

INFORMATION SHEET

NO. M-03

DATE : August 28, 2024

SUBJECT: Mechanical, Electrical, and Plumbing

TITLE : Title-24 California Energy Code and San Francisco Green Building Code

Inspection Checklists for Single-Family Residential Buildings

PURPOSE: The purpose of this Information Sheet is to provide energy efficiency and green

building requirements inspection checklists for single-family residential buildings.

REFERENCE: California Energy Code (CEC), Current Edition

California Green Building Standards Code (CAL Green), Current Edition

San Francisco Green Building Code (SFGBC), Current Edition

Administrative Bulletin 093 (AB-093): Implementation of Green Building Regulations

DBI Information Sheet M-06: Title-24 California Energy Code Certificate of Installation, Verification, and Acceptance Compliance Requirements and San Francisco Green Building Code Compliance Verification Requirements

DISCUSSION:

Prior to permit approval, the applicable CEC and SFGBC inspection requirements shall be specified by the responsible designer by filling out the appropriate inspection checklists. The CEC and SFGBC inspection checklists specifying the required inspections shall be completed and affixed to the drawings for permit application submittal. The appropriate checklists depend on the project type. For single-family residential buildings, the CEC and SFGBC inspection checklists are contained in Attachments 1 through 3 of this information sheet as follows:

IS M-03 Attachment 1: Title-24 California Energy Code & San Francisco Green Building Code Inspection Checklist Single-Family Residential (Building)

IS M-03 Attachment 2: Title-24 California Energy Code Inspection Checklist Single-Family Residential (Electrical)

IS M-03 Attachment 3: Title-24 California Energy Code Inspection Checklist Single-Family Residential (Plumbing)

Refer also to Information Sheet M-06 for energy efficiency and green building inspection checklists for other project types. To obtain CEC installation, verification, and acceptance compliance and SFGBC final compliance verification, refer to the procedures outlined in Information Sheet M-06.

City and County of San Francisco Department of Building Inspection



London N. Breed, Mayor Patrick O'Riordan, C.B.O., Director

Effective Date of the Provisions of this Information Sheet

The provisions of this information sheet became effective for building permit applications submitted on or after January 1, 2023. The provisions of the AB-093 Attachment E form are required for new construction and major alteration permits that have a final certificate of occupancy after January 1, 2019.

08/29/2024

₽atrick O'Riordan, C.B.O.

Date

Director

Department of Building Inspection

This Information Sheet is subject to modification at any time. For the most current version, visit our website at sfdbi.org.

NOTICE

Title-24 California Energy Code & San Francisco Green Building Code Inspection Checklist SINGLE-FAMILY RESIDENTIAL (BUILDING)

Certificates of Installation, Verification, and/or Acceptance are required for this project, as indicated on the checklist issued with this permit. Ensuring the accurate completion of this documentation is the direct responsibility of the Responsible Designer. This documentation is required in addition to site inspections performed by the Department of Building Inspection.

For questions regarding the details or extent of required documentation or testing, and if there are any field problems regarding documentation or testing, please contact your district building inspector or call (628) 652-3400.

Before the final building inspection is scheduled, documentation of California Energy Code (CEC) compliance "Certificate of Installation, Verification, and/or Acceptance" and San Francisco Green Building Code (SFGBC) compliance "Administrative Bulletin AB-093 Attachment E" must be completed and signed by the Responsible Designer. The permit will <u>not</u> be finalized without compliance with the energy inspection requirements.

Energy Inspection Services contact information:

1. Telephone: (628) 652-3407

Email: <u>dbi.energyinspections@sfgov.org</u>
 In person: 49 South Van Ness Ave., 4th floor

Please submit all special inspection submittals, including final letters, to: dbi.energyinspections@sfgov.org

Installation, Acceptance, and Verification certificates can be found on the California Energy Commission website at energy-efficiency-efficiency-efficiency.

Information Sheet M-06 provides submittal instructions for the Title-24 CEC and SFGBC certificates of installation, verification, and acceptance. M-06 may be found on the SFDBI website at sf.qov/resource/2022/information-sheets-dbi.

TITLE-24 California Energy Code & San Francisco Green Building Code Inspection Checklist SINGLE-FAMILY RESIDENTIAL (BUILDING)

