

Prescriptive Certificate of Compliance: Residential		CF-1R
Newly Constructed Buildings and Additions Greater Than 1,000 ft²		(Page 2 of 5)
Project Name:	Climate Zone #	# of Stories

Mass and Furring Strips Construction (footnotes)

1. Indicate the type of assembly to include; Hollow Unit Masonry Walls, Solid Unit Masonry, Solid Concrete Walls, Etc. Additional assemblies can be found Reference Joint Appendix JA4.
2. This is the U-Factor based on the thickness of the assembly in inches.
3. The R-value of the insulation to be added on the interior or exterior of the assembly.
4. The Calculated R-Value is the R-value of the furred out section of the assembly.
- 5.-6. The Final Assembly is calculated using Equation 4-2 or Equation 4-4 of the Reference Joint Appendix JA4. The equation is the inverse of Column D added to Column I. Column K is the inverse from column J.
7. Insert the calculated U-factor value on to the Opaque Surface Details in Column J

FENESTRATION: PROPOSED AREAS					
Fenestration Type (Window, Glass Door or Skylight)	Orientation (North, East, South, West)	Proposed Area ¹ (ft ²)	Maximum Allowed U-factor ^{2,3}	Maximum Allowed SHGC ^{2,3,4}	NFRC or Default Values ⁵
<i>Total</i>					

1. Fenestration area is the area of total glazed product (i.e. glass plus frame). Exception: When a door is less than 50% glass, the fenestration area may be the glass area plus a 2" "frame" around the glass.
2. Enter value from Component Package Requirements from either Table 151-B, 151-C, or 151-D.
3. Actual fenestration efficiencies installed shall be indicated on the installation form, CF-6R-ENV. The efficiencies should be equivalent to or less than that listed on the CF-1R Form Page 1. Otherwise, revise the CF-1R and resubmit for plan check review.
4. Submit a completed WS-3R Form if a reduced SHGC is calculated with exterior shading.
5. If applicable at this stage enter "NFRC" Certified windows or are CEC "Default" values found in Table 116-A or B.

FENESTRATION PROPOSED AREA CALCULATION				
	CFA ft ²	Allowed % of CFA	Allowed Area (CFA x Allowed %)	Total Proposed Area (From Table Above)
Total Fenestration Area ¹				
West Fenestration Area ² (Required only in Climate Zones 2, 4 & 7 -15)		.05		
Total Area ³			≥	

1. For Component Package C, see Table 151-B for Climate Zone Maximum Total Area Allowance. Enter 20% for all other Component Packages.
2. The Proposed West Fenestration Area includes west-sloping skylights and any skylights with a pitch less than 1:12.
3. To meet energy compliance the Total Proposed Area must be less than or equal to the Allowed Area.

Prescriptive Certificate of Compliance: Residential		CF-1R
Newly Constructed Buildings and Additions Greater Than 1,000 ft²		(Page 3 of 5)
Project Name:	Climate Zone #	# of Stories

ROOFING PRODUCTS (COOL ROOFS) §151(f)12

Check applicable box below if the newly installed roof is exempted from the roofing product "Cool Roof" requirements. Note: If any one of the boxes are checked below, the Aged Solar Reflectance and Thermal Emittance requirements for roofing products in §118(i) are not applicable. Do not fill table below.

- Roofing compliance Not Required in Climate Zones 1-12, 14, and 16 with a Low Slope. Less or 2:12 pitch.
- Roofing compliance Not Required in Climate Zones 1 through 9 and 16 with a Low-Sloped. 2:12 pitch or less.
- Roofing area covered by building integrated; photovoltaic panels and solar thermal panels are exempt from the above Cool Roof criteria
- Roof constructions that have thermal mass over the roof membrane with at least 25 lb/ft² is exempt from the above Cool Roof criteria.

Note: If no CRRC-1 label is available, this compliance method cannot be used, use the Performance Approach to show compliance, otherwise, Check the applicable box below if Exempt from the Roofing Products "Cool Roof" Requirement:

CRRC Product ID Number ¹	Roof Slope		Product Weight		Product Type ²	Aged Solar Reflectance ^{3,4}	Thermal Emittance	SRI ⁵
	≤ 2:12	> 2:12	< 5lb/ft ²	≥ 5lb/ft ²				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		

1. The CRRC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at www.coolroofs.org/products/search.php
2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
3. If the Aged Reflectance is not available in the Cool Roof Rating Council's Rated Product Directory then use the Initial Reflectance value from the same directory and use the equation $(0.2+0.7(p_{initial} - 0.2))$ to obtain a calculated aged value. Where p is the Initial Solar Reflectance.
4. Check box if the Aged Reflectance is a calculated value using the equation above.
5. The SRI value needs to be calculated from a spreadsheet at <http://www.energy.ca.gov/title24/>

To apply **Liquid Field Applied Coatings**, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §118(i)4. Select the applicable coating:

<input type="checkbox"/> Aluminum-Pigmented Asphalt Roof Coating	<input type="checkbox"/> Cement-Based Roof Coating	<input type="checkbox"/> Other _____
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HVAC SYSTEMS - HEATING

Heating Equipment Type and Capacity ^{1, 2, 3}	Minimum Efficiency (AFUE or HSPF)	Distribution Type and Location (Ducts, Hydronic in Floor, Radiators, etc.)	Duct or Piping Insulation R-Value ⁴	Thermostat Type	Configuration (Central, Space, Package or Hydronic)

1. Indicate (Central Furnace, Wall Furnace, Heat pump, Boiler, Electric Resistance, Hydronic, etc.)
2. Electric resistance heating is allowed only in Component Package C, or except where electric heating is supplemental (i.e., if total capacity ≤ 2 KW or 7,000 Btu/hr electric heating is controlled by a time-limiting device not exceeding 30 minutes). See §151(b)3 exception.
3. Refer to the HERS Verification section on Pages 3 and 4 of the CF-1R Form for additional requirements and check applicable boxes.
4. Pipe insulation for steam hydronic heating systems or hot water systems >15 psig use Table 123-A, otherwise use Table 150-B.

