



CITY OF DIXON  
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Building Info [Building@cityofdixonca.gov](mailto:Building@cityofdixonca.gov)

## Residential Re-Roof Homeowner Info

### Asphalt Composition Shingle replacement

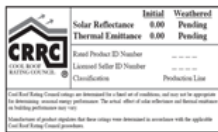
**Repairs to a roof that do not exceed 10% of the total roof area, or 1,000 square feet, whichever is less, do not require a building permit**

1. OK to pull/owner builder permit. Application and Owner/Builder forms located below

[Welcome to the Official Website of the City of Dixon, CA - Forms, Fees, and Permits](#)

2. Please select/purchase roofing materials that are listed in the Cool Roof Rating Council (CRRC) Rated Product Directory when the re-roof project involves replacement of more than 50% of the roofing materials.

Look for this label on your new roofing materials



You may also look up the item at <http://coolroofs.org/products/results> or [CRRC Roof Directory](#)

Provide the compliant item information on your permit application and please save one packaging from the new roof materials to provide to the inspector during the inspection

3. Additional items need for the re-roof

**NOTE:** asphalt shingles require minimum slope 2:12. Nail Wood Structural Panel's 6 in. edge, 12 in. field (6 in. field if less than 3/4 Wood Structural Panel).

Fasteners for asphalt shingles and drip edge shall be galvanized steel, stainless steel, aluminum or copper roofing nails. Minimum 12 gage (0.103 inch 3mm) with a minimum 3/8 inch-diameter head complying with ASTM F1667 and long enough to penetrate the roofing materials 3/4 inch into the roofing materials. Install shingles min 4 fasteners per strip.

**R905.2.5 Fasteners.** Fasteners for asphalt shingles shall be galvanized steel, stainless steel, aluminum or copper roofing nails, minimum 12-gage [0.105 inch (3 mm)] shank with a minimum 3/8-inch-diameter (9.5 mm) head, complying with ASTM F1667, of a length to penetrate through the roofing materials and not less than 3/4 inch (19.1 mm) into the roof sheathing. Where the roof sheathing is less than 3/4 inch (19.1 mm) thick, the fasteners shall penetrate through the sheathing.

### Valley flashing

**R905.2.8.2 Valleys.** Valley linings shall be installed in accordance with the manufacturer's instructions before applying shingles. Valley linings of the following types shall be permitted:

1. For open valleys (valley lining exposed) lined with metal, the valley lining shall be not less than 24 inches (610 mm) wide and of any of the corrosion-resistant metals in Table R905.2.8.2.

2. For open valleys, valley lining of two plies of mineral-surfaced roll roofing, complying with ASTM D3909 or ASTM D6380 Class M, shall be permitted. The bottom layer shall be 18 inches (457 mm) and the top layer not less than 36 inches (914 mm) wide.

3. For closed valleys (valley covered with shingles), valley lining of one ply of smooth roll roofing complying with ASTM D6380 and not less than 36 inches wide (914 mm) or valley lining as described in Item 1 or 2 shall be permitted. Self-adhering polymer-modified bitumen underlayment complying with ASTM D1970 shall be permitted in lieu of the lining material.

**Drip edge materials** are required at the eaves and rake edges of the roof deck. Install per manufacturer requirements or minimum every 12 inches per code and overlap a minimum of two (2) inches. Drip edge is required to extend min ¼ below the roof sheathing and not less than two (2) inches back on to the deck.

**R905.2.8.3 Sidewall flashing.** Base flashing against a vertical sidewall shall be continuous or step flashing and shall be not less than 4 inches (102 mm) in height and 4 inches (102 mm) in width and shall direct water away from the vertical sidewall onto the roof or into the gutter. Where siding is provided on the vertical side-wall, the vertical leg of the flashing shall be continuous under the siding. Where anchored masonry veneer is provided on the vertical sidewall, the base flashing shall be provided in accordance with this section and counterflashing shall be provided in accordance with Section R703.8.2.2. Where exterior plaster or adhered masonry veneer is provided on the vertical sidewall, the base flashing shall be provided in accordance with this section and Section R703.6.3.

**R905.2.8.5 Drip edge.** A drip edge shall be provided at eaves and rake edges of shingle roofs. Adjacent segments of drip edge shall be overlapped not less than 2 inches (51 mm). Drip edges shall extend not less than 1/4 inch (6.4 mm) below the roof sheathing and extend up back onto the roof deck not less than 2 inches (51 mm). Drip edges shall be mechanically fastened to the roof deck at not more than 12 inches (305 mm) o.c. with fasteners as specified in Section R905.2.5. Underlayment shall be installed over the drip edge along eaves and under the drip edge along rake edges.

**Replacement roof jacks** for plumbing terminations (if original ones are damaged or otherwise unsuitable for re-use)

**Proper cricket or saddle** for chimney or penetration wider than 30 inches CRC 903.2.2

**Secure “hot vents”** from surrounding roof deck. Typical metal plumbing strap(s) are used in criss-cross fashion to isolate and secure the water heater and/or furnace vent from contact with the deck. Min one inch clearance required

**Underlayment** required per manufacturers specifications and look for ASTM D226, D1970, D4869 and D6757. Install per manufacturers requirements

Replace all moisture damaged decking after striping the old roof shingles (if deck is less than ¾ inch in depth then the deck shall be nailed at 6 inches on center in the field and 6 inches on center at the edge) otherwise every 12 inches in the field and 6 inches at the edge.

## Inspections

- **Roof Deck (deck-nail)** is requested after the entire existing roof has been removed and all moisture damaged roof deck has been replaced. City will inspect the exposed roof deck before the underlayment is installed this will include the “hot vents”. This is a great time to verify roofing materials for CRRC compliance if available on site – otherwise need proof at final. Documentation from manufacturer or label from roofing materials
- **Final inspection**
  - Entire roof is installed
  - Drip edges
  - Valley flashing
  - Roof jacks installed
  - Any sidewall flashing
- **Smoke and Co** verification (inside) or signed declaration of installation from contractor or homeowner