

|   |                            |                           |
|---|----------------------------|---------------------------|
| <b>INSTALLATION CERTIFICATE</b>   |                            | <b>CF-6R-MECH-29-HERS</b> |
| <b>Supply Duct Compliance Credits - Location; Surface Area; R-value</b> |                            | <b>(Page 1 of 2)</b>      |
| <b>Site Address:</b>  | <b>Enforcement Agency:</b> | <b>Permit Number:</b>     |

|  |
|--|
| Enter the Duct System Name or Identification/Tag:  |
| Enter the Duct System Location or Area Served:   |
| Note: Submit one Installation Certificate for each duct system that must demonstrate compliance in the dwelling. |

**SUPPLY DUCT LOCATION COMPLIANCE CREDITS**

*Credit is available for supply duct systems entirely in conditioned space or with reduced surface area in unconditioned spaces.*

**LESS THAN 12 LINEAR FEET OF SUPPLY DUCT OUTSIDE OF CONDITIONED SPACE COMPLIANCE CREDIT.** *A detailed duct design is not required for compliance with this measure. HERS verification is required for compliance with this measure.*

|  |                             |   |
|--|-----------------------------|---|
| <input type="checkbox"/> Yes                   | <input type="checkbox"/> No | Less than 12 linear feet of supply duct outside of conditioned space.   |
| <b>Yes to this compliance credit is a pass</b> |                             | <input checked="" type="checkbox"/> <input type="checkbox"/> Pass <input checked="" type="checkbox"/> <input type="checkbox"/> Fail |

**SUPPLY DUCTS LOCATED IN CONDITIONED SPACE COMPLIANCE CREDIT.** *A detailed duct design is not required for compliance with this measure. HERS verification is required for compliance with this measure.*

|  |                             |   |
|--|-----------------------------|---|
| <input type="checkbox"/> Yes                   | <input type="checkbox"/> No | Ducts are located within the conditioned volume of building.  |
| <b>Yes to this compliance credit is a pass</b> |                             | <input checked="" type="checkbox"/> <input type="checkbox"/> Pass <input checked="" type="checkbox"/> <input type="checkbox"/> Fail |

**SUPPLY DUCT SURFACE AREA REDUCTION AND R-VALUE COMPLIANCE CREDITS**

*Credit is available for supply duct systems with reduced surface area in unconditioned space with varying combinations of higher performance insulation. In order to claim these credits a detailed duct system design is required to be documented on the plans approved by the enforcement agency, and the installation must be certified to be consistent with the approved plans by the installer, and the installation must be verified by a HERS rater. The size, R-value, and location of each duct segment in an unconditioned space including details describing if ducts are buried in attic insulation must be shown in the design drawings approved by the enforcement agency, entered into the compliance software, and shown on the CF-1R for the building. Procedures for field verification and diagnostic testing for this group of compliance credits are described in Reference Residential Appendix RA3.1*

**SUPPLY DUCT SURFACE AREA REDUCTION COMPLIANCE CREDIT**

|                              |                             |  |
|------------------------------|-----------------------------|--|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Prescriptive Cooling Coil Airflow compliance has been verified.  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | The building's duct system design was approved by the enforcement agency, and the duct system design is detailed in the special features section of the CF-1R approved by the enforcement agency.  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | The installed duct system does not have severely twisted or compressed sections that would restrict required operating airflow.  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | The installed duct system layout, including duct sizes and locations of supply & return registers match the duct system design plans approved by the enforcement agency, and the installed duct system meets the requirements for Verified Duct Design specified in Reference Residential Appendix RA3.1.4.1.1.1 |
| <b>Yes to all is a pass</b>  |                             | <input checked="" type="checkbox"/> <input type="checkbox"/> Pass <input checked="" type="checkbox"/> <input type="checkbox"/> Fail  |

|   |                            |                           |
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| <b>Supply Duct Compliance Credits - Location; Surface Area; R-value</b> |                            | <b>(Page 2 of 2)</b>      |
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**BURIED DUCTS ON THE CEILING R-VALUE COMPLIANCE CREDIT**

*In order to claim credit for buried ducts on the ceiling, the conditions for the Supply Duct Surface Area Reduction (above) must be met, the approved duct design must identify which portions of the duct system are "Buried", and the installed duct system must conform to the approved duct design. Also, the duct system must meet prescriptive Duct Leakage test requirements and the building must meet Quality Insulation Installation requirements.*

|                              |                             |  |
|------------------------------|-----------------------------|--|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | The duct design passes the Supply Duct Surface Area Reduction compliance credit, buried ducts are shown on the approved duct design and on the approved CF-1R, and the installed duct system is consistent with the approved duct design drawings. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Meets Verified Duct Leakage requirements   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Meets Verified Quality Insulation Installation requirements  |
| <b>Yes to all is a pass</b>  |                             | <input checked="" type="checkbox"/> <b>Pass</b> <input checked="" type="checkbox"/> <b>Fail</b>  |

**DEEPLY BURIED DUCTS R-VALUE COMPLIANCE CREDIT**

*In order to claim credit for buried ducts on the ceiling, the conditions for the Supply Duct Surface Area Reduction (above) must be met, the approved duct design must identify which portions of the duct system are "Deeply Buried", and the installed duct system must conform to the approved duct design. Also, the duct system must meet prescriptive Duct Leakage test requirements and the building must meet Quality Insulation Installation requirements.*

|                              |                             |  |
|------------------------------|-----------------------------|--|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | The duct design passes the Supply Duct Surface Area Reduction compliance credit, buried ducts are shown on the approved duct design and on the approved CF-1R, and the installed duct system is consistent with the approved duct design drawings. |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Meets Verified Duct Leakage requirements   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Meets Verified Quality Insulation Installation requirements  |
| <b>Yes to all is a pass</b>  |                             | <input checked="" type="checkbox"/> <b>Pass</b> <input checked="" type="checkbox"/> <b>Fail</b>  |

**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).
- I certify that the installed features, materials, components, or manufactured devices identified on this certificate (the installation) conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency.
- I understand that a HERS rater will check the installation to verify compliance, and that that if such checking identifies defects, I am required to take corrective action at my expense. I understand that Energy Commission and HERS provider representatives will also perform quality assurance checking of installations, including those approved as part of a sample group but not checked by a HERS rater, and if those installations fail to meet the requirements of such quality assurance checking, the required corrective action and additional checking/testing of other installations in that HERS sample group will be performed at my expense.
- I reviewed a copy of the Certificate of Compliance (CF-1R) form approved by the enforcement agency that identifies the specific requirements for the installation. I certify that the requirements detailed on the CF-1R that apply to the installation have been met.
- **I will ensure that a completed, signed copy of this Installation Certificate shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Installation Certificate is required to be included with the documentation the builder provides to the building owner at occupancy.** I will ensure that all Installation Certificates will come from a HERS provider data registry for multiple orientation alternatives, and beginning October 1, 2010, for all low-rise residential buildings.

|   |                                 |                                |
|---|---------------------------------|--------------------------------|
| Company Name: (Installing Subcontractor or General Contractor or Builder/Owner) |                                 |                                |
| Responsible Person's Name:  | Responsible Person's Signature: |                                |
| CSLB License:   | Date Signed:                    | Position With Company (Title): |