Prescriptive Certificate of Compliance: Residential		CF-1R
<i>Newly Constructed Buildings and Additions Greater Than 1,000 ft²</i>		(Page 4 of 5)
Project Name:	Climate Zone #	# of Stories

HVAC SYSTEMS - COOLING					
Cooling Equipment Type and Capacity ^{1,2}	Minimum Efficiency (SEER/EER or COP)	Distribution Type and Location (Central Ducts, Hydronic in Floor, Radiators, etc.)	Duct or Piping Insulation R-Value	Thermostat Type	Configuration (Split or Package)

1. Indicate Type (A/C, Heat pump, Evaporative Cooling, etc)
 2. Refer to the HERS Verification section on Pages 3 and 4 of the CF-1R Form for additional requirements and check applicable boxes.

WATER HEATING					
<i>List water heaters and boilers for both domestic hot water (DHW) heaters and hydronic space heating. Individual dwelling DHW heaters must be gas or propane fired and may not use recirculation pumps. Hot water pipe insulation from the DHW heater to the kitchen(s) and on all underground hot water pipes is required in all component packages in all climate zones.</i>					
Water Heater Type/Fuel Type ^{1,2}	Distribution Type (Standard, Recirculating) ¹	Number In System	Tank Capacity (Gallons)	Energy Factor or Thermal Efficiency	External Tank Insulation R-Value ³

1. Indicate Type (Storage Gas, Heat Pump, Instantaneous, etc)
 2. Recirculating systems serving multiple dwelling units shall meet the recirculation requirements of §150(n). The Prescriptive requirements do not allow the installation of a recirculating water heating system for single dwelling units.
 3. The water heating tank and pipes shall be insulated to meet the requirements of §150(j). 2.

SPECIAL FEATURES <i>The enforcement agency should pay special attention to the Special Features specified in this checklist below. These items may require written justification and documentation and special verification.</i>
Radiant Barrier (Roof) <input type="checkbox"/> YES <input type="checkbox"/> NO YES: Required in Climate Zones 2, 4, and 8-15 in Component Packages C, D and E.
Slab Edge (Perimeter) Insulation <input type="checkbox"/> YES <input type="checkbox"/> NO YES: In all Climate Zones using Component Package C, and in Climate Zone 16 under Component Packages D and E, R-7 insulation is required.
Heated Slab Insulation <input type="checkbox"/> YES <input type="checkbox"/> NO YES: Slab edge insulation required for heated slabs in all Component Packages in all Climate Zones. See details in Table 118-A of the standards.
Raised Slab Insulation <input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zones 1, 2, 11, 13, 14 & 16 R-8 insulation is required, and in Climate Zones 12 & 15 R-4 insulation is required under Component Packages D and E. Raised slab insulation is not required in Component Package C.
Thermal Mass <input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Component Package C for all Climate Zones, a Minimum Interior Mass Capacity (IMC) must be achieved per Table 151-A of the standards. If Yes, submit a completed WS-1R Form.

HERS VERIFICATION SUMMARY <i>The enforcement agency should pay special attention to the HERS Measures specified in this checklist below. A completed and signed CF-4R Form for all the measures specified shall be submitted to the building inspector before final inspection.</i>
Duct Sealing & Testing <input type="checkbox"/> YES <input type="checkbox"/> NO YES: New ducted systems are to be sealed and duct leakage shall be less than 6% per §151(f)10 in all Component Packages in all Climate Zones. HERS verification is required for this measure.
Refrigerant Charge - Split System <input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zones 2 and 8-15 in all Component Packages, when a newly ducted split A/C or heat pump is installed, a refrigerant charge measurement shall be verified per §151(f)7A. HERS verification is required for this measure.

Prescriptive Certificate of Compliance: Residential		CF-1R
<i>Newly Constructed Buildings and Additions Greater Than 1,000 ft²</i>		(Page 5 of 5)
Project Name:	Climate Zone #	# of Stories

<p>Central Forced Air Handlers: Integrated Ventilation System Watt Draw <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>YES: In all Component Packages and in all Climate Zones, when a central fan integrated ventilation system is installed to meet the ventilation requirements of §150(o), the central forced air system fans must draw less than 0.58 watts per CFM per §151(f)11. HERS verification is required for this measure.</p> <p>Ducted Split Central Air Conditioners and Heat Pumps: Airflow and Watt Draw <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>YES: In all Component Packages in Climate Zones 10 through 15, when a newly ducted split A/C or heat pump system is installed, the airflow and fan watt draw shall be verified per §151(f)7B. HERS verification is required for this measure.</p>

Documentation Author's Declaration Statement	
<ul style="list-style-type: none"> • I certify that this Certificate of Compliance documentation is accurate and complete. 	
Name:	Signature:
Company:	Date:
Address:	If Applicable <input type="checkbox"/> CEA or <input type="checkbox"/> CEPE (Certification #):
City/State/Zip:	Phone:

Responsible Building Designer's Declaration Statement	
<ul style="list-style-type: none"> • I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. • I certify that the energy features and performance specifications for the building design identified on this Certificate of Compliance conform to the requirements of Title 24, Parts 1 and 6 of the California Code of Regulations. • The building design features identified on this Certificate of Compliance are consistent with the information provided to document this building design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 	
Name:	Signature:
Company:	Date:
Address:	License:
City/State/Zip:	Phone:

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300.

