CERTIFI	CATE (	OF COM	PLIANCI	E: RESIDEN	TIAL	Page 1 of 5)	CF-1R
Project Title				Date		Building Permit	#
Project Address	S					_	
		Plan Check / Dat	e				
Documentation	Author			Telephone		Field Check / Da	40
Compliance Me	ethod (Prescr	iptive)		Climate Zone		Field Check / Da	te
						Enforcement Ag	ency Use Only
• Packa	ge C and Pac	kage D choice	s require HERS	C D rater field verification 2151-C Footnotes 8-	on and/or diagn	ostic testing (see C	
GENERA Total Condition							
Average Ceilin	g Height:	ft					
Check Applicable Box	ces						
(If addin	g fenestration	n fill-out WS-4		ily Multifamil Maximum Allowed )		et and see Section	
• Maxin	num Allowed	Total Fenestr	ation Area	ft <sup>2</sup> (from	WS-4R)		
<ul> <li>Maxin</li> <li>Numb</li> </ul>	num Allowed er of Stories:	l West Facing N	Fenestration Ar umber of Dwell	eaiing Units:i	ft² (from WS-4I	₹)	
<ul> <li>Floor</li> </ul>	Construction	Type:	Slab/Rais	ed Floor (circle one	or both)		
• Front of from T	Orientation: _ True North an	d circle one).	North / South / I	East / West : All Ori	entations (input	front orientation in	n degrees
□ RADIANT	BARRIEI	R (check box i	f required in cli	mate zones 2, 4, 8-1	<u>5)</u>		
<b>OPAQUE</b>	SURFAC	ES INCL	UDING OF	PAQUE DOOR	<u>RS</u>		
Component Type (Wall, Roof, Floor,	Frame Type	Cavity	Continuous	Assembly U- factor (for wood, metal frame and	Joint Appendix	Roof Radiant Barrier	Location Comments
Slab Edge, Doors)	(Wood or Metal)	Insulation R-Value	Insulation R-Value	mass assemblies) 1	IV Reference	Installed <sup>2</sup> Yes or No	(attic, garage, typical, etc.)
_ = = = = = = = = = = = = = = = = = = =	1110001)	11 , 4140	11 , 4140				-, ,,

Component Type (Wall, Roof, Floor, Slab Edge, Doors)	Frame Type (Wood or Metal)	Cavity Insulation R-Value	Continuous Insulation R-Value	Assembly U- factor (for wood, metal frame and mass assemblies) <sup>1</sup>	Joint Appendix IV Reference	Roof Radiant Barrier Installed <sup>2</sup> Yes or No	Location Comments (attic, garage, typical, etc.)
1) G I i i i		G .: 177.0		1:1:1:0			

<sup>1)</sup> See Joint Appendix IV in Section IV.2, IV.3, and IV.4, which is the basis for the U-factor criterion. U-factors can not exceed prescriptive value to show equivalence to R-values.

2) This column is for the Inspector to verify installation of roof radiant barrier.

CERTIFICATE OF COMPLIANCE: RESIDENTIAL (Pa	ge 2 of 5) CF-1R
Project Title	Date
FENESTRATION PRODUCTS – U-FACTOR AND SHGC	

✓ ☐ FENESTRATION MAXIMUM ALLOWED AREA WORKSHEET WS-4R – must be included for New Construction, Additions, and Alterations.

