

2013 Prescriptive Certificate of Compliance: Residential Reroof

CF1R-ALT-ReRoof

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| Project Address: | Climate Zone 12 | Permit # |
|------------------|---------------------------|----------|

ROOFING PRODUCTS (COOL ROOFS) §150.2(b)1H

When the area of exterior roof surface to be replaced exceeds 50% of the existing roof area, the new roofing area must meet the roofing product "Cool Roof" requirements of §150.2(b)1Hi or 150.2(b)1Hii.

Check applicable **alternative** or **exception** below if the roof alteration is exempt from the roofing product "Cool Roof" requirements:

- Cool roof not required in Climates Zones 1-12, 14, and 16 with low-sloped roof (pitch ≤ 2:12).
- Cool roof not required in Climates Zones 1-9, and 16 with steep-sloped roof (pitch > 2:12).

Alternatives to §150.2(b)1Hi, Steep-slope roof (pitch > 2:12)

- 1" minimum air-space provided above the roof deck over an attic and below the bottom of roofing product; or
- Existing ducts in the attic are insulated and sealed according to §150.1(c)9; or
- Building has at least R-38 ceiling insulation; or
- Building has radiant barrier in the attic meeting the requirements of §150.1(c)2; or
- Building has no ducts in the attic; or
- In climate zones 10-15, R-4 or greater roof deck insulation above vented attic; or
- Roofing product profile ratio of rise to width ≥ 1:5 for at least 50% of the product width.

Exception to §150.2(b)1Hii, Low-slope roof (pitch ≤ 2:12)

- Building has no ducts in the attic.

Other Exceptions

- Entire roofing areas covered by building-integrated photovoltaic or solar thermal panels are exempt from the Cool Roof criteria.
- Roof constructions that have thermal mass over the roof membrane with at least 25 lb/ft² are exempt from the Cool Roof criteria.

NOTE: If any one of the alternatives or exceptions is checked, the Aged Solar Reflectance and Thermal Emittance requirements for roofing products in §110.8(i) are not applicable. Do not fill out table below.

| CRRC Product ID Number ¹ | Roof Slope | | Product Type ² | Aged Solar Reflectance ^{3,4} | | Thermal Emittance | SRI ⁵ |
|-------------------------------------|--------------------------|--------------------------|---------------------------|---------------------------------------|--|-------------------|------------------|
| | ≤ 2:12 | > 2:12 | | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | | | |

Note: If no CRRC label is available, this compliance method cannot be used, use the Performance Approach to show compliance,

1. The CRRC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at www.coolroofs.org/products/search.php
2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
3. If the Aged Reflectance is not available in the Cool Roof Rating Council's Rated Product Directory then use the Initial Reflectance value from the same directory and use the equation $(0.2 + \beta(p_{initial} - 0.2))$ to obtain a calculated aged value. Where $p_{initial}$ is the Initial Solar Reflectance and β is the Soiling Resistance which equals 0.65 for field applied coatings or 0.70 for other applications.
4. Check box if the Aged Reflectance is a calculated value using the equation above.
5. Calculate the SRI value by using the SRI- Worksheet at <http://www.energy.ca.gov/title24/> and enter the resulting value in the SRI Column above and attach a copy of the SRI- Worksheet to this CF1R form. (See also form CF1R-ENV-04-E)

To apply **Liquid Field Applied Coatings**, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §110.8(i)4. Select the applicable coating:

- Aluminum-Pigmented Asphalt Roof Coating Cement-Based Roof Coating Other _____

NOTE: When a Cool Roof is required, the installing contractor shall complete and make available form **CF2R-ENV-05-E, the CRRC Label, and the SRI Calculation as Applicable** for final inspection.

Declaration Statement

- I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is accurate and complete.
- I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Parts 1 and 6 of the California Code of Regulations.

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|-----------------|------------|
| Name: | Signature: |
| Company: | Date: |
| Address: | License: |
| City/State/Zip: | Phone: |

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300.