Prescriptive Certificate of Compliance:		CF-1R ADD
Residential Additions		(Page 1 of 5)
Site Address:	Enforcement Agency:	Date:

General Information		
Project Name	Climate Zone #	# of Stories
Building Type <input type="checkbox"/> Single Family <input type="checkbox"/> Multi Family	Circle the Front Orientation: N, E, S, W or Degrees _____	
Conditioned Floor Area of Addition (CFA):	New Addition Size: <input type="checkbox"/> Less than or equal to 100 ft ² <input type="checkbox"/> Less than or equal to 1000 ft ² <i>(Do not use this form for additions greater than 1000 ft²)</i>	
NOTE: For Alterations to an existing home, submit a completed CF-1R-ALT Form. Exception: Existing HVAC systems that are replaced or altered to serve the addition may be included on the CF-1R -ADD Form.		

Prescriptive Envelope Requirements for Additions										
Option 1: Use Option 1 for <u>standard wood and assemblies meeting the Cavity R-value only</u> . For all other use Option 2. • For 100 ft ² additions; the Proposed values must be equal or greater than the Standard column or when indicated when using Package D, "Pkg D". Enter all values in the Proposed Columns. • For less than 1,000 ft ² additions must comply with "Pkg D" requirements unless indicated in the Standard Column. To meet "Pkg D" minimum energy compliance requirements, see RCM Appendix B, Table 151-C. Or §151(b) in the RCM. Enter all values in the Proposed Columns.										
Size of Addition	100 ft ² or less				Less than 1,000 ft ²					
Component	Standard		Proposed		Comment	Standard		Proposed		Comment
Ceiling Insulation	R-19				Minimum	Pkg D				Table 151-C
Wall Insulation	R-13				Minimum	R-13				Minimum
Floor Insulation	R-13				Minimum	Pkg D				Table 151-C
Fenestration	U-factor	SHGC	U-factor	SHGC	Enter Proposed values then Skip Over To Roofing Products Below	U-factor	SHGC	U-factor	SHGC	Fill out Fenestration Proposed Areas Below
	0.40	Pkg D				0.40	Pkg D			
Maximum Glazing Area	50 ft ²				ft ²	Package D (20% of CFA) + Glass Removed				ft ²
Radiant Barrier	N/A					Pkg D				Table 151-C
Roofing	Pkg D		See Roofing Products Below			Pkg D				See Roofing Products Below

Option 2: Use this option for all other assemblies such as, wood, metal, or mass assemblies. For furred mass walls an additional calculation is required using the *Mass and Furring Strips Construction* table below. Use Page JA4-1 in the Reference Joint Appendices for a listing of different assemblies.

Insulation Values For Opaque Surfaces <i>(for Furring use the Mass and Furring Strips Construction table below)</i>										
A	B	C	D	E	F	G	H	I	J	
Standard Assembly <small>See Note and 1-3</small>				Proposed Values From JA4 Table⁴⁻⁸						
Frame, Assembly, Size, Type ¹	Spacing, Thickness or Other ²	Standard R-value ³	Equivalent U-factor ⁴	JA4 Table Ref. ⁵	JA4 Table Ref. ⁵	Framed Cavity R-Value	Continuous Insulation R-Value ⁷	Cell: Row and Column	Proposed Assembly U-factor ^{8,9} or (R-value from Column JJ)	

Note: For furred assemblies, accounting for Continuous Insulation R-value, see Page JA4-3 and Equation 4-1. For calculating furred walls use the Mass and Furring Construction table below.

Prescriptive Certificate of Compliance:		CF-1R ADD
Residential Additions		(Page 2 of 5)
Site Address:	Enforcement Agency:	Date:

1. **Frame, Assembly, Size, Type:** **Frame type Assembly Type:** Indicate Roof/Ceiling, Walls, or Floors/Slabs/Crawl Space, Doors and **Size:** Indicate Wood, Metal, Metal Buildings, Mass, and Nominal Framing Size 2x4, 2x6, or CMU Thickness, etc... see JA4-1 for other Frame Types. **Type:** For Masonry enter CMU -LW, MW, LW; Clay Brick or Concrete
2. **Spacing:** Either 16" or 24" OC; **Thickness:** For Unit Masonry Wall; Property includes- U-factor, C-factor, or Heat Capacity (**HC**); or other JA4 descriptive term of the assembly. Reference the Appropriate Table- 4.3.5 through 4.3.7.
3. Enter the **Standard** U-factor from Table 143-A, B or C for each different **Assembly Type**. Enter R-value for mass enter and raised floors.
4. The equivalent U-factor is from the JA4 tables assuming R-0 Continuous Insulation.
5. List the JA4 table references to match Column.
- 6.-7. List the R-value if frame walls are used. Otherwise enter N/A (not applicable). Enter the Continuous Insulation R-value for the proposed assembly.
8. The Proposed Assembly U-factor, Column J, must be equal to or less than the **Standard** U-factor in Column D to comply.
9. For Mass-Furring only, use the table below to calculate the effects of furring on mass., Use the Final Assembly R-value from Column JJ below and enter it in Column J. The Proposed R-value must be greater than the Standard R-value in Column D to comply.

Mass and Furring Strips Construction											
AA	BB	CC	DD	Added Interior or Exterior Insulation in Furring Space from Reference Joint Appendix Table 4.3.13					JJ	KK	LL
Frame Type & Thickness ¹	Assembly Type	From Reference Joint Appendix JA4 Tables/ Row & Column	U-Factor ²	Row & Column	Frame Thickness	Frame Type Wood/Metal	Furring Cavity R-value ³	Calculated R-value ⁴	Final Assembly R-Value ⁵	Final Assembly U-factor ^{6,7}	Comment

- Mass and Furring Strips Construction (footnotes)**
1. Indicate the type of assembly to include; Hollow Unit Masonry Walls, Solid Unit Masonry, Solid Concrete Walls, Etc. Additional assemblies can be found Reference Joint Appendix JA4.
 2. This is the U-Factor based on the thickness of the assembly in inches.
 3. The R-value of the insulation to be added on the interior or exterior of the assembly.
 4. The Calculated R-Value is the R-value of the furred out section of the assembly.
 - 5.-6. The Final Assembly is calculated using Equation 4-2 or Equation 4-4 of the Reference Joint Appendix JA4. The equation is the inverse of Column DD added to Column II. Column KK is the inverse from column JJ.
 7. Insert the calculated U-factor value on to the Opaque Surface Details in Column J above table.

