

RE-ROOFING USING RADIANT BARRIER AS AN ALTERNATIVE TO COOL ROOF REQUIREMENTS

**Public Works
 Building Inspection**

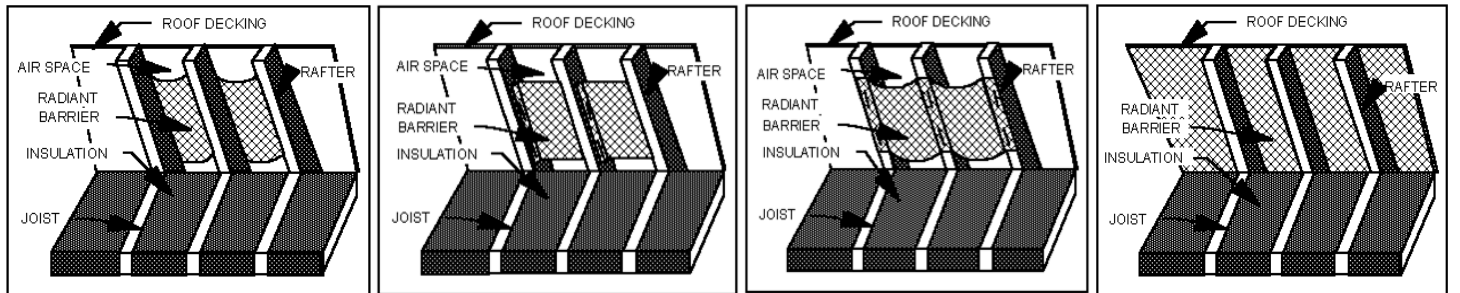
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Important information you should know BEFORE obtaining a re-roof permit

One of the alternatives to the cool roof requirements, when re-roofing a residential structure, is installing a radiant barrier in the attic. The following clarifies the specific requirements of section 151 (f) 2.

- Radiant barrier must have an emittance of 0.05 or less.
- Only four (4) ways of installing the radiant barrier are acceptable:
 - 1) Drape a foil type radiant barrier over the top of the top chords/rafters before roof sheathing is installed,
 - 2) Radiant barrier can be field laminated using a secure mechanical means of securing foil to the bottom of the roof decking,
 - 3) Stapling the radiant barrier to the underside of the truss/rafters (top chord),
 - 4) Use roof sheathing that has a radiant barrier bonded to it in the factory (must install so that the shiny side is facing down toward the attic space).

Please see diagrams below.



Method 1
Radiant Barrier Draped Over Top of Truss/Rafter

Method 2
Radiant Barrier Attached Between Truss/Rafter

Method 3
Radiant Barrier Attached to Bottom of Truss/Rafter

Method 4
Radiant Barrier Attached to Underside of Roof Deck*

- Radiant barrier shall be installed to cover all gable end walls and other vertical surfaces in the attic.
- Provide a min. free ventilation area of not less than one square foot of vent area for each 150 square feet of attic floor area.
- Provide no less than 30 percent upper vents. (Ridge vents or gable vents are recommended to achieve the best performance. The material should be cut to allow for full airflow to the venting).

* radiant barrier shall not be installed over existing skip sheathing