

2022 Prescriptive Certificate of Compliance: Residential Reroof		CF1R-ALT-ReRoof	
Project Address:		Climate Zone 12	Permit #
Enforcement Agency: City of BENICIA		Date:	

ROOFING PRODUCTS (COOL ROOFS) §150.2(b)11
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)11i or 150.2(b)11ii.

150.2(b)11i
Steep-sloped roofs shall have a minimum aged solar reflectance of 0.20 and a minimum thermal emittance of 0.75, or a minimum SRI of 16.

150.2(b)11ii
Low-Sloped roofs shall have an aged solar reflectance equal to or greater than 0.63 and a thermal emittance equal to or greater than 0.75, or a minimum SRI of 75.

Check applicable **alternative** or **exception** below if the roof alteration is exempt from the roofing product "Cool Roof" requirements:
Alternatives to §150.2(b)11i, Steep-slope roof (pitch > 2:12)

Building has at least R-38 ceiling insulation

Buildings with a radiant barrier in the attic, where the radiant barrier is not installed directly above spaced sheathing, meeting the requirements of Section 150.1(c)2

Building has no ducts in the attic

Buildings with R-2 or greater continuous insulation above or below the roof deck **Exceptions to §150.2(b)11i, Steep-slope roof (pitch > 2:12)**

Roof area covered by building integrated photovoltaic panels or building integrated solar thermal panels is not required to meet minimum requirements for reflectance, thermal emittance or SRI.

Roof constructions with a weight of at least 25 lb/ft² are exempt from minimum requirements for aged solar reflectance and thermal emittance, or SRI.

Exception to §150.2(b)11ii, Low-slope roof (pitch ≤ 2:12)

The aged solar reflectance can be met by using insulation at the roof deck specified in Table 150.2-B.

Roof area covered by building integrated photovoltaic panels or building integrated solar thermal panels is not required to meet the minimum requirements for aged solar reflectance, thermal emittance or SRI.

Roof constructions with a weight of at least 25 lb/ft² are exempt from the minimum requirements for aged solar reflectance and thermal emittance, or SRI.

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"/> ⁴			

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

- 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
- Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
- 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.
- Check box if the Aged Reflectance is a calculated value using the equation above.
- 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)

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	
<ul style="list-style-type: none"> 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. 	
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.