

Questions and Answers

Residential and Nonresidential

Incorporating Title 24 Onto Your Plans

Section 10-103(a)2 of Title 24, Part 1 states that “for all newly constructed buildings, additions, alterations or repairs regulated by Part 6, the applicant shall file the appropriate Certificate(s) of Compliance on the plans.” The form(s) that constitute the Certificate(s) of Compliance and need to be incorporated onto the plans depend on whether the building permit application is for a residential or nonresidential project. Also, how these forms are “incorporated” onto the plans (imprinted, stapled, attached using sticky-back paper, etc.) requires approval from your local building department.

Residential Applications

The Certificate of Compliance is the **CF-IR** Form, which needs to be incorporated onto the plans. If the building department does not require plans for projects such as alterations, then the CF-IR alone must be submitted to the building department.

Also, depending on the compliance approach, additional compliance documentation may need to be submitted with the plans. Table 2-1 of the 2005 Residential Compliance Manual lists the Compliance Methods and the appropriate forms that are required for submittal when applying for a building permit:

Table 2-1 Documentation Requirements, Prescriptive and Performance Compliance Methods

Phase	Method	Documentation Required when applicable
Building Permit	Prescriptive or Performance	CF-IR, Certificate of Compliance
	Prescriptive or Performance	MF-IR, Mandatory Measures Checklist
	Prescriptive	WS-1R, Thermal Mass Worksheet Checklist
	Prescriptive	WS-2R, Area Weighted Average Calculation Worksheet
	Prescriptive	WS-3R, Solar Heat Gain Coefficient (SHGC)
	Prescriptive	WS-4R, Fenestration – Maximum Allowed Worksheet
	Prescriptive or Performance	WS-5R, Residential Kitchen Lighting Worksheet
Construction	Prescriptive or Performance	CF-SR, Solar Water Heating Calculation Form
	Prescriptive or Performance	CF-6R, Installation Certificate
Field Verification and/or Diagnostic Testing	Prescriptive or Performance	CF-4R, Certificate of Field Verification and Diagnostic Testing

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Nonresidential Applications

There is a Certificate of Compliance for the Envelope, Indoor Lighting, Outdoor Lighting, and Mechanical components of the building.

When showing compliance with the **Envelope** requirements, the ENV-1-C Form is the Certificate of Compliance. The ENV-1-C is a two-part form; both parts need to be incorporated onto the plans. Additional Envelope documentation may need to be submitted with the plans in addition to the ENV-1-C when applicable. These forms are listed in the footnotes of the Envelope Certificate of Compliance (located at the bottom of the ENV-1-C Form):

Component	Documentation Required when applicable
ENV-1-C	Certificate of Compliance. Part 1 of 2 and 2 of 2 are required on plans for all submittals.
ENV-2-C	Use with the Envelope Component compliance method.
ENV-3-C	Use with the Overall Envelope compliance method.
ENV-4-C	Optional. Use for the minimum skylight requirements for large enclosed spaces.

When showing compliance with the **Mechanical** requirements, the **MECH-1-C** is the Certificate of Compliance. The MECH-1-C is a three-part form, and all three parts need to be incorporated onto the plans. Additional Mechanical documentation may need to be submitted with the plans in addition to the MECH-1-C when applicable. These forms are listed in the footnotes of the Mechanical Certificate of Compliance (located at the bottom of the MECH-1-C Form):

Component	Documentation Required when applicable
MECH 1-C	Certificate of Compliance. Part 1 of 3, 2 of 3, and 3 of 3 are required on plans for all submittals
MECH-2-C	Covers Air System / Water System / Hot Water and Pool Requirements. Part 1 of 3, 2 of 3, and 3 of 3 are required for all submittals, and may be on plans.
MECH-3-C	Mechanical Ventilation and Reheat.
MECH-4-C	HVAC (Misc.) Prescriptive.

When showing compliance with the **Indoor Lighting** requirements, the **LTG-1-C** is the Certificate of Compliance. Part 1 of 4 and Part 2 of 4 are required for all submittals and need to be incorporated onto the plans. Part 3 of 4 is required to be incorporated onto the plans **only** if Control Credits are claimed, and Part 4 of 4 is required to be incorporated onto the plans when lighting controls are installed. Additional Indoor Lighting documentation may need to be submitted with the plans in addition to the LTG-1-C when applicable. These forms are listed in the footnotes of the Indoor Lighting Certificate of Compliance (located at the bottom of the LTG-1-C Form):

Component	Documentation Required when applicable
LTG-1-C, Parts 1 of 4 and 2 of 4	Certificate of Compliance. Parts 1 of 4 and 2 of 4 are required on plans for all submittals.
LTG-1-C, Parts 3 of 4	Certificate of Compliance. Part 3 of 4 submittal is required only if control credits are claimed.
LTG-1-C, Parts 4 of 4	Certificate of Compliance. Part 4 of 4 submittal is required when control credits are installed.

