



City of Jurupa Valley Building Department



CEC-CF1R-ALT-05-E

(Page 1 of 4)

CERTIFICATE OF COMPLIANCE

RESIDENTIAL RE-ROOF / REPLACEMENTS

This compliance document is only applicable to residential roof replacements that do not require HERS verification for compliance.

Alterations that utilize closed cell Spray Polyurethane Foam (ccSPF) with a density of 1.5 to less than 2.5 pounds per cubic foot having an R-value greater than 5.8 per inch, or open cell Spray Polyurethane Foam (ocSPF) with a density of 0.4 to less than 1.5 pounds per cubic foot having an R-value of 3.6 per inch, shall complete and register a CF1R-ALT-01 with a HERS Provider Data Registry.

If more than one person has responsibility for installation of the items on this certificate, each person shall prepare and sign a certificate applicable to the portion of construction for which they are responsible. Alternatively, the person with chief responsibility for construction shall prepare and sign this certificate for the entire construction. All applicable Mandatory Measures shall be met. Temporary labels shall not be removed before verification by the building inspector.

Project Details

Field Name	Data Entry	Field Name	Data Entry
Project Name	Re-Roof	Enforcement Agency	City of Jurupa Valley Building Department
Project Address		Permit Number	
City and Zip Code	Jurupa Valley, CA <small>(Zip Code)</small>	Date Permit Issued	
Climate Zone	10	Roof Area (ft ²)	

Contractor Name: <div style="background-color: #e0e0ff; height: 20px; width: 95%; margin-top: 5px;"></div>	License #: <div style="background-color: #e0e0ff; height: 20px; width: 95%; margin-top: 5px;"></div>	Phone: <div style="background-color: #e0e0ff; height: 20px; width: 95%; margin-top: 5px;"></div>	E-mail: <div style="background-color: #e0e0ff; height: 20px; width: 95%; margin-top: 5px;"></div>
---	---	---	--



City of Jurupa Valley Building Department



PRESCRIPTIVE RESIDENTIAL ALTERATIONS THAT DO NOT REQUIRE HERS FIELD VERIFICATION

C. Roof Replacement (Section 150.2(b)1H)

NOTES:

- Roof area covered by building integrated photovoltaic (PV) panels and solar thermal panels are exempt from the above Cool Roof requirements.
- Liquid field applied coatings must comply with installation criteria from Section 110.8(i)4.

Field	Field Name	Steep Slope Roof (2:12 or Greater)	Low Slope Roof (less than 2:12)	Other
01	Method of Compliance			
02	Roof Pitch			
03	Exception			
04	CRRC Product ID Number			
05	Product Type			
06	R-value Deck Insulation			
07	Proposed Initial Solar Reflectance			
08	Proposed Aged Solar Reflectance			
09	Proposed Thermal Emittance			
10	Proposed SRI (Optional)			
11	Minimum Required Aged Solar Reflectance	0.20 Minimum	0.63 Minimum	
12	Minimum Required Thermal Emittance	0.75 Minimum	0.75 Minimum	
13	Minimum Required SRI (Optional)	16 Minimum	75 Minimum	



City of Jurupa Valley

Building Department



(Page 3 of 4)

CERTIFICATE OF COMPLIANCE USER INSTRUCTIONS

Prescriptive Residential Alterations That Do Not Require HERS Field Verification

C. Roof Replacement (Prescriptive Alteration, Section 150.2(b)1H)

When 50% or more of the roof is being replaced the roofing requirements are triggered. Any areas of roof covered by building integrated photovoltaic panels and solar thermal panels are exempt, but the area of roof not covered by photovoltaic panels would still need to meet any applicable cool roof requirements. Additionally, there are many alternatives/exceptions to when a cool roof is required.

When the roof is steep-sloped (pitch greater than or equal to 2:12) the roof requirements include a cool roof in climate zones 4 and 8-15. The minimum requirement is 0.20 Aged Solar Reflectance, 0.75 Thermal Emittance, or a minimum SRI of 16.

