



INSTALLATION CERTIFICATE **CF-6R-ENV-01**

Envelope – Insulation; Roofing; Fenestration **(Page 1 of 4)**

Site Address:	Enforcement Agency:	Permit Number:
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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 with check boxes require to be checked to ensure the mandatory measures have been met.

Description of Insulation

1. RAISED FLOOR

Material: _____ Brand Name: _____
 Thickness (inches): _____ Thermal Resistance (R-Value): _____
 §150(d): Minimum R-13 insulation in raised wood-frame floor or equivalent U-factor.

2. SLAB FLOOR/PERIMETER

Material: _____ Brand Name: _____
 Thickness (inches): _____ Thermal Resistance (R-Value): _____
 Perimeter Insulation Depth (inches): _____
 §150(l): Water absorption rate for the insulation material alone without facings is no greater than 0.3%; water vapor permeance rate is no greater than 2.0 perm/inch and shall be protected from physical damage and UV light deterioration.

3. EXTERIOR WALL

a. Insulation Type (e.x. Batt, Loose Fill, Spray Foam) _____ a. Thermal Resistance (R-Value): _____

 b. . Insulation Type (e.x. Batt, Loose Fill, Spray Foam) _____ b. Thermal Resistance (R-Value): _____

 Brand: _____

Spray/Loose fill) Installed Actual Thickness _____ Spray/Loose fill)
 (inches): _____ Contractor’s min installed weight/ft² _____ lb
 Manufacturer’s installed weight per square foot to achieve Thermal Resistance (R-Value)
 §150(c): Minimum R-13 insulation in wood-frame wall or equivalent U-factor.

Exterior Foam Sheathing (rigid Insulation)

Material: _____ Brand Name: _____
 Thickness (inches) : _____ Thermal Resistance (R-Value) : _____

4. FOUNDATION WALL

Material: _____ Brand Name: _____
 Thickness (inches): _____ Thermal Resistance (R-Value): _____

5. CEILING

Batt or Blanket Type: _____ Brand Name: _____
 Loose Fill Type: _____ Thermal Resistance (R-Value): _____
 Spray Foam Type: _____ Brand Name: _____
 Installed Actual Thickness (inches): _____ Contractor’s min installed weight/ft² _____ lb
 Manufacturer’s installed weight per square foot to achieve Thermal Resistance (R-Value):
 §150(a): Minimum R-19 insulation in wood-frame ceiling or equivalent U-factor.

6. ATTIC ROOF INSULATION AND/OR ATTIC RADIANT BARRIER

Material: _____ Brand Name: _____
 Material: _____ Brand Name: _____
 Thickness (inches): _____ Thermal Resistance (R-Value): _____
 §118(a): Insulation installed meets Standards for Insulating Material.



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§150(g): Mandatory Vapor barrier installed in Climate Zones 14 or 16.

ROOFING PRODUCTS (COOL ROOFS) §151(f)12

Check applicable box below if the newly installed roof is exempted from the roofing product “Cool Roof” requirements. Note: If any one of the boxes are checked below, the Aged Solar Reflectance and Thermal Emittance requirements for roofing products in §118(i) are not applicable. Do not fill table below.

- Cool Roofs Not Required in Climate Zones 1-12, 14, and 16 with a Low Sloped. Less or 2:12 pitch.
- Cool Roofs Not Required in Climate Zones 1- 9 and 16 with a Steep-Sloped Roofs (pitch > than 2:12) and product unit weighting less than 5lb/ft².

Other Exceptions

- Roofing area covered by building integrated photovoltaic panels and solar thermal panels are exempt from the above Cool Roof criteria.
- Roof constructions that have thermal mass over the roof membrane with at least 25 lb/ft² is exempt from the above Cool Roof criteria.

CRRC Product ID Number ¹	Roof Slope		Product Weight		Product Type ²	Aged Solar Reflectance ^{3,4}		Thermal	
	≤ 2:12	> 2:12	< 5lb/ft ²	≥ 5lb/ft ²		Emittance			
	<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			

1. CRRC-1 label information is available is on the package of the roofing product being installed and attach the CRRC label to this form.
2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
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 $(0.2+0.7(p_{initial} - 0.2))$ to obtain a calculated aged value. Where p is the Initial Solar Reflectance.
4. Check box if the Aged Reflectance is a calculated value using the equation above.

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 §118(i)4. Select the applicable coating:

Aluminum-Pigmented Asphalt Roof Coating
 Cement-Based Roof Coating
 Other _____

FENESTRATION/GLAZING

Item	Manufacturer/Brand Name (GROUP LIKE PRODUCTS)	Product U-factor ¹	Product SHGC ¹	# of Panes	NFRC Certified ^{1, 2}	Total Quantity of Like Product (Optional)	Area ft ²	Add. Exterior Shading Dev. or Overhang	Comments/ Location/ Special Features
1									
2									
3									
4									
5									
6									
7									
8									

1. Use values from a fenestration product’s NFRC Certified Label. For fenestration products without an NFRC label, use the default values from Section 116, Table 116-A and 116-B of the 2008 Energy Efficiency Standards.
2. NFRC Label Certificates shall not be removed until the building inspector has verified the efficiency. Enter Yes or No.

- §116(a)1: Doors and windows between conditioned and unconditioned spaces designed to limit air leakage.
- §116(a)2 and 3: Actual fenestration products installed are equivalent to or have a lower U-factor and/or a lower SHGC than that specified on the Certificate of Compliance (Form CF-1R).



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- §116(a)4: Fenestration products (except field-fabricated windows) have a label listing the certified U-Factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration that meets the requirements of §10-111(a)
- §117: Exterior doors and windows weather-stripped; all joints and penetrations caulked and sealed.

DECLARATION STATEMENT

- I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for construction, or an authorized representative of the person responsible for construction (responsible person).
- I certify that the installed features, materials, components, or manufactured devices identified on this certificate (the installation) conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency.
- I reviewed a copy of the Certificate of Compliance (CF-1R) form approved by the enforcement agency that identifies the specific requirements for the installation. I certify that the requirements detailed on the CF-1R that apply to the installation have been met.
- **I will ensure that a completed, signed copy of this Installation Certificate shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Installation Certificate is required to be included with the documentation the builder provides to the building owner at occupancy.**

ENVELOPE – INSULATION; ROOFING; FENESTRATION

CEC-CF-6R-ENV-01 (Revised 08/09)

CALIFORNIA ENERGY COMMISSION



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Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)		
Responsible Person's Name:		Responsible Person's Signature:
CSLB License:	Date Signed:	Position With Company (Title):