Fenestration #/Type/Pos. (Front, Left, Rear, Right,	Orien- tation,	Area		U-factor		SHGC	Exterior Shading/Overhangs <sup>6, 7</sup> ✓ box if WS-3R is
Skylight)	N, S, E, W <sup>1</sup>	$(ft^2)$	U-factor <sup>2</sup>	Source <sup>3</sup>	SHGC <sup>4</sup>	Source <sup>5</sup>	included

- 1) Skylights are now included in West-facing fenestration area if the skylights are tilted to the west or tilted in any direction when the pitch is less than 1:12. See §151(f)3C and in Section 3.2.3 of the Residential Manual.
- 2) Enter values in this column from either NFRC Certified Label or from Standards Default Table 116-A.
- 3) Indicate source either from NFRC or Table 116-A,
- 4) Enter values in this column from NFRC or from Standards Default Table 116B or adjusted SHGC from WS-3R.
- 5) Indicate source either from NFRC, Table 116B or WS-3R
- 6) Shading Devices are defined in Table 3-3 in the Residential Manual and see WS-3R to calculate Exterior Shading devices.
- 7) See Section 3.2.4 in the Residential Manual.

## **HVAC SYSTEMS**

Heating Equipment Type and Capacity (furnace, heat pump, boiler, etc.)	Minimum Efficiency (AFUE or HSPF)	Distribution Type and Location (ducts, attic, etc.)	Duct or Piping R-Value	Thermostat Type	Configuration (split or package)
Cooling Equipment Type and Capacity (A/C, heat pump, evap. cooling)	Minimum Efficiency (SEER or EER)	Distribution Type and Location (ducts, attic, etc.)	Duct or Piping R-Value	Thermostat Type	Configuration (split or package)

CER	RTIFICATE OI	F COMPLI	ANCE: RI	ESIDEN	TIAL	(Page 3 of	f 5) (	F-1R				
Project	t Title					Date	•					
	D DUCTS and TXVs (							•				
A signed  ✓	l CF-4R Form must be រុ	provided to the bu	ııldıng departmer	it for each ho	me for which	h the followin	g are require	d.				
	Saalad Duote (all alim	note zones) (Instal	lar testing and ce	rtification or	d HEDC rote	or field verific	otion require	4)				
	Sealed Ducts (all climate zones) (Installer testing and certification and HERS rater field verification required.)  TXVs, readily accessible (climate zones 2 and 8-15 only)											
		(Installer testing and certification and HERS Rater field verification required.)										
	Refrigerant Charge (climate zones 2 and 8-15 only) (Installer testing and certification and HERS Rater field											
	verification required.)	)										
0	R											
	Alternative to Sealed Project Climate Zone					native Packag	ge Features fo	or				
0	R		IGIN B TUOIC 151	e, i comote.	, , 11.							
	No ducts installed.											
	New ducts from exist											
	For additions and alte											
	through field verificat											
	Duct systems with mo			oned spaces s	shall meet the	e requirement	s of Section	150(m)				
	and duct msuration ic	quirements of 1 ac	ckage D.									
WATEI	R HEATING SYSTEM	1S										
✓												
	Check box if system in unit. If the water hear											
	Check box when usin											
	Manual. No water hea											
_	Check box if system of											
	Alternative Water He	ating table. In thi	is case, the Perfor	mance Meth	od must be u	sed and must	be included	in the				
	submittal.  Check box to verify the	hat a time control	is required for a	racirculatina	cuctom num	n for a system	corving mu	tiple 1				
	s serving single dwel					•						
System	s ser ving single dwe	ling units (see i			ricating byste	Energy	tion requirem	Tank				
				Rated Input <sup>1</sup>	Tank	Factor <sup>1</sup> or		External				
	Water Heater	Distribution	Number	(kW or	Capacity	Thermal	Standby <sup>1</sup>	Insulation				
'	Type/Fuel Type	Type	in System	Btu/hr)	(gallons)	Efficiency	Loss (%)	R-Value				
System	serving multiple dw	elling units (See	Residential Manu	al Section 5.3	3) 7							
~ y seem	ser ing munipie un	Ling units (Sco	- Residential Ividilu		<i>-,</i>	Energy		Tank				
1				Rated Input <sup>1</sup>	Tank	Factor <sup>1</sup> or		External				
1	Water Heater	Distribution	Number	(kW or	Capacity	Thermal	Standby <sup>1</sup>	Insulation				
	Type	Type	in System	Btu/hr)	(gallons)	Efficiency	Loss (%)	R-Value				
1												
·												
		+		<del> </del>								

<u>Pipe Insulation</u> (kitchen lines  $\geq 3/4$  inches) All hot water pipes from the heating source to the kitchen fixtures that are  $\frac{3}{4}$  inches or greater in diameter shall be thermally insulated as specified by Section 150 (j) 2 A or 150 (j) 2 B.