1. Method of Compliance: Indicate if the method of compliance is going to be based on Aged Solar Reflectance and Thermal Emittance, the Solar Reflectance Index (SRI), or an Exception.
2. Roof Pitch: Expressed as 4:12, for example, which means the roof rises 4 foot within a span of 12 feet. When roofs have multiple pitches the requirements are based on the pitch of 50 percent or more of the roof.
3. Exception: If meeting one of the exceptions. Indicate which exception is, or will be, met.

EXCEPTIONS AND ALTERNATIVES FOR STEEP SLOPE ROOFS:

- (a) Mass roof 25 pounds per square foot (lbs/ft²) or greater (uncommon situation such as sod roof);
- (b) Roof has ceiling assemblies with a U-factor less than or equal to 0.025 or R-38 insulation;
- (c) Roof has a radiant barrier not installed directly above spaced sheathing meeting 150.1(c)2;
- (d) Nin Climate Zones 2, 4, 9, 10, 12 and 14, no ducts are installed in the attic; or
- (e) R-2 continuous insulation above the roof deck.

In climate zones 4 and 6-15, when there is a low-sloped roof (pitch less than 2:12) the cool roof requirements are for a minimum Aged Solar Reflectance of 0.63, a minimum 0.75 Thermal Emittance, or a minimum SRI of 75.

EXCEPTIONS AND ALTERNATIVES FOR LOW SLOPE ROOFS:

- (a) Mass roof 25 pounds per square foot (lbs/ft²) or greater (uncommon situation such as sod roof);
- (b) No ducts are installed in the attic; or
- (c) Roof deck installation trade off by installing roof deck insulation, a lower aged solar reflectance is required: In Climate Zones 6 and 7 R-2 (0.60), R-4 (0.55), R-6 (0.50), R-8 (0.45), R-10 (no requirement); In Climate Zones 2, 4 and 8-15 R-16 (0.60), R-18 (0.55), R-20 (0.50), R-24 (no requirement).



City of Jurupa Valley Building Department



NOTE: If one of the exceptions above has been selected then the rest of Section C. is not required.

4. CRRC Product ID Number: The CRRC Product ID Number is obtained from the [Cool Roof Rating Council’s Rated Product Directory](#). Products are listed by manufacturer, brand, type of installation, roofing material, and color, as well as product performance.
5. Product type: See [Cool Roof Rating Council’s directory](#). Generally product types include single-ply roof, wood shingles, asphalt roof, metal roof, tile roof.
6. R-value Deck Insulation: If one of the exceptions selected includes adding roof deck insulation, indicate the R-value of the insulation.
7. Proposed Initial Solar Reflectance: Based on the product chosen from the [Cool Roof Rating Council’s Rated Product Directory](#). If using default assumption indicate N/A since the Aged Solar Reflectance is available.
8. Proposed Aged Solar Reflectance: Value is from the [Cool Roof Rating Council’s Rated Product Directory](#). If the aged value is not available, calculate the Aged Solar Reflectance using the Solar Reflectance Index (SRI) Calculator located on the California Energy Commission website or the aging equation $\rho_{aged} = [0.2 + \beta(\rho_{initial} - 0.2)]$, where $\rho_{initial}$ = the initial solar reflectance and soiling resistance β is listed by product type below.

VALUES OF SOILING RESISTANCE β BY PRODUCT TYPE

Product Type	CRRC Product Category	β
Field-Applied Coating	Field-Applied Coating	0.65
Other	Not A Field-Applied Coating	0.70

9. Proposed Thermal Emittance: From the product specification default value. If using a calculated Solar Reflectance Index (SRI) place the Thermal Emittance used to calculate SRI.
10. Proposed Solar Reflectance Index (SRI): It is optional to meet the SRI but if chosen to do so, use the Solar Reflectance Index (SRI) Calculator found on the [California Energy Commission website](#).
11. Minimum Required Aged Solar Reflectance: Based on climate zone and roof slope.
12. Minimum Required Thermal Emittance: Based on climate zone and roof slope.
13. Minimum Required SRI: Based on climate zone and roof slope.

NOTE: If the cool roofing requirements will be met by a liquid field applied coating, Section 110.8(i)4 requires the coating be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the manufacturer.