



# RESIDENTIAL REROOF PERMIT COOL ROOF EXEMPTION DOCUMENTATION

Community Development Department/Building Division  
201 North Broadway, Escondido, CA 92025 (760) 839-4647

Permit Number: [PERMIT NO]

Date: [APPL DATE]

[SITE ADDRESS]

[DESCRIPTION]

[OWNER NAME]

[OWNER ADDRESS]

[OWNER CITY], [OWNER STATE]. [OWNER ZIP]

Excerpt from 2016 Residential Energy Design Manual

### Question

I am considering doing a reroof on my home. When will I be required to put on a cool roof?

### Answer

Cool roof requirements are triggered when more than 50% (percent) of the roof area is being replaced. If one of the exceptions below applies, then cool roof requirements are not triggered: **(Please circle applicable exemption)**

1. Buildings with no ducts in the attic; or **(access to attic space required)**
2. If the building with a radiant barrier in the attic meeting the requirements of §150.1(c)2 or **(access to attic space required)**
3. Buildings with at least R-38 ceiling insulation; or **(access to attic space required)**
4. In climate Zones 10-15, R-2 or greater roof deck insulation above vented attic; or
5. If existing ducts in the attic are insulated and sealed according to § 150.1(c)9; or **(verification of insulation and Hers testing required)**
6. Air space of 1.0 inch is provided between the top of the roof deck to the bottom of the roofing product; or
7. 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; or
8. If the building can show compliance using performance approach.
9. A "low-E" reflective insulation type of product, or equal, acceptable to the California Energy Commission.

Applicant's Signature \_\_\_\_\_

(print name) \_\_\_\_\_

Date \_\_\_\_\_

CHECK ONE:  Building Owner     Owner's Agent     Contractor     Contractor's Agent

2. R-13 in 2x4 exterior walls, and R-19 in 2x6 or greater exterior walls, with no exterior rigid insulation required; or
3. R-19 in raised floors over crawl spaces, over open outdoor areas, unheated basements, and garages.

#### 9.6.1.4 Replacing the Roof Surface or Roof Sheathing (partial or entire replacement)

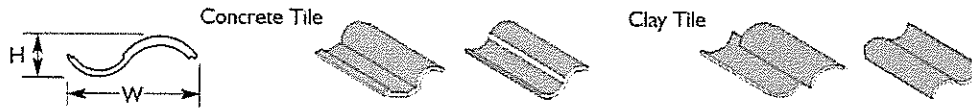
##### A. Steep-Sloped Roofs ( $\geq 2:12$ )

In Climate Zones 10 through 15, if 50 percent or more of the existing building's roof surface is being replaced, the minimum cool roof requirement for the replaced steep-sloped roofing area shall have an aged solar reflectance of 0.20, thermal emittance equal to 0.75, or a minimum SRI of 16. The requirements above apply unless one of the following is present (considered equivalent to the cool roof requirements in §150.2(b)1Hi):

1. Air space of 1.0" (25mm) between the roof deck and the bottom of the roofing product. ✓
2. Roofing product profile ratio of rise to width is at least 1:5 for >50 percent width of roofing product. ✓

---

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



3. Existing ducts in attic are insulated and sealed according to §150.1(c)9. ✓
4. Building has at least R-38 roof/ceiling insulation. ✓
5. Roof of attic spaces has a radiant barrier according to §150.1(c)2. ✓
6. There are no ducts in the attic space. ✓
7. In Climate Zones 10 through 15, greater than R-2.0 insulation above the roof deck. ✓

##### B. Low-Sloped Roofs ( $< 2:12$ )

In Climate Zones 13 and 15, if 50 percent or more of the existing building's roof surface is being replaced, the minimum cool roof requirements for low-sloped roofs shall have an aged solar reflectance of 0.63, thermal emittance of 0.75, or a minimum SRI of 75 per §150.2(b)1Hii. These apply unless one of the following is present which are considered equivalent to the cool roof requirements in §150.2(b)1Hii:

1. There are no ducts in any attic space.
2. The aged solar reflectance can be traded off with additional insulation added at the roof deck as specified in Table 150.2-A of the Energy Standards.