

CERTIFICATE OF INSTALLATION		NRCI-ENV-E	
<i>This Certificate of Installation is used to document the installation of envelope features, materials, components, and manufactured devices required to demonstrate compliance with Title 24, Part 6 per §10-103(a)3 for nonresidential, hotel/motel and high-rise residential occupancies.</i>			
Project Name:		Report Page:	
Project Address:		Date Prepared:	

Commented [BSN1]: This is a concept draft circulating for feedback from installers, general contractors and building inspectors.
 Please send feedback to Alexis.Markstrum@energy.ca.gov

A. GENERAL INFORMATION			
01	Project Location (city):	05	Authority Having Jurisdiction:
02	Zip Code:	06	Permit #:
03	Date of Permit Set used for construction:	07	Date of As-built Set:
04	Name of Permit Set used for construction:	08	Name of As-built Set:

Commented [BSN2]: These fields will tell the inspector if the installer was using a different set for construction than what was permitted, and if an as-built set was created.

Commented [BSN3]: This table will tell the inspector where the install differed from the permit set.

B. INSTALLATION DETAILS				
<i>Indicate the building feature you or your company installed below in column 01 (select all that apply). Then review the permitted plans, specifications and Energy Code form* and select all Energy Code items in column 02 where there is a difference between the permitted documents and as-builts. Note the differences for these Energy Code items in column 03.</i>				
01	02	03	04	
Select building feature installed:	Select all Energy Code items where permit set differs from as-builts:	Describe the difference between permitted and as-built:	Field Inspector	
			Pass	Fail
<input type="checkbox"/> Roof Surface	<input type="checkbox"/> Surface material (bitumen, metal, etc.) <input type="checkbox"/> Solar Reflectance or Emittance <input type="checkbox"/> Solar Reflectance Index (SRI) <input type="checkbox"/> Cool Roof Rating Council certification <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>

Commented [BSN4]: There would not be a new row for each assembly, the installer would need to describe here any changes for all roof surfaces on the project. This can be more clearly prompted through an online user interface if the form is completed online.

Commented [BSN5]: If this form is completed online, only the features which have been checked would show up on the form so it would be much shorter.

Commented [BSN6]: If this form is completed online, this checkbox could grey out column 03 for this row.

* Compliance with Title 24, Part 6 (Energy Code) may be via the prescriptive or performance path for envelope features. If envelope features have complied prescriptively, you will see the NRCC-ENV-E form as part of the permit documents. If envelope features have been included in the energy model and complied via the performance path, you will see them on the NRCC-PRF-E form.

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01	02	03	04	
			Pass	Fail
Select building feature installed:	Select all Energy Code items where permit set differs from as-builts:	Describe the difference between permitted and as-built:	Field Inspector	
<input type="checkbox"/> Roof Insulation	<input type="checkbox"/> R-value <input type="checkbox"/> Type (batt, polyurethane foam, etc.) <input type="checkbox"/> Location in assembly <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Ceiling Insulation	<input type="checkbox"/> R-value <input type="checkbox"/> Type (batt, polyurethane foam, etc.) <input type="checkbox"/> Location in assembly <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Wall Insulation	<input type="checkbox"/> R-value <input type="checkbox"/> Type (batt, polyurethane foam, etc.) <input type="checkbox"/> Location in assembly <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Floor Insulation	<input type="checkbox"/> R-value <input type="checkbox"/> Type (batt, polyurethane foam, etc.) <input type="checkbox"/> Location in assembly <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Air Sealing	<input type="checkbox"/> Filling of gaps, cracks, etc. <input type="checkbox"/> No difference between permit set & as-builts for item listed above		<input type="checkbox"/>	<input type="checkbox"/>

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Select building feature installed:	Select all Energy Code items where permit set differs from as-builts:	Describe the difference between permitted and as-built:	Field Inspector	
			Pass	Fail
<input type="checkbox"/> Framing	<input type="checkbox"/> Framing material (metal, wood) <input type="checkbox"/> Framing size (2x4, 2x6, etc.) <input type="checkbox"/> Spacing (16" OC, 18"OC, etc.) <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Drywall	<input type="checkbox"/> Thickness (1/2", 3/8", etc.) <input type="checkbox"/> Number of layers <input type="checkbox"/> Air barrier <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Windows	<input type="checkbox"/> U-factor <input type="checkbox"/> Solar Heat Gain Coefficient (SHGC) <input type="checkbox"/> Visible Transmittance (VT) <input type="checkbox"/> National Fenestration Rating Council (NFRC) Certification <input type="checkbox"/> Frame material (metal, metal with thermal break, etc.) <input type="checkbox"/> Light Shelves/overhangs <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>

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01	02	03	04	
Select building feature installed:	Select all Energy Code items where permit set differs from as-builts:	Describe the difference between permitted and as-built:	Field Inspector	
			Pass	Fail
<input type="checkbox"/> Skylights	<input type="checkbox"/> U-factor <input type="checkbox"/> Solar Heat Gain Coefficient (SHGC) <input type="checkbox"/> Visible Transmittance (VT) <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Doors with less than 25% glass	<input type="checkbox"/> Type of door insulation <input type="checkbox"/> U-factor of door <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Doors with 25% or more glass	<input type="checkbox"/> Type of door insulation <input type="checkbox"/> U-factor of door <input type="checkbox"/> Solar Heat Gain Coefficient (SHGC) of glass in door <input type="checkbox"/> Visible Transmittance (VT) of glass in door <input type="checkbox"/> No difference between permit set & as-builts for all items listed above		<input type="checkbox"/>	<input type="checkbox"/>

