

**CITY OF MENIFEE**  
**BUILDING AND SAFETY DEPARTMENT**  
**ROOFING MATERIAL SPECIFICATIONS**  
BASED UPON THE  
**2019 ENERGY EFFICIENCY STANDARDS**

Roofing Material Specification for new residential construction, additions and alterations (including reroof) must comply with the following:

**Note:** The following specifications only apply to *Prescriptive Compliance Methods* and *Performance Methods* requiring cool roofs.

Roof design slope greater than 2:12 require:

- a. Roofing products with a *density of less than 5 lbs/sq. ft.* (generally asphalt shingle and metal products. Climate Zones 10-15 only: Shall have a minimum solar reflectance of 0.20 and a minimum thermal emittance of 0.75 or a SRI of at least 16.
- b. Roofing products with a *product density of 5lbs/sq.ft. or more* (generally clay and concrete tiles) in all climate Zones: shall have a minimum solar reflectance of 0.15 and a minimum thermal emittance of 0.75 or a SRI at least 10.

Roof design slope of 2:12 or less:

- a. (All roofing products, regardless of density). Climate Zones 13 & 15: Shall have a minimum solar reflectance of 0.55 and a minimum thermal emittance of 0.75 or a SRI of at least 0.64.

**Note:** For roof covering alterations less than 1,000 square feet or 50% or less of the roof is being replaced (whichever is smaller), compliance with the solar reflectance or thermal emittance is not necessary. This exemption applies to alterations only.

**Note:** For roof alterations, many exemptions from compliance with the “cool roof” specifications exist. Below are the exemptions as listed in the 2008 Building Energy Efficiency Standards, Section 152(b)1.H. Specifying the allowed exemption to be used is required at time of permit issuance.

Alternatives to the Cool Roof requirement may be one of the following:

1. Insulation with a thermal resistance of at least 0.85hr. sq. ft. F/Btu or at least  $\frac{3}{4}$  in. air space is added to the roof deck over an attic; or
2. If existing ducts in the attic are insulated and sealed according to CEC Regulations Section 151(f)10; Or
3. Buildings with at least R-30 ceiling insulation; or
4. If the building with a radiant barrier not he attic meeting the requirements of Section 151(f)2; or
5. Building with no ducts in the attic; or
6. If in Climate Zones 10, 11, 13, and 14, R-3 or greater roof deck insulation above vented attic.


A Certificate of compliance Energy Form “**CF-1R-ALT**” must be completed and submitted with the permit application. The “**CF-1R-ALT**” form must be signed by the documentation Author and the Building Designer (i.e. Contractor or Home Owner).

At final Inspection an Installation Certificate Form “**CF-6R-ENV-01**” must be completed by the installing contractor and submitted to the owner and the building department.

***Note: Currently Effective, Section 1510.3 -“New roof coverings shall not be installed without first removing all existing layers of roof coverings where ....” Section 1503.3, 3- (removal shall occur) “Where an existing roof has two or more applications of any type of roof covering.”***

Roofing products that are used for compliance with 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 (see <http://www.coolroofs.org>) and be labeled according to CRRC procedures.

	<u>Initial</u>	<u>Weathered</u>	
	Solar Reflectance	0.00	Pending
	Thermal Emittance	0.00	Pending
	Rated Product ID Number	-----	
Licensed Seller ID Number	-----		
Classification	Production Line		
<p>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.</p> <p>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</p>			

Attached are the CF-1R-ALT and the CF-6R-ENV-01 forms or for more information, please visit the California Energy Commissions webpage at [www.energy.ca.gov](http://www.energy.ca.gov).