

# Power Post™ (with optional solid metal flashing) Installation Guidelines

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## Installing the Power Post on a composition shingle roof

Power Posts can be attached to the roof using Direct to Structural fasteners (see below); however the rafters must be located because the Power Post attaches to the rafters. For purposes of demonstration, this document shows lag bolts. Please consult a local engineer or fastener manufacturer for additional guidance if needed.

These guidelines begin after the rafters have been located and marked for each PV Flash to be installed. For questions about layout see *Power Rail™ Design Guidelines*.

Direct to Structural Fasteners:

Direct to Structural Fasteners typically fasten the supports to wood or metal structural elements. In the case of wood fasteners, the most universal reference for fastener capacity is the American Wood Council (AWC) selection criteria. The AWC provides an excellent set of online calculators as well as tables for determining the capacities of various standard fasteners, per the following website:

<http://www.awc.org/calculators/connections/default.htm>

Each Power Post kit includes the following items. If any items are missing, call us toll free at 800-260-3792.

Qty	Description
1	Power Post
1	Solid Metal Flashing (optional)
1	Rubber Flashing Collar
1	5/16" x 1" Stainless steel hex bolt *
1	5/16" Lock washer *
1	5/16" Flat washer *

\* When ordered with Power Rail™ P6 Extrusion

**Step 1: Position Power Post and Drill Pilot Holes**

- A. Position the Power Post, making sure the long portion of its base plate is parallel and on top of the rafter location.
- B. Center the Power Post base plate over the rafter and using the 2-holes in the base plate as locators, drill two 3/16” pilot holes as shown below in Figure 1-1.

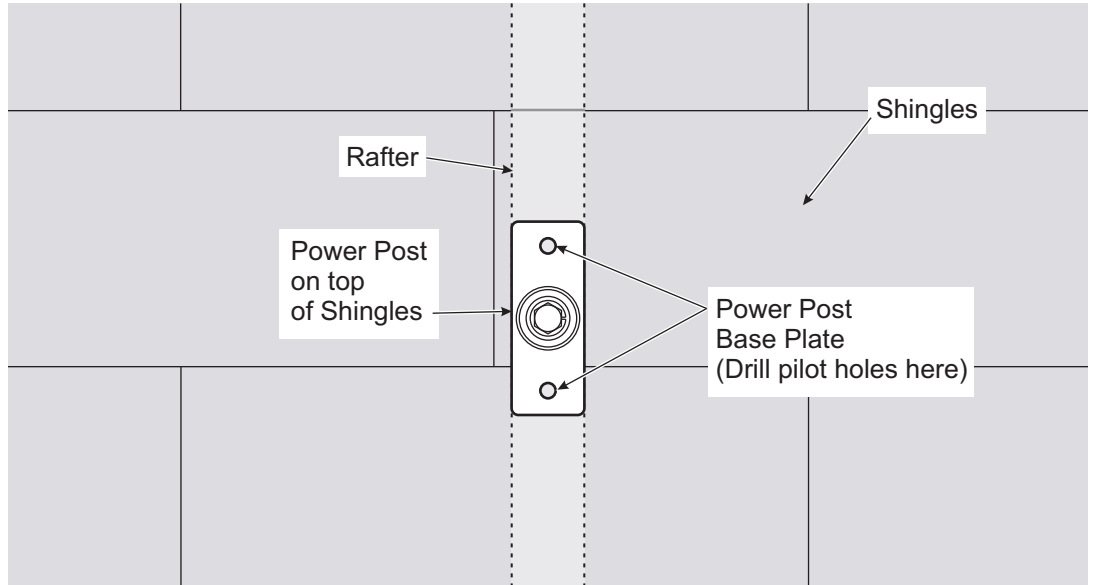


Figure 1-1: Positioning the Power Post and Drilling Pilot Holes

**Step 2: Secure the Power Post to the Roof**

Secure Power Post to rafter using 5/16 x XX inch lag bolt (length is dependent on installation requirements) along with flat washer.

