



# NON-RESIDENTIAL COOL ROOF REQUIREMENTS FOR ALTERATIONS

Under the provisions of the 2022 California Energy Code §141.0(b)2B, roof replacement projects for Climate Zone 10 may be required to comply with cool roof requirements when more than 50 percent of the roof area or more than 2,000 square feet of roof, whichever is less, is altered.

Check applicable box below:

**Install cool roof compliant material listed in the Cool Roof Rating Council (CRRC) directory:**

Nonresidential buildings:

≤ 2:12 Slope: Minimum aged solar reflectance of 0.63 & thermal emittance of 0.75, or a minimum SRI of 75.  
 > 2:12 Slope: Minimum aged solar reflectance of 0.25 & thermal emittance of 0.80, or a minimum SRI of 23.

High-rise residential buildings and hotels and motels:

≤ 2:12 Slope: Minimum aged solar reflectance of 0.55 & thermal emittance of 0.75, or a minimum SRI of 64.  
 > 2:12 Slope: Minimum aged solar reflectance of 0.20 & thermal emittance of 0.75, or a minimum SRI of 16.

**Cool Roof acceptable alternatives and exceptions listed below (check one):**

Roof area is over unconditioned space (e.g., warehouse)  
 Does not exceed 2000 SF. or more than 50% of total roof area. Reroof \_\_\_\_\_ SF. Total Area \_\_\_\_\_ SF.

**When low sloped roofs (≤ 2:12 Slope) are exposed to the roof deck and requires cool roof, the exposed area shall be insulated to the levels specified in TABLE 141.0-C:**

Install continuous insulation R-value R-23 or U-factor 0.037, with at least R-10 above deck.

**Roof Insulation acceptable alternatives and exceptions listed below (check one):**

The area of roof is being recoated.  
 The roof is being recovered with new R-10 insulation added above the roof deck.  
 If mechanical equipment on the roof will not be disconnected and lifted, insulation added is the greater of R-10 or the maximum installed thickness that will allow the distance from the height of the roof membrane surface to the top of the base flashing to remain in accordance with the manufacturer's instructions.  
 At the drains and other low points, tapered insulation with a thermal resistance less than that prescribed in Table 141.0-C may be used, provided that insulation thickness is increased at the highpoints of the roof so that the average thermal resistance equals or exceeds the value specified in Table 141.0-C.

**Supplemental Documentation Required:**

- Manufacturer information and/or ICC Evaluation Report for proposed roofing and Insulation products.
- Construction details for the proposed installations.
- 2022-NRCC-ENV-E form to be submitted by installing Contractor at time of permit application.
- 2022-NRCI-ENV-E form to be submitted to the Building Inspector by installing Contractor at Final inspection.

Address: \_\_\_\_\_

Date: \_\_\_\_\_

Applicant: \_\_\_\_\_

(Print Name)

(Signature)