

Offset Power Post™ (with optional Oatey® Flashing) Installation Guidelines

Installing the Offset Power Post on a composition shingle roof

Offset Power Posts can be attached to the roof using Direct to Structural fasteners (see below); however the rafters must be located because the Offset 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 link:

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

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

| Qty | Description |
|-----|---------------------------------------|
| 1 | Offset Power Post |
| 1 | Oatey Flashing (optional) |
| 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 the Offset Power Post and Drill Pilot Holes

- A. Position the Offset Power Post, making sure the long portion of its base plate is parallel and on top of the rafter location.
- B. Center the Offset 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.

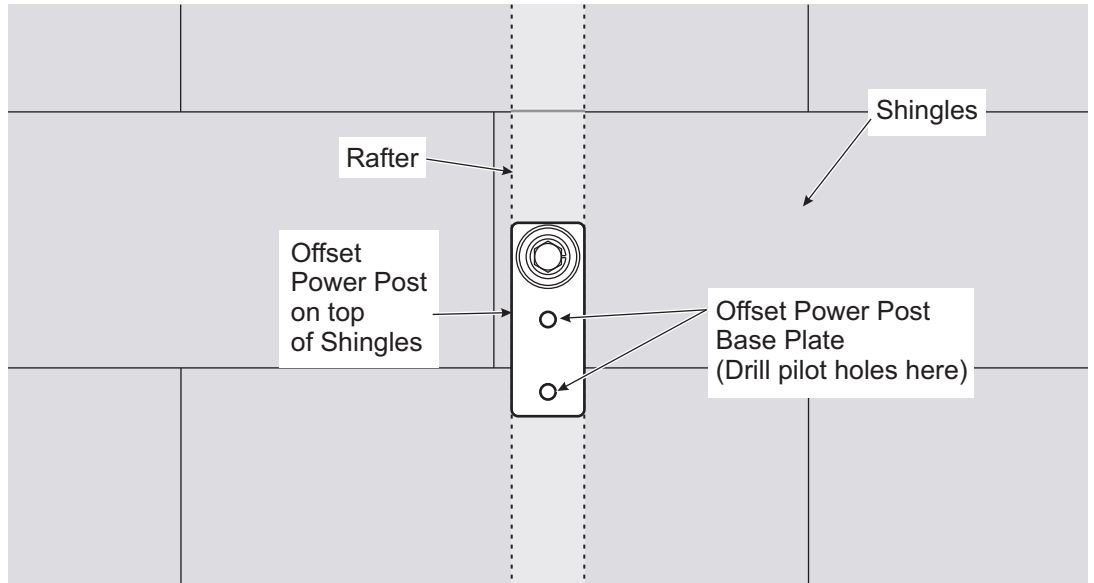


Figure 1-1: Positioning the Offset Power Post and Drilling Pilot Holes

Step 2: Secure the Offset Power Post to the Roof

Secure Offset 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 of the Offset Power Post base plate and tighten securely. (See Figure 2-1)

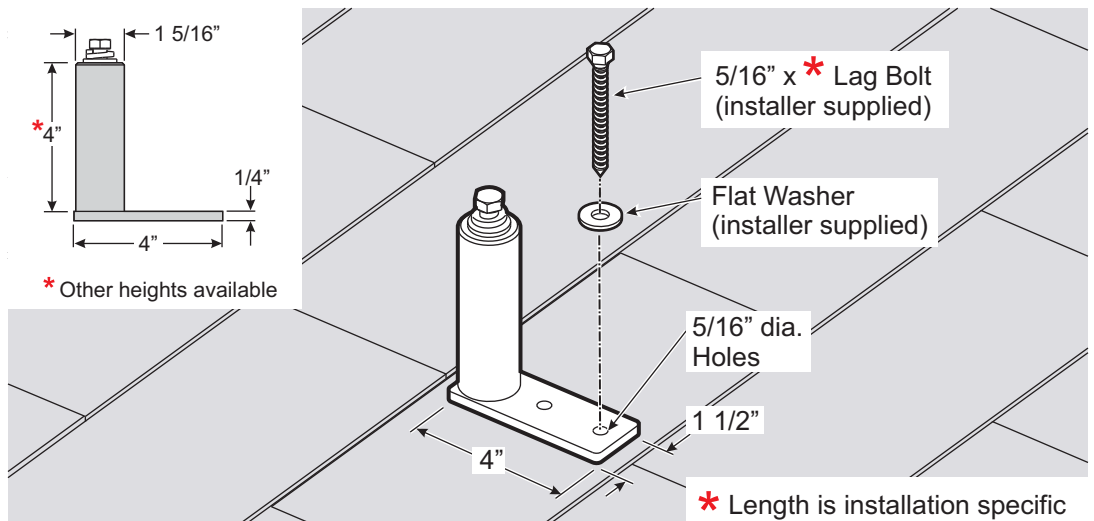


Figure 2-1: Securing the Offset Power Post to Roof

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

- A. Align the top of the Offset Power Post with the hole in the Rubber Collar of the Oatey Flashing, passing it thru the hole. Place the flash under the row of shingles above the Power Post. This may require cutting a semicircular shape from the shingle to fit the shingle around the cone of the flashing. (See Figure 3-1)