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C. ACCEPTANCE TESTS & FIELD VERIFICATION

Fenestration and daylight redirection device installations may require Acceptance Testing to comply with Title 24, Part 6. Please confirm below that coordination has been conducted with a field technician or that there are no applicable NRCA documents required per the permitted NRCC-LTI-E or permitted NRCC-PRF-E*.*

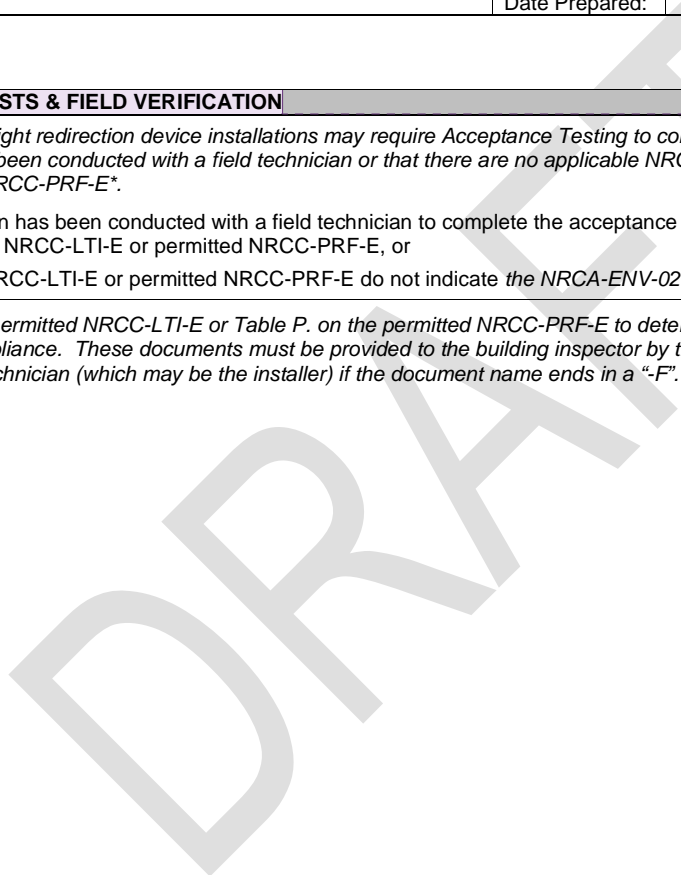
- Field coordination has been conducted with a field technician to complete the acceptance tests and NRCA documents indicated as required by the permitted NRCC-LTI-E or permitted NRCC-PRF-E, or
- The permitted NRCC-LTI-E or permitted NRCC-PRF-E do not indicate *the NRCA-ENV-02-F and NRCA-ENV-03-F* as required documents.

** See Table U. on the permitted NRCC-LTI-E or Table P. on the permitted NRCC-PRF-E to determine if the NRCA-ENV-02-F and NRCA-ENV-03-F are required for compliance. These documents must be provided to the building inspector by the installer before permit final, and must be completed by a field technician (which may be the installer) if the document name ends in a "-F".*

Commented [BSN7]: The intention of this section is to ensure the installer knows when Acceptance Testing is required and confirm they are working with an Acceptance Test Tech. or Field Tech.

This will also help the inspector verify whether the installer worked with the ATT/FT.

If the installer checks that no AT is required, but the NRCC shows that it was, CEC can investigate the reason for the breakdown and figure out an appropriate solution.





DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
1. I certify that this Certificate of Installation documentation is accurate and complete.		
Documentation Author Name:	Documentation Author Signature:	
Documentation Author Company Name:	Date Signed:	
Address:	CEA Certification Identification (If applicable):	
City/State/Zip:	Phone:	
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
I certify the following under penalty of perjury, under the laws of the State of California:		
1. The information provided on this Certificate of Installation is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction, or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Installation and attest to the declarations in this statement (responsible builder/installer), otherwise I am an authorized representative of the responsible builder/installer. 3. The constructed or installed features, materials, components or manufactured devices (the installation) identified on this Certificate of Installation conforms to all applicable codes and regulations, and the installation conforms to the requirements given on the plans and specifications approved by the enforcement agency. 4. I reviewed a copy of the Certificate of Compliance approved by the enforcement agency that identifies the specific requirements for the scope of construction or installation identified on this Certificate of Installation, and I have ensured that the requirements that apply to the construction or installation have been met. 5. I will ensure that a completed signed copy of this Certificate of Installation 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 completed signed copy of this Certificate of Installation is required to be included with the documentation the builder provides to the building owner at occupancy.		
Responsible Builder/Installer Name:	Responsible Builder/Installer Signature:	
Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)	Position With Company (Title):	
Address:	CSLB License:	
City/State/Zip:	Phone	Date Signed: