

# Residential Roof Requirements

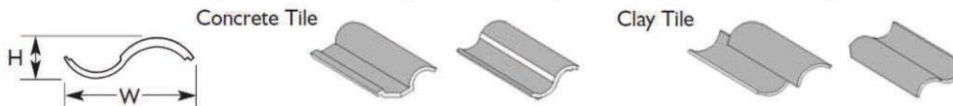
Address \_\_\_\_\_

- Please check this box if: A cool roof will be installed under the provisions of the 2019 California Energy Code, re-roof projects are required to comply with cool roof requirements when more than 50% of a roof is replaced. If a cool roof is installed, install a 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>

**1. For High-Slope Roof (2:12 slope and greater) If an alternate to the cool roof is to be installed** Check the applicable box below: Please check only one

- 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 R8 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-4 or greater insulation above the roof deck.

**2. For Low-Slope Roof (less than 2:12 slope) If an alternate to the cool roof is to be installed** Check the applicable box below: Please check only one

- 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

**3. Are there PV panels on the roof?**  Yes  No **If Yes, a separate permit will be required. Please consult with a Permit Technician**

**I certify that I have read and understand the above requirements and agree to comply with the 2019 California Energy Code.**

**Applicant signature:** \_\_\_\_\_

**Date** \_\_\_\_\_