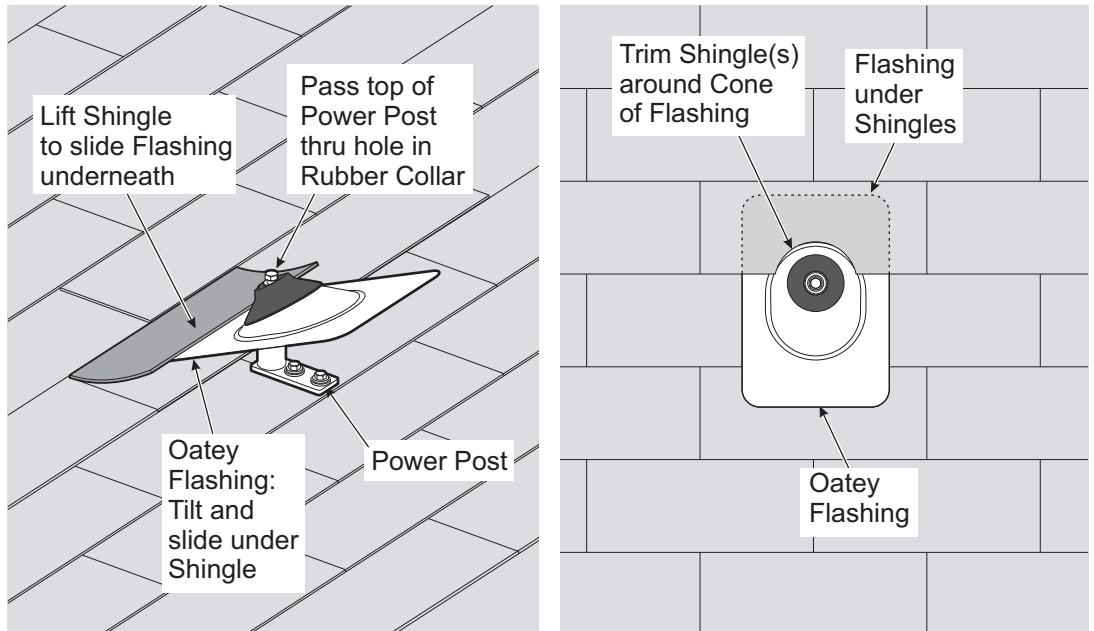


Figure 3-1: Sliding Oatey Flashing underneath Shingles and Trimming Shingles

- B. Push the Oatey Flashing downward until it rests on the shingles. The Rubber Collar will stretch around the Power Post creating a weatherproof seal. (See Figure 3-2)

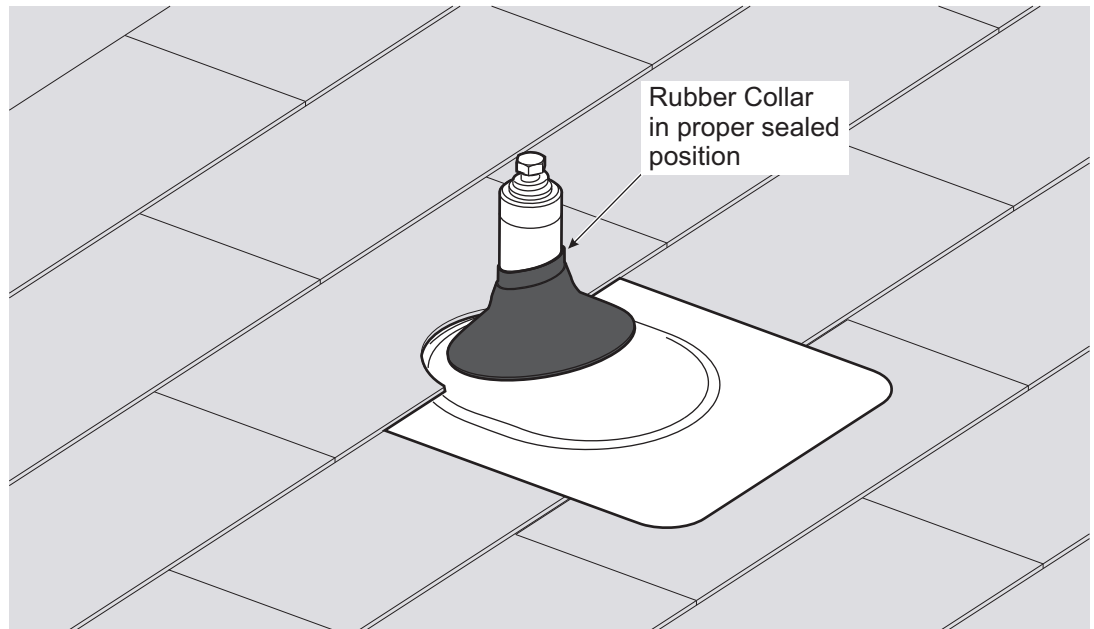


Figure 3-2: Proper positioning of Rubber Collar



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