



**CITY OF HIGHLAND
BUILDING & SAFETY DIVISION**

27215 Baseline St., Highland Ca, 92346

Permit Counter: (909) 864-8732 X 232 | Inspection Request Line 909-864-8732 X 228

Re-roofing and The 2019 California Energy Code Compliance Requirements for Cool Roof

For non-residential re-roofing projects when more than 50 % of the roof area or more than 2,000 sq. of the roof, whichever is less, is being replaced, the roofing product must meet the requirements for a cool roof, see exceptions below. For low-rise residential roofs, when more than 50 % of the exterior surface is being replaced, the roofing product must meet the requirements for a cool roof, see exceptions below. Roof area covered by building integrated photovoltaic and/or solar thermal panels is not required to comply with cool roof requirements. Roof areas not covered by photovoltaic or solar thermal panels shall comply with cool roofing requirements. (2019 California Energy Code § 150.2(b)1)

Within the City of Highland & Climate Zone 10			
		Low-Rise Residential	Non-Residential
Low Sloped Roofs < 2:12	Aged Thermal Reflectance	N/R	.63 Or SRI of 75
	Thermal Emittance	N/R	.75 Or SRI of 75
Steep Sloped Roofs > or equal to 2:12	Aged Thermal Reflectance	.20 Or SRI of 16	.20 Or SRI of 16
	Thermal Emittance	.75 Or SRI of 16	.75 Or SRI of 16

	Solar Reflectance	Initial 0.00	Weathered Pending
	Thermal Emittance	0.00	Pending
	Rated Product ID Number	----	
	Licensed Seller ID Number	----	
	Classification	Production Line	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			

Exceptions and Alternatives which may apply to low-rise residential re-roof projects with a roof slope equal to or greater than 2:12 (Steep slope roofs):

- (a) Mass roof 25 lbs. or greater (uncommon situation such as sod roofs);
- (b) Air space 1 inch from top of roof deck o bottom of roofing;
- (c) Roofing product has a profile ratio rise to width of 1 to 5 for 50% or greater of the width of the product
- (d) Existing ducts in the attic care insulated and sealed in accordance to Section 150.1(c)9;
- (e) Roof has at least R-38 ceiling insulation;
- (f) Roof has Radiant Barrier meeting the requirements of section 150.1(c)2;
- (g) Buildings that have no ducts in the attic;
- (h) R-2 or greater insulation over roof deck.

A Certificate of Compliance Energy form CF1R-ALT-05-E must be completed as applicable to a re-roof project, and submitted with the permit applications. Please see the user instructions in form CF1R-ALT-05-E and the form must be signed by the Document author and the Building Designer (i.e. the contractor or home owner).

At final inspection an Installation Certificate form CF2R-ALT-05-E must be completed by the installing contractor and submitted to the owner and reviewed by the building inspector.

Roofing products that are used for compliance with the energy standards are required to be tested and labeled by the Cool Roof Rating Council (CRRC). The roofing products manufacturer must have its roofing product tested for solar reflectance and thermal emittance and be listed in the CRRC's Rated Product Directory (www.coolroofs.org) and be labeled according to the CRRC procedures.

For more information you can visit the California Energy Commission website are <https://www.energy.ca.gov/>