A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED DRAWING SET

JOB ADDRESS	APPLICATION NO.	ADDENDUM NO		
RESPONSIBLE DESIGNER NAME	PHONE	: NO		
Installation, Acceptance, Verification, and/or Green Bu Sheet M-06. In accordance with the requirements of t SFDBI Administrative Bulletin AB-093, the following d	he California Energy Code, S	an Francisco Green Building Code and		
1. Installation Addition and Alternation CF2R-ADD-02-E Non HERS – Prescriptive Additions Simple (IB53) CF2R-ALT-05-E Non HERS – Prescriptive Alterations Simple (IB54) Envelope CF2R-ENV-01-E Non HERS – Fenestration Installation (IB1) CF2R-ENV-03-E Non HERS – Insulation Installation (IB3) CF2R-ENV-04-E Non HERS – Roofing-Radiant Barrier (IB4) CF2R-ENV-20-H HERS – Building Envelope Air Leakage Test (IB56) CF2R-ENV-21-H HERS – Quality Insulation Installation (QII) - Framing Stage (IB64) CF2R-ENV-22-H HERS – Quality Insulation Installation (QII) - Insulation Stage (IB65) Solar Ready CF2R-SRA-01-E – Solar Ready Buildings – New Constructions (IB68) CF2R-SRA-02-E – Minimum Solar Zone Area Worksheet – New Constructions (IB69)	□ CF2R-MCH-23-H HERS - Space □ CF2R-MCH-25-H HERS - Refrig □ CF2R-MCH-26-H HERS - Verific Energy Efficiency Ratio (SEER) □ CF2R-MCH-27-H HERS - Indoo □ CF2R-MCH-28-H HERS - Retur Sizing According to Tables 150. □ CF2R-MCH-29-H HERS - Duct Ducts Compliance Credit (IB32) □ CF2R-MCH-30-E HERS - Ventil □ CF2R-MCH-31-H HERS - Whole □ CF2R-MCH-32-H HERS - Local	Whole House Fan (IB13) Leakage (IB58) Location (IB18) e Conditioning System Fan Efficacy (IB59) e Conditioning System Airflow Rate (IB60) gerant Charge Verification (IB62) ed Energy Efficiency Ratio (EER) or Seasonal (IB27) or Air Quality (IAQ)(IB63) on Duct Design and Air Filter Grille Device 0-B or C (IB31) Surface Area Reduction; R-Value; Buried (IB10) ation Cooling Compliance Credit (IB55) e House Fan (IB66)		
2. Verification Existing Conditions □ CF3R-EXC-20-H HERS – HERS Verification of Existing Conditions for Residential Alterations (VB47) Envelope □ CF3R-ENV-20-H HERS – Building Envelope Air Leakage Test (VB48) □ CF3R-ENV-21-H HERS – Quality Insulation Installation (QII) - Framing Stage (VB56) □ CF3R-ENV-22-H HERS – Quality Insulation Installation (QII) - Insulation Stage (VB57)	Mechanical □ CF3R-MCH-20-H HERS - Duct □ CF3R-MCH-21-H HERS - Duct □ CF3R-MCH-22-H HERS - Space □ CF3R-MCH-23-H HERS - Refrig □ CF3R-MCH-25-H HERS - Verifie □ CF3R-MCH-26-H HERS - IAQ (10 □ CF3R-MCH-27-H HERS - Retur Sizing According to Tables 150. □ CF3R-MCH-29-H HERS - Duct □ Ducts Compliance Credit (VB27 □ CF3R-MCH-30-H HERS - Ventil □ CF3R-MCH-31-H HERS - Whole □ CF3R-MCH-32-H HERS - Local	Location (VB12) e Conditioning System Fan Efficacy (VB50) e Conditioning System Airflow Rate (VB51) gerant Charge Verification (VB53) ed EER or SEER (VB21) VB54) n Duct Design and Air Filter Grille Device 0-B or C (VB25) Surface Area Reduction; R-Value; Buried () ation Cooling Compliance Credit (VB60) e House Fan (VB58)		
3. Green Building (For New Construction and Major Alterations) ☐ Green Building AB-093 Attachment E (GBC1)	4. All-Electric (For New Constru ☐ All-Electric Compliance AB-11	,		
Required information:	1 2 7 iii 2100tilo Oompilanee AB-11	Ermanmont E (PEOT)		
Prepared by: Responsible Designer Signature	Email:	Date:		
Review by:	Phone:			
DBI Engineer or Plan Reviewer APPROVAL (Based on submitted reports)				
,				
DATE DBI Buil	ding Inspector or Energy Inspect	tion Services Staff		

NOTICE

TITLE-24 California Energy Code Inspection Checklist SINGLE-FAMILY RESIDENTIAL (ELECTRICAL)

Certificates of Installation, Verification, and/or Acceptance are required for this project, as indicated on the checklist issued with this permit. Ensuring the accurate completion of this documentation is the direct responsibility of the Responsible Designer. This documentation is required in addition to site inspections performed by the Department of Building Inspection.

For questions regarding the details or extent of required documentation or testing, and if there are any field problems regarding documentation or testing, please contact your district building inspector or call (628) 652-3400.

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Installation, Acceptance, and Verification certificates can be found on the California Energy Commission website at: <a href="mailto:energy-ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-efficiency-standards/2022-building-energy-effici

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JOB ADDRESS	APPLICATION NO.	ADDENDUM NO.
RESPONSIBLE DESIGNER NAME	PHC	DNE NO.
	ication compliance documentation shall ments of the California Energy Code, the ject:	
1. Installation		
Electrical ☐ CF2R-LTG-01-E Lighting – Single ☐ CF2R-ELC-01-E Electric Ready (I	, ,	
Solar ☐ CF2R-PVB-01-E Photovoltaic Sys ☐ CF2R-PVB-02-E Battery Storage	• •	
Required information:		
Prepared by: Responsible Designation	gner Signature Email:	Date:
Review by: DBI Engineer or Plan	Ph n Reviewer	one:
APPROVAL (Based on submitted		
DATE	DBI Building Inspector or En	ergy Inspection Services Staff

NOTICE

TITLE-24 California Energy Code Inspection Checklist SINGLE-FAMILY RESIDENTIAL (PLUMBING)

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JOB ADDRESS	APPLICATION NO	ADDENDUM NO
RESPONSIBLE DESIGNER NAME	PHONE N	IO
	ation compliance documentation shall tents of the California Energy Code, the	
1. Installation		
☐ CF2R-PLB-03-E DHW Non-HERS	- Single Dwelling Unit Hot Water Syster - Pool and Spa Heating System (IP7) RS Single Dwelling Unit Hot Water Syst	, ,
Solar □ CF2R-STH-01-E Solar Water Heati	ing System (IP1)	
Mechanical □ CF2R-MCH-04-E Non HERS – Eva	aporative Coolers (IP2)	
2. Verification ☐ CF3R-PLB-22-H DHW HERS - HEI	RS Single Dwelling Unit Hot Water Syst	em Distribution (VP3)
Required information:		
Prepared by: Responsible Design	Email: ner Signature	Date:
Review by: DBI Engineer or Plan F	Reviewer Pho	one:
APPROVAL (Based on submitted re		
DATE	DBI Building Inspector or Energy Inspection Services Staff	