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## Residential Cool Roof

**Under the provisions of the 2025 California Energy Code, re-roof projects are required to comply with cool roof requirements when more than 50% of a roof is replaced. CEC150.11**

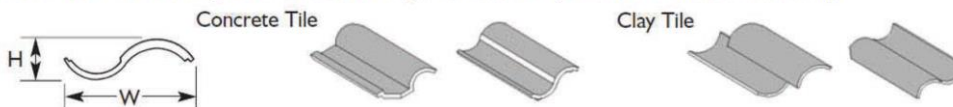
*Repairs to a roof that do not exceed 10% of the total roof area, or 1,000 square feet, whichever is less, do not require a building permit*

**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).

**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 is required).
- ☐ 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. The radiant barrier shall be installed at all gable end walls and other vertical surfaces in the attic with exposure to the exterior.

- ☐ Buildings that have no ducts in the attic.
- ☐ R-2 or greater continuous insulation above or below the roof deck.

**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

	Initial		Weathered	
	Solar Reflectance	0.00	Pending	Pending
Thermal Emittance		0.00	Pending	Pending
Rated Product ID Number		---	---	---
Licensed Seller ID Number		---	---	---
Classification		---	---	---
Production Line		---	---	---
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary. Manufacturers of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>				

☐ Yes ☐ No Are there pv panels on the roof? If yes, a separate PV reinstall permit will be needed.