INSTALLATION CERTIFICATE **CF-6R-MECH-20-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 - C119

Enter the Duct System Location or Area Served: whole house XML - C120

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

This certificate is required for compliance for completely new duct systems installed in new dwelling construction, and also for completely new or replacement duct systems in existing dwellings. For existing dwellings, a completely new or replacement duct system can also include existing parts of the original duct system (e.g., register boots, air handler, coil, plenums, etc.) if those parts are accessible and they can be sealed.

which method was used?
Cooling
Heating
Measured

Duct Leakage Diagnostic Test – completely new or replacement duct system

	Allowed Leakage (CFM)
a value for the Allowed Leakage (CFM) for the duct system leakage verification. The value entered must be the Verified Low Leakage Ducts in itioned Space criteria or one of the three calculated leakage rates described below.	
ied Low Leakage Ducts in Conditioned Space (VLLDCS) Compliance Credit. If compliance credit rified low leakage ducts in conditioned space is shown in the special features section of the CF-1R, the leakage to le test method must be used to verify duct leakage (refer to RA3.1.4.3.4), and 25 CFM must be entered for Allowed Leakage.	
Allowed leakage calculation – (select one calculation method from this section). Use 6% (*leakage factor* = 0.06) for calculations if tested at "final" or 4% (*leakage factor* = 0.04) if tested at "rough." When utilizing Low Leakage Air Handler (LLAH) credit, the allowed duct leakage may be specified by the CF-1R to be less than 6%, in which case the user-specified leakage rate must be used in the calculations below. For example, if the user-specified leakage (specified as a percentage of fan airflow) is reported on the CF-1R as 3%, then use a *leakage factor* of 0.03 in the calculations below.	
◉ Cooling system method: Nominal capacity of condenser in Tons 3 XML - C122 x 400 x *leakage factor* = 72 XML - C123 (CFM)	72
○ Heating system method: 21.7 x XML - C124 Output Capacity in Thousands of Btu/hr x *leakage factor* = XML - C125 (CFM)	
○ Measured airflow method (RA3.3): Enter measured fan flow in CFM here XML - C126 x *leakage factor* = XML - C127 (CFM)	
Enter value for Actual leakage (CFM) in the right column, from measurement using applicable duct leakage pressurization test procedure from Reference Residential Appendix RA3.1(CFM @ 25 Pa).	Actual Leakage (CFM)
List **Actual** Leakage from duct leakage test (CFM)	XML - C128
Pass if Actual Leakage is less than Allowed Leakage XML - C129	○ Pass ○ Fail

XML - C121