Prescriptive Certificate of Compliance: Residential CF-1R										
Newly Constructed Buildings and Additions Greater Than 1,000 ft ² (Page 1 of 5)										
Project N				•		Climate	Climate Zone #			
General 1	Information									
Site Add	ress:		Enforce	ment Agency:		Date	e:			
Building '	Type 🗖 Single Fami	ly 🛭 Multi Fam	ily	Conditioned Floor	Area ¹ (CFA):					
	Front Orientation: N	I, E, S, W, or		roject Type: 🗖 N						
Degrees_			1	. Additions greate						
	nt Package: (Check o		E (E Alternat	ive) in Climat	e zone 1 and	16 only. See for	ootnotes to Ta	ble 151-D	
for alterna	ative optional require	ments.								
Opaque	e Surface Details	For the furred j	ortioned (of Mass Walls see	Furring Stri	ips Construc	tion Table belo	w.		
A	В	C	D	E	F	G	Н	I	J	
	Pro	posed See Note		Standard		Va	lues From JA4	Гable		
		Framing	Thickne	· •		Framed	Continuous	JA4	Proposed	
Tag/	Assembly Name	Material	Spacing		JA4 Table	Cavity	Insulation	Assembly	Assembly	
IDi	or Type ²	and Size ²	or Othe	r ³ factor ⁴	Number ⁵	R-value ⁶	R-Value ⁷	Row/Col ⁸	U-factor ⁹	
	furred assemblies, accor onstruction table below.	unting for Continuo	us Insulatioi	ı R-value, see Page .	JA4-3 and Equa	ttion 4-1. For t	calculating furred	walls use the N	lass and	
1. For Tag	g/ID indicate the ider	ntification name ti	hat matche.	s the building plan	ıs.					
2. Indicate the Assembly Name or type: Roof/Ceiling, Walls, Floors, Slabs, Crawl Space, Doors and etcIndicate in column G the Frame										
	al and Size: For Woo		-		~					
	3. Enter the thickness for mass in inches or Spacing between framing members enter; 16" or 24" OC; or Other for all other assembly description such as Concrete Sandwich Panel, Spandrel Panel, Logs, Straw Bale Panel, and etc.									

- 4. Based on the Climate Zone; enter the equivalent U-factor found in JA4 Table based on the R-Value from Table 151-B, C, or D
- 5. Enter the Table number that closely resembles the proposed assembly.
- 6. Enter the R-value that is being installed in the wall cavity or between the framing; otherwise, enter "0".
- 7. Enter the Continuous Insulation R-value for the proposed assembly; otherwise, enter "0".
- 8. Enter the row and column of the U-factor value based on Column F Table Number and enter the Assembly U-factor in Column J.
- 9. The **Proposed** Assembly U-factor, Column J, must be equal to or less than the **Standard** U-factor in Column E to comply.

Furring Strip	Furring Strips Construction Table for Mass Walls Only											
A	В	C	D	E	F	G	H	I	J	K	L	M
Proposed P	roperties of M	asonry and	Concre	ete	Ad	lded In	terior or l	Exterior I	nsulatio	n		
Joint A	Walls From F ppendix Table		4.3.7		in Furring Space from Reference Joint Appendix Table 4.3.13							
Mass Thickness ¹	Assembly Name or Type ²	JA4 Table Number ³	JA4 -Mass Cell Value ⁴	Mass U-Factor ⁵	Interior or Exterior of Insulation Layer	Frame Thickness	Frame Type Wood or Metal	Furing Cavity R-value³	JA4 -Mass Cell Value ⁴	Effective R-value ⁵	Final Assembly U-factor ^{6,7}	Comment
												_

- 1. Indicate the Mass Thickness from Reference Joint Appendix JA.
- 2.Indicate the Assembly Name or type: Roof/Ceiling, Walls, Floors, Slabs, Crawl Space, Doors and etc...Indicate the Frame type and Size: For Wood, Metal, Metal Buildings, Mass, enter 2x4, 2x6, or etc... see JA4 for other possible frame type assemblies.
- 3. Enter the Table number that closely resembles the proposed assembly.
- 4. Enter the row and column of the U-factor value.
- 5. Enter the Effective R-value listed in the JA4 Table Number.
- 6. The Final Assembly is calculated by using Equation 4-1 or Equation 4-4 of the Reference Joint Appendix JA4. Enter the value in Column L.
- 7. Insert the Final Assembly U-factor value back on to the Opaque Surface Details table in Column J.

