

# DiamondPier®

FOUNDATION SYSTEM ...with Pin Pile Technology!

## Quick Installation Guide

Read Full Diamond Pier Installation Manual and View the Installation Video at: [www.DiamondPiers.com](http://www.DiamondPiers.com)

### To Get Started You will Need...

- **The Proper Sized Diamond Pier**

Includes:

- 1 - Concrete Head
- 4 - Pins
- 4 - Tips & 4 - Caps



- **Driving Bit**

1-1/8" hex shaft



Ask dealer about rental

- **Demo/ Breaker Hammer**

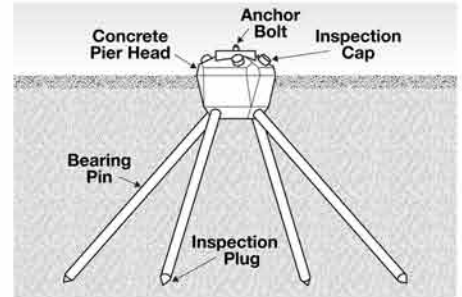
35 lb.+



### Other Common Tools Required...

- Square-Edge Shovel
- Torpedo Level
- Pipe Wrench
- Ear Protection
- Sledgehammer
- Tape Measure
- Proper Safety Goggles
- Insulated Gloves & Protective Clothing

### Diamond Pier® Detail



**Site requirements:** Normal Soil Conditions, properly drained, maximum slope 2:1, see full Installation Manual. **Determine Proper Model Size:** Reference Residential Diamond Pier Load Chart at [www.DiamondPiers.com](http://www.DiamondPiers.com). Example: DP50-50" model is equivalent to an 18" cylinder traditional concrete pier, 48" frost zone rating. **Submit Building Permit Application to Local Municipality:** List Diamond Pier model size. Provide documents supporting code compliancy from downloads at [www.DiamondPiers.com](http://www.DiamondPiers.com). **Install in Minutes:** A minimum two-person crew is recommended.



1 Identify Location



2 Remove Topsoil



3 Set Concrete Head



4 Drive Pins



5 Place Caps on Pins

**Tips:** Layout string approx. 12-14" above the ground on center location of post/pier for a quick reference point. Keeping the pin centered in the driving hole, carefully set pin 6" to 12" into the soil tapping with the sledgehammer until the pier is locked into a level position. With the automatic hammer, drive pins evenly from side to side in equal increments approx. 1' to 2', until pin is approx. 3/4" out to fit cap. One person should hold the pin, limiting vibration to the pier while pin is driven. The edges of the top of the concrete pier do not have to align exactly with the sides of the post or post bracket as long as the bracket is fully supported by the concrete for proper weight distribution. Piers can be nested next to each other to provide more loading, but if closer than 3' on-center, a 13% load reduction should be applied to each pier.

**Note:** Pier can be buried for aesthetic reasons, but access needs to be maintained. Concrete slabs, patios, and other products installed MUST NOT interfere with the Diamond Pier System and the attached post/beam assembly. Expansion joints are commonly used to protect the foundation. Proper drainage must also be maintained.

**WARNING:** Do not install Diamond Pier foundations before all underground utilities have been located, marked, and de-energized. See "Locate Buried Utilities" in the full Installation Manual at [www.DiamondPiers.com](http://www.DiamondPiers.com)



#### Removal/Repositioning when Obstruction Encountered

If a pin stops moving when being driven in, STOP driving the pin. With other pins part way in, use the automatic hammer for approximately 10 to 20 seconds, or give the pin one or two firm square hits with the sledgehammer. If it still will not move, then remove and reposition the pier. To remove, spin and pry a pin simultaneously using a pipe wrench and pry bar.

If the obstruction is close to surface, it may be dug up and removed. Then re-compact the soils with the sledgehammer, and reset the pier. See full Installation Manual and Removal Video at [www.DiamondPiers.com](http://www.DiamondPiers.com).

#### Start Building Beyond the Standard Today

Contact this Local Stocking Dealer

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**Ask Your Local Dealer about a 1st-Time Installation Demo!**