- A. Drive the lag bolts into the rafter at both hole locations in the Power Post base plate and tighten securely. (See Figure 2-1)

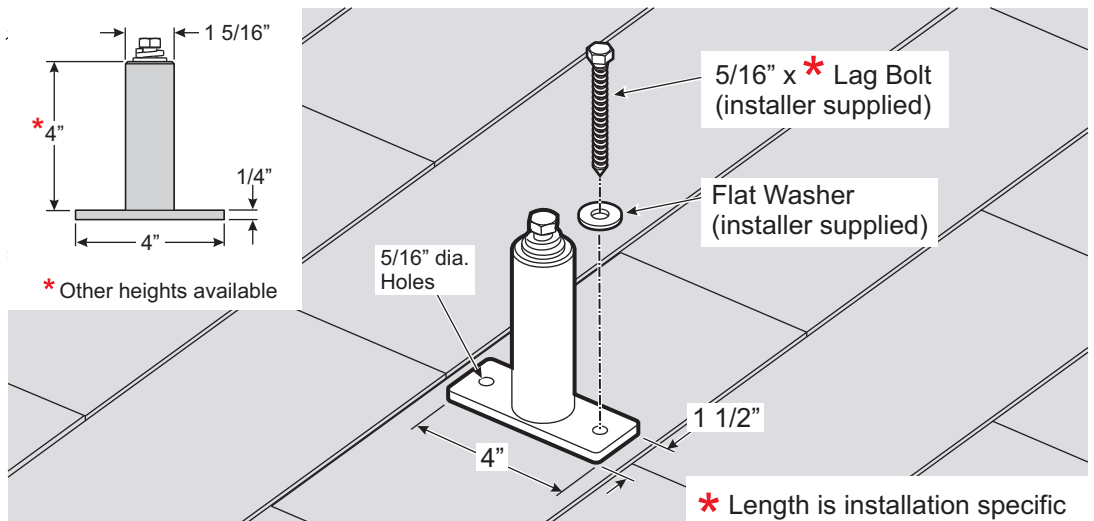
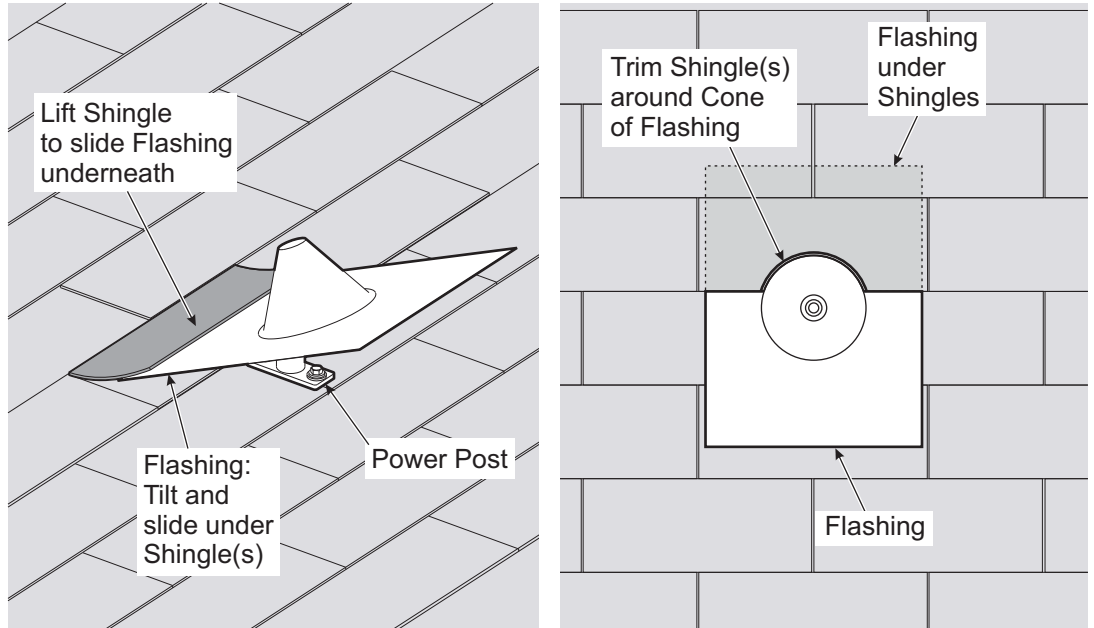


