD2 40-lb Demolition Hammer; Bit type: 1-1/8" Hex
- BOSCH Model #11335K 35-lb Breaker Hammer; Bit type: 1-1/8" Hex
- MILWAUKEE Model #5338 71-lb Breaker Hammer; Bit type: 1-1/8" Hex

Bits for hammers using 1-1/8" hex shafts can be purchased from Pin Foundations, Inc., or rented through a local rental yard. There are two bit sizes: one for both the DP-75 and DP-100E, and a larger special-order bit for the DP-200E. See our website, www.diamondpiers.com, for pricing and delivery options.