

Prescriptive Certificate of Compliance: Residential		CF-IR-ALT
<i>Residential Alterations For REROOFING</i>		(Page 1 of 1)
Site Address:	Climate Zone: 10	# of Stories:
Building Type <input type="checkbox"/> Single Family <input type="checkbox"/> Multi Family	Enforcement Agency: City of Ontario	Date:
Existing roofing type:	New roofing type:	
Total roof Area: _____ft ²	Total reroof Area: _____ft ²	% reroof Area:

COOL ROOF REQUIREMENTS FOR LOW-RISE RESIDENTIAL BUILDINGS IN CLIMATE ZONE 10						
<p><i>When the area of exterior roof surface to be replaced exceeds more than 50% of the existing roof area, or more than 1,000 ft², whichever is less, the new roofing area must meet the "Cool Roof" requirements:</i></p> <ul style="list-style-type: none"> - For low sloped roof (pitch ≤ 2:12): Cool roof not required - For steep sloped roof (pitch > 2:12) with density of <u>less than 5 lb/ft²</u>: minimum Aged Solar Reflectance = 0.20 and minimum Thermal Emittance = 0.75, OR minimum Solar Reflectance Index (SRI) = 16. - For steep sloped roof (pitch > 2:12) with density of <u>5 lb/ft² or more</u>: minimum Aged Solar Reflectance = 0.15 and minimum Thermal Emittance = 0.75, OR minimum Solar Reflectance Index (SRI) = 10. 						
<p>Check applicable alternatives below if the roof alteration is exempt from the roofing product "Cool Roof" requirements. Note: If any one of the alternatives below is checked, the Aged Solar Reflectance and Thermal Emittance requirements for roofing products are not applicable. Do not fill table below.</p> <p>Alternatives for steep-sloped roof (pitch > 2:12)</p> <p><input type="checkbox"/> Insulation with a thermal resistance of at least 0.85 hr·ft²·° F/Btu or at least a 3/4 inch air-space is added to the roof deck over an attic; or</p> <p><input type="checkbox"/> Existing ducts in the attic are insulated and sealed according to Energy Standards § 151(f)10; or</p> <p><input type="checkbox"/> Building has 1 ft² of free ventilation area of attic ventilation for every 150 ft² of attic floor area, and at least 30 percent of the free ventilation area is within 2 feet vertical distance of the roof ridge; or</p> <p><input type="checkbox"/> Building has at least R-30 ceiling insulation; or</p> <p><input type="checkbox"/> Building has radiant barrier in the attic; or</p> <p><input type="checkbox"/> Building has no ducts in the attic; or</p> <p><input type="checkbox"/> Building has R-3 or greater roof deck insulation above vented attic; or</p> <p><input type="checkbox"/> Roofing area covered by building integrated photovoltaic panels and solar thermal panels; or</p> <p><input type="checkbox"/> Roof constructions that have thermal mass over the roof membrane with at least 25 lb/ft².</p>						
<p>Note: If no CRRC-1 label is available, this compliance method cannot be used, use the Performance Approach to show compliance, otherwise, Check the applicable box below if Exempt from the "Cool Roof" Requirements:</p>						
CRRC Product ID Number ¹	Roof Slope ≤ 2:12 > 2:12	Product Weight < 5lb/ft ² ≥ 5lb/ft ²	Product Type ²	Aged Solar Reflectance ^{3,4}	Thermal Emittance	SRI ⁵
	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> ⁴		
<p>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</p> <p>2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.</p> <p>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 $(0.2+0.7(\rho_{\text{initial}} - 0.2))$ to obtain a calculated aged value. Where ρ is the Initial Solar Reflectance.</p> <p>4. Check box if the Aged Reflectance is a calculated value using the equation above.</p> <p>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 the CF-IR.</p>						
<p>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 Energy Standards § 118(i)4. Select the applicable coating:</p>						
<input type="checkbox"/> Aluminum-Pigmented Asphalt Roof Coating		<input type="checkbox"/> Cement-Based Roof Coating		<input type="checkbox"/> Other _____		

Documentation Author's Declaration Statement	
• I certify that this Certificate of Compliance documentation is accurate and complete.	
Name: <input type="checkbox"/> Owner <input type="checkbox"/> Authorized agent <input type="checkbox"/> Contractor	Signature:
Company :	Contractor license #:
Address:	Phone:
City/State/Zip:	Date: