

# Simplified CF1R-ALT-02-E (Residential) for City of El Cajon Permit (Climate Zone 10)

Site Address: \_\_\_\_\_ Permit #: \_\_\_\_\_ Date: \_\_\_\_\_

**A registered copy of CF1R-ALT-02-E and all required signed CF2R, CF3R forms shall be left on site for final inspection and a copy given to the home owner.**

2019 California Energy Code minimum requirements.

1. Minimum **Seasonal Energy Efficiency Ratio (SEER)** for AC systems Split or Single is **14**.
2. Minimum **Annual Fuel Utilization Efficiency (AFUE)** for fuel burning appliances is **81%**.
3. Minimum **Heating Seasonal Performance Factor (HSPF)** for heat pumps is **7.7**.
4. Minimum **Duct Insulation R6** and where 40 ft. or more of duct is added or replaced.
5. All thermostats shall be replaced with EMCS or **Setback (programmable) thermostats**.

<input type="checkbox"/> <b>Entirely New or Complete Replacement System</b> (Including mini-splits)	<b>Forms:</b>	CF1R-ALT-02-E (by installer) CF2R MCH-01-E, MCH-20-H, MCH-22, MCH-23, MCH-25-H (by HERS rater) CF3R MCH-20-H, MCH-22, MCH-23 and MCH-25-H
	<b>HERS required</b>	(Duct Seal Test, Refrigerant Charge, Fan Efficacy, Airflow) 150.2(b)1C, 150.2(b)1Fiib <b>MERV 13 Labeled Filters</b>
<input type="checkbox"/> <b>Entirely New or Complete Replacement Duct System</b> With or without equipment changeout	<b>Forms:</b>	CF1R-ALT-02-E (by installer) CF2R MCH-01-E, MCH-20-H, MCH-22, MCH-23, MCH-25-H (by HERS rater) CF3R MCH-20-H and MCH-22, MCH-23, MCH-25-H
	<b>HERS required</b>	Leakage <5% R6 insulation
<input type="checkbox"/> <b>Altered Conditioning System</b> (including installation or replacement of condenser, coil, compressor, pump, etc...) <b>Duct Seal Test Req.</b>	<b>Forms:</b>	CF1R-ALT-02-E (by installer), CF2R MCH-01-E, MCH-20-H, MCH-23, MCH-25-H (by HERS rater) CF3R MCH-20-H and MECH-23, MCH-25-H
	<b>HERS required</b>	Exception to seal test: Systems with less than 40 ft, systems with asbestos. Leakage <15%
<input type="checkbox"/> <b>Altered Duct Systems.</b> Adding 40 ft or more of New or Replacement Duct	<b>Forms:</b>	CF1R-ALT-02-E (by installer) CF2R MCH-01-E, MCH-20-H (by HERS rater) CF3R MCH-20-H
	<b>HERS required</b>	Duct Seal Test Exceptions for duct leakage testing: <input type="checkbox"/> Existing duct system with asbestos. Duct leakage for combined new and existing allowed 15%. All new duct 5%. 105.2(b)1Db

**Contractor (Documentation Author's/Responsible Designer's) Declaration Statement.**

- I certify that this certificate of Compliance Documentation is accurate and complete.
- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the design identified on the certificate of compliance.
- I certify that the energy features and performance specifications for the design identified on the certificate of compliance conform to the requirements of Title 24, Parts 1 and 6 of the California Code of Regulations.
- The design features on this certificate of compliance are consistent with the information documented on other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agenda for approval with the permit application.

<b>Name:</b>	<b>Signature:</b>
<b>Company:</b>	<b>Date:</b>
<b>Address:</b>	<b>License:</b>

City/State/Zip

Phone:

## ***Residential Change-Outs***

Building has more than 40 feet of ducts in unconditioned space?

**NO**

**YES**

Asbestos Free (System is not sealed, insulated or constructed with Asbestos)

**NO**

**YES**

Work Includes any of the following?

**NO**

Replacing ANY of the following:

Complete Split or Packaged System

Cooling Coil, condenser coil, or outdoor condensing unit

Furnace air handler

Adding or replacing 40' or more of ducts

**YES**

***Duct Testing and Sealing is NOT REQUIRED***

***Duct Testing and Sealing is REQUIRED***