FENESTRATION PROPOSED AREAS					
Fenestration Type (Window, Glass Door or Skylight)	Orientation (North, East, South, West)	Proposed Area ¹ (ft ²)	Maximum U-factor ^{2, 3}	Maximum SHGC ^{2, 3, 4}	NFRC or Default Values ⁵
Total					

Prescriptive Certificate of Compliance:		CF-1R ADD
Residential Additions		(Page 3 of 5)
Site Address:	Enforcement Agency:	Date:

1. Fenestration area is the area of total glazed product (i.e. glass plus frame). Exception: When a door is less than 50% glass, the fenestration area may be the glass area plus a "2 inch frame" around the glass.
2. Enter value from Component Package D Requirements in Table 151-C.
3. Actual fenestration products installed and as indicated in CF-6R-ENV Form shall be equivalent to or have a lower U-factor and/or a lower SHGC value than that specified on the CF-1R Form.
4. Submit a completed WS-3R Form if a reduced SHGC is calculated with exterior shading.
3. If applicable at this stage enter "NFRC" for NFRC Certified windows or CEC "Default" values found in Table 116-A or B.

ADDITION ALLOWED FENESTRATION AREAS

	A	B	C	D	E		F
	CFA of Addition ft ²	Allowed % of CFA	Allowed Area (A x B)	Area Removed ² ft ²	Total Area Allowed (C + D)		Proposed Area ^{3, 4} (Table Above)
Total Fenestration Area						≥	
West Fenestration Area ¹ (Required In ClZs 2, 4 & 7 -15)		.05				≥	

1. West Fenestration Area includes west-sloping skylights and any skylights with a pitch less than 1:12.
2. West facing glazing area removed cannot be "counted" twice." In order to distribute the west glazing area removed to the other orientations, input the west glazing area removed in the Total Fenestration Area row, column D.
3. Include the Proposed Area of the West facing fenestration in both Area columns below.
4. To meet compliance, the Proposed Area must be less than or equal to the Total Allowed Area for BOTH the Total and West Fenestration Areas.

ROOFING PRODUCTS (COOL ROOFS) §151(f)12

Check applicable box below if the roof addition is exempt from the roofing product "Cool Roof" requirements. Note: If any one of the boxes are checked below, the Aged Solar Reflectance and Thermal Emittance requirements for roofing products in §118(i) are not applicable. Do not fill table below.

- Roofing compliance Not Required in Climate Zones 1-12, 14, and 16 with a Low Slope. Less or 2:12 pitch.
- Roofing compliance Not Required in Climate Zones 1 through 9 and 16 with a Low-Sloped. 2:12 pitch or less.
- Roofing area covered by building integrated; photovoltaic panels and solar thermal panels are exempt from the above Cool Roof criteria
- Roof constructions that have thermal mass over the roof membrane with at least 25 lb/ft² is exempt from the above Cool Roof criteria.

Note: If no CRRC-1 label is available, this compliance method cannot be used, use the Performance Approach to show compliance, otherwise, Check the applicable box below if Exempt from the Roofing Products "Cool Roof" Requirement:

CRRC Product ID Number ¹	Roof Slope		Product Weight		Product Type ²	Aged Solar Reflectance ^{3,4}	Thermal Emittance	SRI ⁵
	≤ 2:12	> 2:12	< 5lb/ft ²	≥ 5lb/ft ²				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		

1. The CRRC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at www.coolroofs.org/products/search.php
2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
3. If the Aged Reflectance is not available in the Cool Roof Rating Council's Rated Product Directory then use the Initial Reflectance value from the same directory and use the equation $(0.2+0.7(\rho_{initial} - 0.2))$ to obtain a calculated aged value. Where ρ is the Initial Solar Reflectance.
4. Check box if the Aged Reflectance is a calculated value using the equation above.
5. The SRI value needs to be calculated from a spreadsheet at <http://www.energy.ca.gov/title24/>

To apply **Liquid Field Applied Coatings**, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §118(i)4. Select the applicable coating:

<input type="checkbox"/> Aluminum-Pigmented Asphalt Roof Coating	<input type="checkbox"/> Cement-Based Roof Coating	<input type="checkbox"/> Other _____
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Prescriptive Certificate of Compliance:		CF-1R ADD
Residential Additions		(Page 4 of 5)
Site Address:	Enforcement Agency:	Date:

HVAC SYSTEMS - HEATING					
Heating Equipment Type and Capacity ^{1, 2, 3}	Minimum Efficiency (AFUE or HSPF)	Distribution Type and Location (Ducts, Hydronic in Floor, Radiators, etc.)	Duct or Piping Insulation R-Value	Thermostat Type	Configuration (Split or Package)
<p>1. Indicate Type (Central Furnace, Wall Furnace, Heat pump, Boiler, Electric Resistance, etc.)</p> <p>2. Electric resistance heating is allowed only when electric heating is supplemental (i.e., if total capacity ≤ 2 KW and electric heating is controlled by a time-limiting device not exceeding 60 minutes).</p> <p>3. Refer to the HERS Verification section on Pages 3 and 4 of the CF-1R-ADD Form for additional requirements and check applicable boxes.</p>					
HVAC SYSTEMS - COOLING					
Cooling Equipment Type and Capacity (A/C, Heat pump, Evap. cooling) ¹	Minimum Efficiency (SEER/EER or COP)	Distribution Type and Location (Ducts, Hydronic in Floor, Radiators, etc.)	Duct or Piping Insulation R-Value	Thermostat Type	Configuration (split or package)
1: Refer to the HERS Verification section on Pages 3 and 4 of the CF-1R-ADD Form for additional requirements and check applicable boxes.					

