



YOLO COUNTY BUILDING INSPECTION DIVISION

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Form #
RES - 014

RESIDENTIAL COOL ROOF REQUIREMENTS

Address _____ Permit # _____

Under the provisions of the 2013 California Energy Code, re-roof projects are required to comply with cool roof requirements when more than 50% of a roof is replaced.

Cool roof requirements and acceptable alternatives are listed below:

High-Slope Roof (2:12 slope and greater) Check applicable box below:

- Install compliant cool roof material that is listed in the Cool Roof Rating Council (CRRC) Rated Product Directory (0.20 aged solar reflectance, 0.75 thermal emittance, or an SRI of 16). <http://coolroofs.org/products/results>
- Air-space of 1.0 inch (25 mm) is provided between the top of the roof deck to the bottom of the roofing product.
- The installed roofing product has a profile ratio of rise to width of 1 to 5 for 50 percent or greater of the width of the roofing product (high profile "S" tile).

- Existing ducts in the attic are insulated to R6 and sealed in accordance with the Energy Code requirements.
- Buildings with at least R-38 ceiling insulation.
- Buildings with a radiant barrier in the attic.
NOTE: Radiant barrier must be installed in compliance with the manufacturer's installation instructions. When installed as roof sheathing it is not allowable to install radiant barrier directly over skipped sheathing. The skipped sheathing must be removed or a 1x4 shall be installed over each truss/rafter to provide a 3/4" air space between the radiant barrier and the skipped sheathing.
- Buildings that have no ducts in the attic.
- R-4 or greater insulation above the roof deck.
- Roof area covered by building integrated photovoltaic panels and solar thermal panels.

Low-Slope Roof (less than 2:12 slope)

Check applicable box below:

- Install compliant cool roof material that is listed in the Cool Roof Rating Council (CRRC) Rated Product Directory (0.63 aged solar reflectance, 0.75 thermal emittance, or an SRI of 75). <http://coolroofs.org/products/results>
- No ducts in the attic
- The aged solar reflectance can be met by using insulation at the roof deck specified in TABLE 150.2-A.

TABLE 150.2-A AGED SOLAR REFLECTANCE INSULATION TRADE OFF TABLE

Aged Solar Reflectance	Roof Deck Insulation R-value	Aged Solar Reflectance	Roof Deck Insulation R-value
0.62-0.60	2	0.44-0.40	12
0.59-0.55	4	0.39-0.35	16
0.54-0.50	6	0.34-0.30	20
0.49-0.45	8	0.29-0.25	24

Signature of Applicant: _____

Date _____