INSTALLATION CERTIFICATE **CF-6R-MECH-21-HERS**

Site Address:	Enforcement Agency:	Permit Number:
1234 Anywhere Street	City of Ripon	2011-Test

Enter the Duct System Name or Identification/Tag: 1 XML - C145

Enter the Duct System Location or Area Served: whole house XML - C146

Note: Submit one Installation Certificate for each duct system that must demonstrate compliance in the dwelling.

This installation certificate is required for compliance for alterations and additions in existing dwellings to space conditioning systems and duct systems.

Note: For existing dwellings, a completely new o also include existing m (e.g., register boots, air handler, coil, plenums, etc.) if those parts are acc . For a completely n installed in an existing dwelling, use the Installation Certificate titled "Du New or Replaceme

What option was Chosen?
Cooling
Heating
Measured

What option was chosen?
1
2
3
4

Duct Leakage Diagnostic Test – Existing D

XML - C171 ☑ Outside air (OA) ducts for Central Fan Integrated (CFI) ventilation systems, shall not be sealed esting. CFI OA ducts that utilize controlled motorized dampers, that open only when OA ventilation is required to meet ASHRAE Standard 62.2, and close when OA ventilation is not required, may be configured to the closed position during duct leakage testing.

XML - C172 ☑ All supply and return register boots must be sealed to the drywall if smoke test is utilized for compliance – applies to duct leakage compliance option 3 (leakage reduction by 60%) and option 4 (fix all accessible leaks) described above

XML - C173 ☑ New duct installations cannot utilize building cavities as plenums or platform returns in lieu of ducts.

XML - C174 ☑ Mastic and draw bands must be used in combination with cloth backed rubber adhesive duct tape to seal leaks at all new duct connections.

XML - C147 Select one compliance method from the following four choices.

◉ Option 1. Measured leakage less than 15% of Fan Airflow.	○ Option 2. Measured leakage to outside less than 10% of Fan Airflow.	○ Option 3. Reduce leakage by 60% or more, and conduct smoke test to seal all accessible leaks.	○ Option 4. Fix all accessible leaks using smoke test, and HERS rater must verify.

Note: (Option 1 must be attempted before utilizing Option 4)

Determine nominal Fan Airflow using one of the following three calculation methods.

XML - C148

◉ 1
○ 2
○ 3

Cooling system method: Size of condenser in Tons 3 XML - C149 x 400 = 1200 XML - C150 CFM

Heating system method: 21.7 x XML - C151 Heating Output Capacity (kBtuh) = XML - C152 CFM

Measured system airflow using RA3.3 airflow test procedures: XML - C153 CFM

XML - C157

1

Option 1 used then:

Allowed leakage = Fan Airflow 1200 XML - C154 x 0.15 = 180 XML - C155 CFM

Actual leakage = XML - C156 CFM

Pass if Actual leakage is less than Allowed leakage

○ Pass ○ Fail

DECLARATION STATEMENT

- I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for construction, or an authorized representative of the person responsible for construction (responsible person).