



CERTIFICATE OF FIELD VERIFICATION AND DIAGNOSTIC TESTING		CF-4R-MECH-29
Supply Duct Compliance Credits - Location; Surface Area; R-value		(Page 1 of 3)
Site Address:	Enforcement Agency:	Permit Number:

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.
Yes to this compliance credit is a pass		<input checked="" type="checkbox"/> Pass <input checked="" 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.
Yes to this compliance credit is a pass		<input checked="" type="checkbox"/> Pass <input checked="" 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
Yes to all is a pass		<input checked="" type="checkbox"/> Pass <input checked="" type="checkbox"/> Fail

SUPPLY DUCT COMPLIANCE CREDITS – LOCATION; SURFACE AREA; R-VALUE

CEC-CF-4R-MECH-29 (Revised 08/09)

CALIFORNIA ENERGY COMMISSION



CERTIFICATE OF FIELD VERIFICATION AND DIAGNOSTIC TESTING		CF-4R-MECH-29
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Site Address:	Enforcement Agency:	Permit Number:

 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
Yes to all is a pass		<input checked="" type="checkbox"/> Pass <input checked="" type="checkbox"/> Fail

 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
Yes to all is a pass		<input checked="" type="checkbox"/> Pass <input checked="" type="checkbox"/> 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 the certified HERS rater who performed the verification services identified and reported on this certificate (responsible rater).
- The installed feature, material, component, or manufactured device requiring HERS verification that is identified on this certificate (the installation) complies with the applicable requirements in Reference Residential Appendices RA2 and RA3 and the requirements specified on the Certificate(s) of Compliance (CF-1R) approved by the local enforcement agency.
- The information reported on applicable sections of the Installation Certificate(s) (CF-6R), signed and submitted by the person(s) responsible for the installation conforms to the requirements specified on the Certificate(s) of Compliance (CF-1R) approved by the enforcement agency.

Builder or Installer information as shown on the Installation Certificate (CF-6R)		
Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)		
Responsible Person's Name:	CSLB License:	
HERS Provider Data Registry Information		
Sample Group # (if applicable):	<input type="checkbox"/> tested/verified dwelling	<input type="checkbox"/> not-tested/verified dwelling in a HERS sample group
HERS Rater Information		
HERS Rater Company Name:		
Responsible Rater's Name	Responsible Rater's Signature	

SUPPLY DUCT COMPLIANCE CREDITS – LOCATION; SURFACE AREA; R-VALUE



CERTIFICATE OF FIELD VERIFICATION AND DIAGNOSTIC TESTING **CF-4R-MECH-29**

Supply Duct Compliance Credits - Location; Surface Area; R-value **(Page 3 of 3)**

Site Address:	Enforcement Agency:	Permit Number:
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Responsible Rater's Certification Number w/ this HERS Provider:	Date Signed:
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SAMPLE FORM
FOR INFORMATION ONLY
NOT FOR SUBMITTAL