

Nonresidential forms can be found here: [energycodeace.com/nonresidentialforms](http://energycodeace.com/nonresidentialforms)

Before starting the NRCC-SRA-E on a project, make sure to use a compatible PDF viewer, such as Adobe Acrobat Reader 2017.



This document is used to demonstrate compliance with mandatory requirements in §110.10 for newly constructed buildings which are either high-rise multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance for additions to these building types which add more than 2,000 ft<sup>2</sup> of roof area. Alterations or additions of less than 2,000 ft<sup>2</sup> of roof area are not required to comply with §110.10.

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**A. GENERAL INFORMATION** The selections in Table A will determine which compliance paths open for the project in Table B. Hover over these ? in the NRCC dynamic forms to get helpful tips when filling out the form. →

01 Project Location (city)	San Jose	04 Building Type	Other nonresidential bldg 3 stories or fewer
02 Climate Zone	4	05 Construction Type	New Construction
03 <input type="checkbox"/> Roof is designed for vehicle traffic, parking or for heliport			

**B. PROJECT SCOPE** Selections in table B will trigger other applicable tables throughout this form. ?

Table Instructions: Select the compliance path the project is using to comply per §110.10(b)1B.

My project consists of (check one):

01

Provide Solar Ready Area no exceptions

Exception to Solar Ready Area:  
 Installed Solar Photovoltaic System

Exception to Solar Ready Area:  
 Installed Solar Water Heating System

Exception to Solar Ready Area:  
 Smart Thermostat and Alternative Energy Efficiency Measure

The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.

The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area, as documented in Table G.

The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with §150.1(c)8Biii and Reference Residential Appendix RA4, as documented in Table H.

The project is a high-rise multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.

**C. COMPLIANCE RESULTS** Table C will be consistent on all forms and shows what the compliance results are as the form is filled out. ?

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below

Grey cells show that items were not triggered by the selections in Table B.

Allocated Solar Zone		Installed PV System		Installed SWH System		Smart Tstat and Alternative EE Measure		Compliance Results	
01	02	03	04	05	06	07	08	09	
Required Minimum Area (ft <sup>2</sup> )	Designated Area (ft <sup>2</sup> )	Required Minimum DC Power Rating (Watts)	Designated DC Power Rating (Watts)	Required Minimum Solar Savings Fraction	Designed/Rated Solar Savings Fraction	JAS Compliant Thermostat Specified?	Alternative Energy Efficiency Measure		
(See Table F)		(See Table G)		(See Table H)		(See Table I)			
2,242.8 ≤	2,250 OR	OR	OR	≤	≤	OR			<b>COMPLIES</b>
<b>Sheet A7 Roof Plan</b> Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/plumbing to the electrical service/ water heating system per §110.10(c).									
<b>COMPLIES</b>									

There are multiple ways to show compliance with Solar Ready Areas. In this example, there is more designated area than required minimum area, meeting compliance.

Compliance at the project level must be verified in column 9 at the end of completing this form in order to comply with the Energy Code.



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**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

No exceptional conditions apply to this project.

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

Place any comments for the Building Official here.

There are code section links throughout the dynamic form for you to reference.

**F. ALLOCATED SOLAR ZONE**

*Table Instructions: Complete this table if the project is designating a solar zone to comply with §110.10(b)1B. For new construction consider total roof area; for additions consider newly added roof area.*

Required Minimum Solar Zone									
01	02	03	04	05	06		07	08	
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft <sup>2</sup> )	Total New or Added Roof Area Covered with Skylights (ft <sup>2</sup> )	Minimum Solar Zone Total or Added Roof Area (0.15 x (Roof-Skylit)) (ft <sup>2</sup> )	Method/Tool(s) Used to Determine Annual Solar Access for Potential Zones <sup>1</sup>	Potential Solar Zone Areas: Roof Areas with ≥ 70% Solar Access		Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft <sup>2</sup> )	Required Minimum Solar Zone Area (ft <sup>2</sup> )	
					Low-Sloped Area (<= 2:12 pitch) (ft <sup>2</sup> )	Steep-Sloped Area (> 2:12 pitch), Oriented 90° - 300° (ft <sup>2</sup> )			
	15,000	48	2,242.8					2,242.8	
Total New or Added Roof Area									

*Note: A red arrow points from the value 2,242.8 in column 08 to a yellow box containing the text: "The form will calculate the required minimum solar zone area based on your previous inputs."*

Designated Solar Zone Subareas										
09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low ≤ 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft <sup>2</sup> )	Designated Area (ft <sup>2</sup> )	Subarea Complies?

Table Continued



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**Designated Solar Zone Subareas**

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low ≤ 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft <sup>2</sup> )	Designated Area (ft <sup>2</sup> )	Subarea Complies?
SZ1	A7 Roof Plan	Low-Sloped		Yes	Yes	Yes	Yes	160	750	COMPLIES
SZ2	A7 Roof Plan	Low-Sloped		Yes	Yes	Yes	Yes	160	750	COMPLIES
SZ3	A7 Roof Plan	Low-Sloped		Yes	Yes	Yes	Yes	160	750	COMPLIES
<b>Total Designated Solar Zone Area (ft<sup>2</sup>):</b>									<b>2,250</b>	

In order to comply overall, make sure that the total designated solar zone area is larger than the minimum required area in column 8.

Fill out for all subareas of the solar zone in the project and make sure each one complies in column 19.

**Interconnection Pathways**

Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).

Sheet A7 Roof Plan

<sup>1</sup> FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.

Look out for footnotes as they may provide more clarity when filling out the form.

**G. PERMANENTLY INSTALLED SOLAR PHOTOVOLTAIC (PV) SYSTEM**

This Section Does Not Apply

**H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEM**

This Section Does Not Apply

**I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE**

This Section Does Not Apply



## CERTIFICATE OF COMPLIANCE

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If photovoltaic systems or solar water heating systems are used in the compliance strategy, the SPV or STH NRCI forms will automatically move to "Yes".

**J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCI/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/)*

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-SPV-01-E - Must be submitted for all newly installed Photovoltaic Systems (PV) being used to comply with <a href="#">§110.10(b)1B</a> for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-STH-01-E - Must be submitted for all newly installed Solar Water Heating systems being used to comply with <a href="#">§110.10(b)1B</a> for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	<input type="checkbox"/>	<input type="checkbox"/>

**K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no Certificates of Acceptance applicable to solar ready requirements.*

Print to PDF to then sign a static copy of the form and send to the client. Be sure to save a copy of the dynamic form if any edits need to be made.



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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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

Documentation Author Name:

Documentation Author Signature:

Company:

Signature Date:

Address:

CEA/ HERS 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 Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be 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 Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:

Responsible Designer Signature:

Company :

Date Signed:

Address:

License:

City/State/Zip:

Phone:

For more training on the NRCC forms, visit Energy Code Ace for Decoding Talks:

**2019 Dynamic Form Introduction Series:** [youtube.com/playlist?list=PLVH9EjKDaO5lMvxvJg2oDwq2B3wIjTQ1](https://www.youtube.com/playlist?list=PLVH9EjKDaO5lMvxvJg2oDwq2B3wIjTQ1)

**Decoding NRCC: Let's Talk 2019 Nonresidential Dynamic Forms Handout and Recording:** [energycodeace.com/content/training-ace/courseId=35705](https://energycodeace.com/content/training-ace/courseId=35705)