For small gas storage water heaters (rated inputs of less than or equal to 75,000 Btu/hr), electric resistance, and heat pump water heaters, list Energy Factor. For large gas storage water heaters (rated input of greater than 75,000 Btu/hr), list Rated Input, Recovery Efficiency, Thermal Efficiency and Standby Loss. For instantaneous gas water heaters, list Rated Input and Thermal Efficiencies.

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Project Title	Date	

## SPECIAL FEATURES REQUIRING BUILDING OFFICAL or HERS RATER VERIFICATION

Indicate which special features are parts of this project. The list below only represents special features relevant to the prescriptive method. (Check Applicable boxes)

(Check Applica			HERS Rater	
Category	Building Official Verification of Special Features	HERS Rater Verification	Diagnostic Testing	Measure
Ducts	opeolari catares	vermeation	resung	Modelie
	Y			100% of ducts in crawlspace/basement
	1	Υ		Buried ducts
		Y		Diagnostic supply duct location, surface area, and R-value
	Y	'		Duct increased R-value
	1		Υ	Duct leakage
	Y		<u>'</u>	Ducts in attic with radiant barriers
	,	Υ		Less than 12 ft. of duct outside conditioned space
		Y		Non-standard duct location
	Y	'		Supply registers within two ft of floor
	1			Outpry registers within two it of noor
Envelope				
	Y	=		Air retarding wrap
	Y			Cool roof
	Y			Exterior shades
	Y			
	Y			High thermal mass  Inter-zone ventilation
	Y			Metal framed walls
	Y			
	Y	Y		Non-default vent heights
	Y	Y		Quality insulation installation
	Y			Radiant barrier
	.,		Υ	Reduced infiltration (blower door). May also require mechanical ventilation.
	Y			Solar gain targeting (for sunspaces)
	Y			Sunspace with interzone surfaces
	Y			Vent area greater than 10%
HVAC Equipm	ent			T.,
			Υ	Adequate air flow
		Y	.,	Air conditioner size
			Υ	Air handler fan power
		Υ		High EER
	Υ			Hydronic heating systems
		Υ		Mechanical ventilation
			Y	Refrigerant charge
		Y		Thermostatic expansion valve (TXV)
	Υ			Zonal control
Water Heater				Tarana ara
	Y			Combined hydronic
	Y			High EF for existing water heaters
	Y			Non-NAECA water heater
	Υ			Non-standard water heaters (wh/unit)
	Υ			Water heater distribution credits

<b>CERTIFICATE OF COMPLIANCE: I</b>	RESIDENTIAL	(Page 5 of 5)	CF-1R
Project Title		Date	
pecial Remarks			
COMPLIANCE STATEMENT			
This certificate of compliance lists the building fea Parts 1 and 6 of the California Code of Regulations certificate has been signed by the individual with o compliance using duct design, duct sealing, verificate quality, and building envelope sealing require instantant approved HERS rater.	s, and the administrative verall design responsibi ation of refrigerant char	regulations to imple lity. The undersigne ge and TXVs, insula	ement them. d recognizes tion installati
signer or Owner (per Business and Professions Code)	Documentation Au	ıthor	
Name:	Name:		
Title/Firm:	Title/Firm:		
Address:	Address:		
Telephone:	Telephone:	<u> </u>	
License #:	License #: (if applicable)	<del>v</del>	
(signature) (date)	(signature)		(date)
forcement Agency			
me:	Comments:		
le			
ency:			
lephone:			
onature / stamn) (date)			