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LTG-2-C	Indoor Lighting Schedule
LTG-3-C	Portable Lighting Worksheet
LTG-4-C	Lighting Controls Credit Worksheet
LTG-5-C	Indoor Lighting Power Allowance
LTG-6-C	Tailored Method Worksheet
LTG-7-C	Room Cavity Ratio Worksheet
LTG-8-C	Common Lighting Systems Method Worksheet
LTG-9-C	Line Voltage Track Lighting Worksheet
OLTG-4-C	Signs (See OLTG-4-C Sign Worksheet in Chapter 6, Outdoor Lighting and Signs Chapter).

When showing compliance with the **Outdoor Lighting** requirements, the **OLTG-1-C** is the Certificate of Compliance. The OLTG-1-C is a two part form, and both parts need to be incorporated onto the plans. Additional Outdoor Lighting documentation may need to be submitted with the plans in addition to the OLTG-1-C when applicable. These forms are listed in the footnotes of the Outdoor Lighting Certificate of Compliance (located at the bottom of the OLTG-1-C Form):

Component	Documentation Required when applicable
OLTG-1-C	Certificate of Compliance. Part 1 of 2 and 2 of 2 are required on plans for all submittals.
	Either LTG-1-C or OLTG-1-C may be used for signs as follows: <ol style="list-style-type: none"> 1. Use LTG-1-C if the project consists solely of indoor signs 2. Use LTG-1-C if the project consists of indoor lighting, and outdoor or indoor signs, but no other outdoor lighting. 3. Use OLTG-1-C if the project consists solely of outdoor signs 4. Use OLTG-1-C if the project consists of outdoor lighting, and indoor or outdoor signs, but no other indoor lighting
OLTG-2-C	Lighting compliance summary. Applicable Parts required for ALL outdoor lighting allowances (Except for Signs)
OLTG-3-C	Area calculations worksheets. Applicable parts required for all outdoor area calculations.
OLTG-4-C	Sign lighting compliance. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.

Note: Even though Section 10-103(a)2 of the Administrative Regulations only requires that the Certificate(s) of Compliance be incorporated directly onto the plans, the building department has the discretion of requiring that additional Title 24, Part 6 documents also be incorporated onto the plans. Contacting the building department before applying for a building permit will help you determine if additional forms other than the Certificate(s) of Compliance need to be incorporated onto the plans.

Both the Residential and Nonresidential Compliance Forms are revised and updated periodically for clarification and correctness. We advise that you check our website occasionally for updates of the Compliance Forms at:

<http://www.energy.ca.gov/title24/2005standards/index.html>

Arnold Schwarzenegger
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Executive Director

Buildings and Appliances Office
1516 Ninth Street, MS-25
Sacramento, CA
95814-5512
(916) 654-4064

Beverly Duffy
**Editor
Designer**

Special Thanks to:
Valerie Hall, Bill Pennington,
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Title 24

Energy Efficiency

Standards Training

Links for training on issues relating to California Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24, Part 6) are available on the Energy Commission's website at:

<http://www.energy.ca.gov/title24/training>

For training offered by the utilities and other organizations please see the following websites:

PG&E:

<http://www.pge.com/stockton>

SoCal Gas Co.

<http://seminars.socalgas.com/int/default.asp>

San Diego Gas and Electric

<http://seminars.sdge.com/int/default.asp>

SCE:

<http://www.sce.com/RebatesandSavings/EnergyCenters/workshops.htm>

SMUD:

<http://www.smud.org/education/index.html>

CALBO TRAINING INSTITUTE

<http://www.calbo.org>

NEW!

Videos and information for building department staff on the **change-outs** and **cool roofs** is currently on the CALBO website at:
www.buildingmedia.com/calbo/videos_dept.html

BUILDING INDUSTRY INSTITUTE (BII)

<http://www.consol.ws/bect.asp>

CABEC:

<http://www.cabec.org/cepetrainandtest.php>

Residential Lighting Design Guide

- Best practices and lighting designs to help builders comply with California's 2005 Title 24 energy code
<http://www.cltc.ucdavis.edu/>



Flex Your Power Newswire

<http://www.fypower.org/news/enewswire.html>



Need Help? CALL THE ENERGY HOTLINE @ (800) 772-3300 or (916) 654-5106