

City of Woodland

COMMUNITY DEVELOPMENT DEPARTMENT
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RESIDENTIAL COOL ROOF REQUIREMENTS

Address

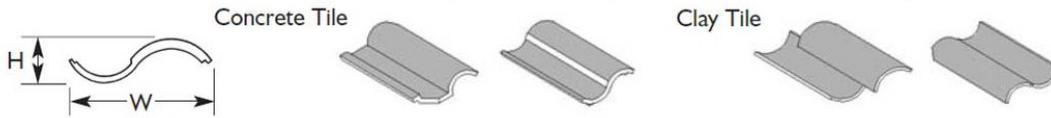
Permit # BLDG

2013 California Energy Code requires re-roof projects 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).
Air-space of 1.0 inch 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).

High Profile Tile - Tiles having a rise to width ratio greater than 1:5 (measured in installed condition)



- Existing ducts in the attic are insulated to R6 and sealed (HERS verification within last 5 years).
Buildings with at least R-38 ceiling insulation. (Or installed as part of the Re-Roof Permit)
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.
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).
Buildings that have 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 150.2A AGED SOLAR REFLECTANCE INSULATION TRADE OFF TABLE

Table with 4 columns: AGED SOLAR REFLECTANCE, ROOF DECK INSULATION R-VALUE, AGED SOLAR REFLECTANCE, ROOF DECK INSULATION R-VALUE. Rows show trade-off values for reflectance and insulation.