Figure 2-1: Securing the Power Post to Roof

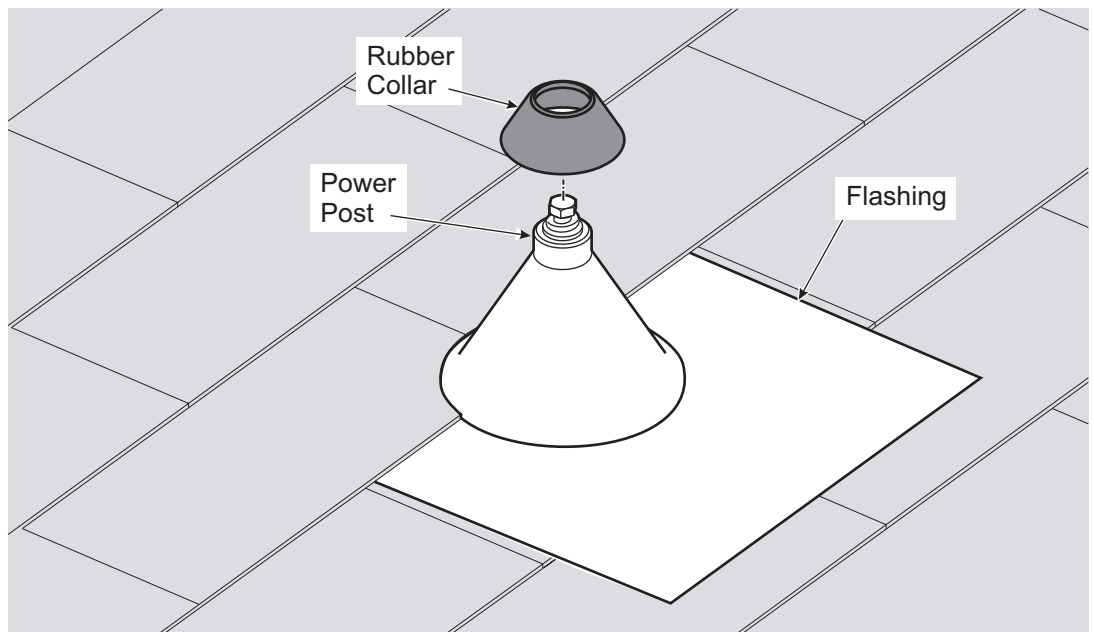
### Step 3: Flash the Power Post to the Roof Shingles

- A. Slide the solid metal flashing over the Power Post while placing the flash under the row of shingles above the Power Post. This may require cutting a semicircle from the shingle to fit the shingle around the cone of the flashing. (see Figure 3-1)



*Figure 3-1: Sliding Flashing underneath Shingles and Trimming Shingles*

- B. Slide the Rubber Flashing Collar over the Power Post and push it down until it rests on top of the cone portion of the metal flashing, sealing the gap between the Power Post and the metal flashing. (see Figure 3-2)



*Figure 3-2: Installing Rubber Flashing Collar*



4000-B Vassar Drive NE  
Albuquerque, New Mexico 87107  
USA

Telephone: 800.260.3792  
Fax: 505.889.3548  
Web Site: [www.DPWSolar.com](http://www.DPWSolar.com)  
E-mail: [info@power-fab.com](mailto:info@power-fab.com)

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