

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST **ENV-1C**
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Project Name:	Date:	Climate Zone:
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Project Address:	Conditioned Floor Area:
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General Information			
Building Type:	<input type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel Guest Room
	<input type="checkbox"/> Schools (Public School)	<input type="checkbox"/> Relocatable Public School Bldg.	<input type="checkbox"/> Conditioned Spaces <input type="checkbox"/> Unconditioned Spaces
	<input type="checkbox"/> Skylight Area for Large Enclosed Space $\geq 8000 \text{ ft}^2$ (If checked include the ENV-4C with submittal)		
Phase of Construction:	<input type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration
Approach of Compliance:	<input type="checkbox"/> Component	<input type="checkbox"/> Overall Envelope TDV Energy	<input type="checkbox"/> Unconditioned (file affidavit)
Front Orientation: N, E, S, W or in Degrees:	_____°		

FIELD INSPECTION ENERGY CHECKLIST

OPAQUE SURFACE DETAILS														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Tag/ID	Assembly Type	Area	Orientation N, S, W, E	Standard U-Factor	Joint Appendix U-Factor	Joint Appendix Table	Cavity R-Value	Exterior R-Value	Interior R-Value	Exterior Furring	Interior Furring	Condition Status	Pass	Fail ²
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>
													<input type="checkbox"/>	<input type="checkbox"/>

1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
 2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance.

FENESTRATION SURFACE DETAILS												
1	2	3	4	5	6	7	8	9	10	11	12	
Tag/ID	Fenestration Type	Surface Area	Orientation N, S, W, E	# of Panes	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC Source	Overhang	Conditions Status	Pass	Fail ²
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

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									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

3. 1. See Instructions in the Nonresidential Compliance Manual, page 3-96.
 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

ROOFING PRODUCT (COOL ROOFS)

(Note if the roofing product is not CRRC certified, this compliance approach cannot be used). Go to Overall Envelope Approach or Performance Approach.

<i>CHECK APPLICABLE BOX BELOW IF EXEMPT FROM THE ROOFING PRODUCT "COOL ROOF" REQUIREMENTS:</i>	Pass	Fail ¹	NA
<input type="checkbox"/> Roofing compliance <u>not</u> required in Climate Zones 1 and 16 with a Low-Sloped. 2:12 pitch or less.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Roofing compliance <u>not</u> required in Climate Zone 1 with a Steep-Sloped with less than 5 lb/ft ² . Greater than 2:12 pitch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Low-sloped Wood framed roofs in Climate Zones 3 and 5 are exempted solar reflectance and thermal emittance or SRI that have a U-factor of 0.039 or lower. See Opaque Surface Details roof assembly, Column H of ENV-2C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Low-sloped Metal Building Roofs in Climate Zones 3 and 5 are exempted solar reflectance and thermal emittance or SRI that have a U-factor of 0.048 or lower. See Opaque Surface Details roof assembly below, Column H of ENV-2C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> The roof area covered by building integrated photovoltaic panels and building integrated solar thermal panels are exempted solar reflectance and thermal emittance or SRI. See spreadsheet calculator at www.energy.ca.gov/title24/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Roof constructions that have thermal mass over the roof membrane with a weight of at least 25 lb/ft ² is exempt from the Cool Roof criteria below.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> High-rise residential buildings and hotels and motels with low-sloped roofs in Climate Zones 1 through 9, 12 and 16 are exempted from the low-sloped roofing criteria.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. If Fail then describe on this page of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

CRRC Product ID Number¹	Roof Slope		Product Weight		Product Type ²	Aged Solar Reflectance ³	Thermal Emittance	SRI ⁵	Pass	Fail ⁶
	≤ 2:12	> 2:12	< 5lb/ft ²	≥ 5lb/ft ²						
	<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"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴			<input type="checkbox"/>	<input type="checkbox"/>
	<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"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴			<input type="checkbox"/>	<input type="checkbox"/>

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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
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 $(0.2 + 0.7(\rho_{initial} - 0.2))$ to obtain a calculated aged value. Where ρ is the Initial Solar Reflectance. From the Cool Roof Rating Council's Rated Product Directory.
4. Check box if the Aged Reflectance is a calculated value using the equation above.
5. The SRI value needs to be calculated from a spreadsheet calculator at <http://www.energy.ca.gov/title24/>
6. If Fail then describe on this page of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

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:

<input type="checkbox"/> Aluminum-Pigmented Asphalt Roof Coating	<input type="checkbox"/> Cement-Based Roof Coating	<input type="checkbox"/> Other _____
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Discrepancies:

Required Acceptance Tests

Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for Envelope Fenestrations system. The designer is required to check the acceptance tests and list all the fenestration products that require an acceptance test. If all the site-built fenestration of a certain type requires a test, list the different fenestration products and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:

Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new fenestration is installed in the building or space shall be certified as meeting the Acceptance Requirements.
 The ENV-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the ENV-2A for each different fenestration product line must be provided to the owner of the building for their records.

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Test Description	Number of like Products	ENV-2A Building Envelope Acceptance Test	Test Performed By:
Fenestration Products Name or ID Requiring Testing or Verification		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	

Documentation Author's Declaration Statement

- I certify that this Certificate of Compliance documentation is accurate and complete.

Name:	Signature:	
Company:		Date:
Address:		If Applicable: CEA # CEPE #
City/State/Zip:		Phone:

Principal Designer's Declaration Statement

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the design.
- This Certificate of Compliance identifies the envelope features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name:	Signature:	
Company:		Date:
Address:		License #
City/State/Zip:		Phone:

Envelope Mandatory Measures

Indicate location on building plans of Mandatory Envelope Measures Note Block: _____

INSTRUCTIONS TO APPLICANT ENVELOPE COMPLIANCE & WORKSHEETS (check box if worksheet are included)


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For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Compliance Manual.

<input type="checkbox"/>	ENV-1C	Certificate of Compliance and Field Inspections Energy Checklist. Required on plans for all submittals.
<input type="checkbox"/>	ENV-2C	Use with the Envelope Component Approach. Optional on plans.
<input type="checkbox"/>	ENV-3C	Use with the Overall Envelope TDV Energy Approach. Optional on plans.
<input type="checkbox"/>	ENV-4C	Use when minimum skylight requirements for large enclosed spaces are required in climate zones 2 through 15. Optional on plans.