WATER HEATING					
List water heaters and boilers for both domestic hot water (DHW) heaters and hydronic space heating. Individual dwelling DHW heaters must be gas or propane fired, and may not exceed 50 gallons. Hot water pipe insulation from the DHW heater to the kitchen(s) and on all underground hot water pipes is required in all component packages in all climate zones.					
Water Heater Type/Fuel (Storage Gas, Heat Pump, Instantaneous, etc.)	Distribution Type (Standard, Recirculating) ¹	Number In System	Tank Capacity (gal)	Energy Factor or Thermal Efficiency	External Tank Insulation R-Value ²
<p>1. Recirculating systems serving multiple dwelling units shall meet the recirculation requirements of §150(n). The Prescriptive requirements do not allow the installation of a recirculating water heating system for single dwelling units.</p> <p>2. The water heating tank and pipes shall be insulated to meet the requirements of §150(j).</p>					

SPECIAL FEATURES The enforcement agency should pay special attention to the Special Features specified in this checklist below. These items may require written justification and documentation and special verification.
Radiant Barrier (Roof) <input type="checkbox"/> YES <input type="checkbox"/> NO YES: Required in Climate Zones 2, 4, and 8-15 for additions larger than 100ft ² .
Slab Edge (Perimeter) Insulation <input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zone 16 under Component Package D, R-7 insulation is required.
Heated Slab Insulation <input type="checkbox"/> YES <input type="checkbox"/> NO YES: Slab edge insulation required for heated slabs in all Climate Zones. See details in Table 118-A of the standards.
Raised Slab Insulation <input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zones 1, 2, 11, 13, 14 & 16 R-8 insulation is required, and in Climate Zones 12 & 15 R-4 insulation is required under Component Package D.
Thermal Mass - To obtain Compliance Credit for the installation of thermal mass, use the Performance Approach.

HERS VERIFICATION SUMMARY - The enforcement agency should pay special attention to the HERS Measures specified in this checklist below. A completed and signed CF-4R Form for all the measures specified shall be submitted to the building inspector before final inspection.

Prescriptive Certificate of Compliance:		CF-1R ADD
Residential Additions		(Page 5 of 5)
Site Address:	Enforcement Agency:	Date:

Duct Sealing & Testing *HERS verification is required for this measure.*

YES **NO** **YES:** In all Climate Zones, if a new space-conditioning system connected to an entirely new duct system is installed to serve the addition alone, the ducts are to be sealed and tested per §151(f)10.

YES **NO** **YES:** In Climate Zones 2 and 9-16, if more than 40 linear feet of new or replacement ducts are installed in unconditioned space to serve the addition, the ducts are to be sealed and tested per §152(b)1D.

EXCEPTION: Existing duct systems that are extended, which are constructed, insulated or sealed with asbestos.

YES **NO** **YES:** In Climate Zones 2 and 9-16, if the existing HVAC unit is replaced and will serve the addition, the ducts are to be sealed and tested per §152(b)1E.

EXCEPTION: Duct systems that are documented to have been previously sealed confirmed through HERS verification in accordance with procedures in the Reference Residential Appendix RA3.

EXCEPTION: Duct systems with less than 40 linear feet in unconditioned space.

EXCEPTION: Existing duct systems constructed, insulated or sealed with asbestos.

Refrigerant Charge - Split System *HERS verification is required for this measure.*

YES **NO** **YES:** In Climate Zones 2 and 8-15 in all Component Packages, if a newly ducted split A/C or heat pump is installed to serve the addition alone, a refrigerant charge measurement shall be verified per §151(f)7A.

YES **NO** **YES:** In Climate Zones 2 and 8-15 in all Component Packages, if the existing ducted split A/C or heat pump is replaced and will serve the addition, a refrigerant charge shall be verified per §152(b)1F.

Central Fan Integrated Ventilation System – Airflow and Fan Watt Draw
The ventilation requirements of §150(o) do not apply to additions 1,000 ft² or less.

Ducted Split Systems - Air Conditioners and Heat Pumps: Airflow and Fan Watt Draw *HERS verification is required for this measure.*

YES **NO** **YES:** In all Component Packages in Climate Zones 10 through 15, if a newly ducted split A/C or heat pump system is installed to serve the addition alone, the airflow and fan watt draw shall be verified per §151(f)7B.

YES **NO** **YES:** In all Component Packages in Climate Zones 10 through 15, if the existing ducted split A/C or heat pump system is replaced and will serve the addition, the airflow and fan watt draw shall be verified per §152(b)1F.

Documentation Author's Declaration Statement

• **I certify that this Certificate of Compliance documentation is accurate and complete.**

Name:	Signature:
Company:	Date:
Address:	If Applicable <input type="checkbox"/> CEA or <input type="checkbox"/> CEPE (Certification #):
City/State/Zip:	Phone:

Responsible Building Designer's Declaration Statement

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

Name:	Signature:
Company:	Date:
Address:	License:
City/State/Zip:	Phone:

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300.

Prescriptive Certificate of Compliance: Residential		CF-1R-ALT
Residential Alterations		(Page 1 of 5)
Project Name:	Climate Zone #	# of Stories

General Information		
Site Address:	Enforcement Agency:	Date:
Building Type <input type="checkbox"/> Single Family <input type="checkbox"/> Multi Family	Circle the Front Orientation: N, E, S, W, or degrees _____	
Conditioned Floor Area of Altered Space (CFA): _____	Project Type: <input type="checkbox"/> Alterations <input type="checkbox"/> Envelope <input type="checkbox"/> Fenestration <input type="checkbox"/> Roof <input type="checkbox"/> HVAC Replacement or Change Out <input type="checkbox"/> Duct Replacement <input type="checkbox"/> Water Heater	

NOTE: This form is not to be used for Newly Constructed Buildings or Additions

Insulation Values For Opaque Surfaces (for Furring use the Mass and Furring Strips Construction table below)

Assembly Alteration

Opening of framed cavity alone – Alterations that involve the opening of the framed cavity of a wall, ceiling, or floor must install the mandatory minimum insulation value per §150 for the altered assembly. Fill in Columns 1-3 and 5 Only.

Replacement of entire assembly – Replacement of an entire wall, ceiling, or floor assembly requires the installation of Component Package- D insulation values in Table 151-C. Fill in Columns 1-13. If not a mass wall skip column 4.

A	B	C	D	E	F	G	H	I	J
Standard Assembly <small>See Note and 1-3</small>		Proposed Values From JA4 Table ⁴⁻⁸							
Frame, Assembly, Size, Type ¹	Spacing, Thickness or Other ²	Standard R-value ³	Equivalent U-factor ⁴	JA4 Table Ref. ⁵	JA4 Table Ref. ⁵	Framed Cavity R-Value	Continuous Insulation R-Value ⁷	Cell: Row and Column	Proposed Assembly U-factor ^{8,9}

Note: For furred assemblies, accounting for Continuous Insulation R-value, see Page JA4-3 and Equation 4-1. For calculating furred walls use the Mass and Furring Construction table below.

1. **Frame, Assembly, Size, Type:** **Frame** type **Assembly** Type: Indicate Roof/Ceiling, Walls, or Floors/Slabs/Crawl Space, Doors and **Size:** Indicate Wood, Metal, Metal Buildings, Mass, and Nominal Framing Size 2x4, 2x6, or CMU Thickness, etc... see JA4-1 for other Frame Types. Type: For Masonry enter CMU -LW, MW, LW; Clay Brick or Concrete
2. **Spacing:** Either 16" or 24" OC; **Thickness:** For Unit Masonry Wall; Property includes- U-factor, C-factor, or Heat Capacity (**HC**); or other JA4 descriptive term of the assembly. Reference the Appropriate Table- 4.3.5 through 4.3.7.
3. Enter the **Standard** U-factor from Table 143-A, B or C for each different **Assembly Type**. Enter R-value for mass enter and raised floors.
4. The equivalent U-factor is from the JA4 tables assuming R-0 Continuous Insulation.
5. List the JA4 table references to match Column.
- 6.-7. List the R-value if frame walls are used. Otherwise enter N/A (not applicable). Enter the Continuous Insulation R-value for the proposed assembly.
8. The Proposed Assembly U-factor, Column J, must be equal to or less than the **Standard** U-factor in Column D to comply.
9. For Mass-Furring only, use the table below to calculate the effects of furring on mass., Use the Final Assembly R-value from Column JJ below and enter it in Column J. The Proposed R-value must be greater than the Standard R-value in Column D to comply.

Mass and Furring Strips Construction											
AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL
Frame Type & Thickness ¹	Assembly Type	From Reference Joint Appendix JA4 Tables/ Row & Column	U-Factor ²	Added Interior or Exterior Insulation in Furring cavity Space from Reference Joint Appendix JA4 Table 4.3.13				Final Assembly R-Value ⁵	Final Assembly U-factor ^{6,7}		Comment
				Row & Column	Frame Thickness	Frame Type Wood/Metal	Furring Cavity R-value ³				

Prescriptive Certificate of Compliance: Residential		CF-1R-ALT
Residential Alterations		(Page 2 of 5)
Project Name:	Climate Zone #	# of Stories

Mass and Furring Strips Construction (footnotes)

1. Indicate the type of assembly to include; Hollow Unit Masonry Walls, Solid Unit Masonry, Solid Concrete Walls, Etc. Additional assemblies can be found Reference Joint Appendix JA4.
2. This is the U-Factor based on the thickness of the assembly in inches.
3. The R-value of the insulation to be added on the interior or exterior of the assembly.
4. The Calculated R-Value is the R-value of the furred out section of the assembly.
- 5.-6.The Final Assembly is calculated using Equation 4-2 or Equation 4-4of the Reference Joint Appendix JA4. The equation is the inverse of Column D added to Column I. Column K is the inverse from column J.
7. Insert the calculated U-factor value on to the Opaque Surface Details in Column J

FENESTRATION PROPOSED AREAS					
<input type="checkbox"/> Replacing window alone – Replacement windows shall meet the U-Factor and SHGC Value requirements of Component Package D in Table 151-C. The Total Fenestration and West-facing Area requirements are not applicable.					
<input type="checkbox"/> Adding 50ft² or less of window area – Newly installed windows shall meet the U-Factor and SHGC Value requirements of Component Package D in Table 151-C. The Total Fenestration Area requirement is not applicable, but the existing west-facing fenestration area shall not be increased by more than 50 ft ² .					
<input type="checkbox"/> Adding more than 50ft² of window area – Newly installed windows shall meet the U-Factor and SHGC Value and the Fenestration Area requirements of Component Package D in Table 151-C. Complete the Altered Fenestration Allowed Area Table on Page 2 of the CF-1R-ALT					
Fenestration Type (Window, Glass Door or Skylight)	Orientation (North, East, South, West)	Proposed Area ¹ (ft ²)	Maximum U-factor ^{2, 3}	Maximum SHGC ^{2, 3, 4}	NFRC or Default Value ⁵
<ol style="list-style-type: none"> 1. Fenestration area is the area of total glazed product (i.e. glass plus frame). Exception: When a door is less than 50% glass, the fenestration area may be the glass area plus a “2 inch frame” around the glass. 2. Enter value from Component Package D Requirements in Table 151-C. 3. Actual fenestration products installed and as indicated in CF-6R-ENV Form shall be equivalent to or have a lower U-factor and/or a lower SHGC value than that specified on the CF-1R Form. 4. Submit a completed WS-3R Form if a reduced SHGC is calculated with exterior shading. 5.If applicable at this stage enter “NFRC” for NFRC Certified windows or are CEC “Default” values found in Table 116-A or B. 					

ALTERED FENESTRATION ALLOWED AREAS (Complete if more than 50ft² of fenestration is added)							
	A	B	C	D	E	F	G
	CFA of Entire Dwelling	Allowed % of CFA	Existing Fenestration Area	Fenestration Area Removed	Fenestration Area Added	Total Area Allowed (A x B)	Proposed Area ² (E-D) + C
Total Fenestration Area (ft ²)		.20					≥
West Fenestration Area ¹ (Required In ClZs 2, 4 & 7 -15)		.05					≥
<ol style="list-style-type: none"> 1. West Fenestration Area includes west-sloping skylights and any skylights with a pitch less than 1:12. 2. West facing glazing area removed cannot be “counted” twice.” In order to distribute the west glazing area removed to the other orientations, input the west glazing area removed in the Total Fenestration Area row, column D. 3. Include the Proposed Area of the West facing fenestration in both Area columns below. 4. To meet compliance, the Proposed Area must be less than or equal to the Total Allowed Area for BOTH the Total and West Fenestration Areas. 							

Prescriptive Certificate of Compliance: Residential		CF-1R-ALT
Residential Alterations		(Page 3 of 5)
Project Name:	Climate Zone #	# of Stories

ROOFING PRODUCTS (COOL ROOFS) §151(f)12

When the area of exterior roof surface to be replaced exceeds more than 50% of the existing roof area, or more than 1,000 ft², whichever is less, the new roofing area must meet the roofing product "Cool Roof" requirements of §152(b)1Hi, 152(b)1Hii, or 152(b)1Hiii.

Check applicable alternative or exception below if the roof alteration is exempt from the roofing product "Cool Roof" requirements. Note: If any one of the alternatives or exception below is checked, the Aged Solar Reflectance and Thermal Emittance requirements for roofing products in §118(i) are not applicable. Do not fill table below.

Alternatives to §152(b)1Hi and §152(b)Hii, Steep-slope roof (pitch > 2:12)

- Insulation with a thermal resistance of at least 0.85 hr-ft²-°F/Btu or at least a 3/4 inch air-space is added to the roof deck over an attic; or
- Existing ducts in the attic are insulated and sealed according to §151(f)10; or
- In climate zones 10, 12 and 13, with 1 ft² of free ventilation area of attic ventilation for every 150 ft² of attic floor area, and where at least 30 percent of the free ventilation area is within 2 feet vertical distance of the roof ridge; or
- Building has at least R-30 ceiling insulation; or
- Building has radiant barrier in the attic meeting the requirements of §151(f)2; or
- Building has no ducts in the attic; or
- In climate zones 10, 11, 13 and 14, R-3 or greater roof deck insulation above vented attic.

Exception to §152(b)1Hiii, Low-slope roof (pitch ≤ 2:12)

- Building has no ducts in the attic.

Other Exceptions

- Roofing area covered by building integrated; photovoltaic panels and solar thermal panels are exempt from the below Cool Roof criteria.
- Roof constructions that have thermal mass over the roof membrane with at least 25 lb/ft² is exempt from the below Cool Roof criteria.

Note: If no CRRC-1 label is available, this compliance method cannot be used, use the Performance Approach to show compliance, otherwise, Check the applicable box below if Exempt from the Roofing Products "Cool Roof" Requirement:

CRRC Product ID Number ¹	Roof Slope		Product Weight		Product Type ²	Aged Solar Reflectance ^{3,4}	Thermal Emittance	SRI ⁵
	≤ 2:12	> 2:12	< 5lb/ft ²	≥ 5lb/ft ²				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		

1. The CRRC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at www.coolroofs.org/products/search.php
2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
3. If the Aged Reflectance is not available in the Cool Roof Rating Council's Rated Product Directory then use the Initial Reflectance value from the same directory and use the equation $(0.2+0.7(p_{initial} - 0.2))$ to obtain a calculated aged value. Where p is the Initial Solar Reflectance.
4. Check box if the Aged Reflectance is a calculated value using the equation above.
5. The SRI value needs to be calculated from a spreadsheet at <http://www.energy.ca.gov/title24/>

To apply **Liquid Field Applied Coatings**, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §118(i)4. Select the applicable coating:

<input type="checkbox"/> Aluminum-Pigmented Asphalt Roof Coating	<input type="checkbox"/> Cement-Based Roof Coating	<input type="checkbox"/> Other _____
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Prescriptive Certificate of Compliance: Residential		CF-1R-ALT
Residential Alterations		(Page 4 of 5)
Project Name:	Climate Zone #	# of Stories

HVAC SYSTEMS - HEATING					
Heating Equipment Type and Capacity ^{1,2,3}	Minimum Efficiency (AFUE or HSPF)	Distribution Type and Location	Duct or Piping Insulation R-Value ⁴	Thermostat Type	Configuration (or Package)

1. Indicate Heating Type (Central Furnace, Wall Furnace, Heat pump, Boiler, Electric Resistance, etc.)
2. New heating equipment shall be limited to natural gas, liquefied petroleum gas, or the existing fuel type. Electric resistance heating is allowed as supplemental heating if the total capacity \leq 2 KW and electric heating is controlled by a time-limiting device not exceeding 60 minutes
3. Refer to the HERS Verification section on Page 4 of the CF-1R-ALT Form for additional requirements and check applicable boxes.
4. Indicate Type or Location (Ducts, Hydronic in Floor, Radiators, etc.)

HVAC SYSTEMS - COOLING					
Cooling Equipment Type and Capacity ^{1,2}	Minimum Efficiency (SEER/EER or COP)	Distribution Type and Location	Duct or Piping Insulation R-Value ³	Thermostat Type	Configuration (Split or package)

1. Indicate Cooling Type (A/C, Heat pump, Evap. Cooling, etc)
2. Refer to the HERS Verification section on Page 4 of the CF-1R-ALT Form for additional requirements and check applicable boxes.
3. Indicate Type or Location (Ducts, Hydronic in Floor, Radiators, etc.)

WATER HEATING					
<i>List water heaters and boilers for both domestic hot water (DHW) heaters and hydronic space heating. Individual dwelling DHW heaters must be gas or propane fired, and may not exceed 50 gallons. Hot water pipe insulation from the DHW heater to the kitchen(s) and on all underground hot water pipes is required in all component packages in all climate zones.</i>					
Water Heater Type/Fuel Type ^{1,2}	Distribution Type (Standard, Recirculation) ³	Number In System	Tank Capacity (gal)	Energy Factor or Thermal Efficiency	Tank Insulation R-Value ⁴

1. Indicate Type (Storage Gas, Heat Pump, Instantaneous, etc.)
2. The new water heater type shall be limited to natural gas, liquefied petroleum gas, or the existing fuel type.
3. Recirculating systems serving multiple dwelling units shall meet the recirculation requirements of §150(n). The Prescriptive requirements do not allow the installation of a recirculating water heating system for single dwelling units.
4. The external water heating tank and pipes shall be insulated to meet the requirements of §150(j).

SPECIAL FEATURES The enforcement agency should pay special attention to the Special Features specified in this checklist below. These items may require written justification and documentation and special verification.	
NEW ROOF ASSEMBLY - Radiant Barrier The radiant barrier requirement of §151(f)2 does not apply to roof alterations.	
Slab Edge (Perimeter) Insulation <input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zone 16 in Component Packages D, R-7 insulation is required.	
Heated Slab Insulation <input type="checkbox"/> YES <input type="checkbox"/> NO YES: Slab edge insulation required for all heated slabs in all Climate Zones. See details in Table 118-A of the standards.	
Raised Slab Insulation <input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zones 1, 2, 11, 13, 14 & 16, R-8 insulation is required; in Climate Zones 12 & 15, R-4 is required under component Package D.	
Thermal Mass To obtain Compliance Credit for the installation of thermal mass, use the Performance Approach.	

Prescriptive Certificate of Compliance: Residential		CF-1R-ALT
<i>Residential Alterations</i>		(Page 5 of 5)
Project Name:	Climate Zone #	# of Stories

<p>HERS VERIFICATION SUMMARY <i>The enforcement agency should pay special attention to the HERS Measures specified in this checklist below. A completed and signed CF-4R Form for all the measures specified shall be submitted to the building inspector before final inspection.</i></p>	
<p>Duct Sealing & Testing <i>HERS verification is required for this measure.</i></p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zones 2 and 9-16, if more than 40 linear feet of new or replacement ducts are installed in unconditioned space, the ducts are to be sealed per §152(b)1Dii and the newly installed ducts are to be insulated per §151(f)10.</p> <p style="padding-left: 40px;"><input type="checkbox"/> EXCEPTION: Existing duct systems that are extended, which are constructed, insulated or sealed with asbestos.</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zones 2 and 9-16, if an entirely new ducted system is installed, the ducts are to be sealed per §152(b)1Di.</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zones 2 and 9-16, if the existing HVAC is replaced (including the replacement of the air handler, outdoor condensing unit of a split system A/C or heat pump, cooling or heating coil, of the furnace heat exchanger) the ducts are to be sealed per §152(b)1E.</p> <p style="padding-left: 40px;"><input type="checkbox"/> EXCEPTION: Duct systems that are documented to have been previously sealed confirmed through HERS verification in accordance with procedures in the Reference Residential Appendix RA3.</p> <p style="padding-left: 40px;"><input type="checkbox"/> EXCEPTION: Duct systems with less than 40 linear feet in unconditioned space.</p> <p style="padding-left: 40px;"><input type="checkbox"/> EXCEPTION: Existing duct systems constructed, insulated or sealed with asbestos.</p>	
<p>Refrigerant Charge - Split System <i>HERS verification is required for this measure.</i></p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zones 2 and 8-15, when the existing ducted split A/C or heat pump is replaced (including the replacement of the air handler, outdoor condensing unit of a split system A/C or heat pump, cooling or heating coil, or the furnace heat exchanger) the refrigerant charge shall be verified per §152(b)1F.</p>	
<p>Central Fan Integrated (CFI) Ventilation System and Fan Watt Draw</p> <p>The ventilation requirements of §150(o) do not apply to existing residential homes.</p>	
<p>Ducted Split Systems - Air Conditioners and Heat Pumps: Airflow <i>HERS verification is required for this measure.</i></p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO YES: In Climate Zones 10 through 15, when the entire existing space conditioning system (HVAC equipment plus the ducts) is replaced, the airflow and fan watt draw shall be verified per §152(b)1Ci to meet the requirements of §151(f)7B.</p>	

Documentation Author's Declaration Statement	
<ul style="list-style-type: none"> • I certify that this Certificate of Compliance documentation is accurate and complete. 	
Name:	Signature:
Company:	Date:
Address:	If Applicable <input type="checkbox"/> CEA or <input type="checkbox"/> CEPE (Certification #):
City/State/Zip:	Phone:

Responsible Building Designer's Declaration Statement	
<ul style="list-style-type: none"> • I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. • I certify that the energy features and performance specifications for the building design identified on this Certificate of Compliance conform to the requirements of Title 24, Parts 1 and 6 of the California Code of Regulations. • The building design features identified on this Certificate of Compliance are consistent with the information provided to document this building design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 	
Name:	Signature:
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