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

FENESTRATION: PROPOSED AREAS									
Fenestration Type and Frame (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				
	ļ								
	ļ								
	ļ								
Total									

- 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 or overhangs.
- 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 ²	Allowed Area (CFA x Allowed %)	Total Proposed Area (From Table Above)				
Total Fenestration Area ^{1,2}								
West Fenestration Area ³ (Required only in Climate Zones 2, 4 & 7 -15)		.05						
		Total Area ³	2					

- 1. For Component Package C, see Table 151-B for Climate Zone Maximum Total Area Allowance.
- 2. For all other packages enter 20% when no West orientation restriction or 15% when West fenestration is being installed in Climate Zones 2,4, & 7-15.
- 3. The Proposed West Fenestration Area includes west-sloping skylight area and any other skylight area with a pitch less than 1:12.
- 4. To meet energy compliance the Total Proposed Area must be less than or equal to the Allowed Area.

Prescriptive Certificate of Con Newly Constructed Buildings a	_			1 000 ft ²				/D	CF-1R age 3 of 5)
Project Name:	na Auaiiior	is Grea	ier Thun .	1,000 ji	Cl	imate	Zone #		# of Stories
ROOFING PRODUCTS (COO	DL ROOFS) §151(f)	12						
Check applicable box below if the newly									
boxes are checked below, the Aged Sold	r Reflectance	and Ther	mal Emittan	ce requirer	nents for roo	fing p	roducts in §11	l8(i) are not a	pplicable. Do
not fill table below. ☐ Cool Roofs Not Required in Climat	2 7 ones 1-12	14 and 1	6 with a Lov	v Sloped 1	ess or 2.12	nitch			
□Cool Roofs Not Required in Climate				-		_	ter than 2:12)	and product i	ınit weight
less than $5lb/ft^2$.	Zones i uno	.g.: > u.:u	10 11111 11 0	oop stope.	. 110015 (p100	6	ver v = ,	una product t	
Other Exceptions									
☐ Roofing area covered by building inte									
☐ Roof constructions that have thermal i						•			
Note: If no CRRC-1 label is available, the	-					Appro	oach to show	compliance, o	therwise, che
he applicable box below if Exempt from	the Roofing P	roducts "	Cool Roof"	Requireme	ent:	,	•		
1	Roof			Weight	Product		ged Solar	Thermal	5
CRRC Product ID Number ¹	≤ 2:12			$\geq 5 \text{lb/ft}^2$	Type ²	Reflectance ^{3,4}		Emittance	SRI ⁵
						\square^4			
						\Box^4			
						\square^4			
						\square^4			
1. The CRRC Product ID Number can be	obtained from	the Coo	l Roof Ratin	g Council's	Rated Prod	uct Di	rectory at		
www.coolroofs.org/products/search.ph				G			, , , , , , , , , , , , , , , , , , , ,		
2. Indicate the type of product is being us		f top, i.e.	single-ply re	oof, asphali	roof, metal	roof, e	etc.		
. If the Aged Reflectance is not available	e in the Cool R	Roof Ratin	g Council's	Rated Pro	duct Director	ry ther	n use the Initio	al Reflectance	value from th
same directory and use the equation					ed value. W	here $ ho$	is the Initial	Solar Reflecta	nce.
t. Check box if the Aged Reflectance is a		_	-						
. Calculate the SRI value by using the S		at <u>http://</u>	www.energy	.ca.gov/titl	<u>e24/</u> and ent	er the	resulting valu	e in the SRI C	Column above
and attach acopy of the SRI- Worksheet t									
To apply Liquid Field Applied Coating	s, the coating i	must be a	pplied acros	s the entire	roof surface	and n	neet the dry m	il thickness of	r coverage
ecommended by the coatings manufactu	rer and meet n	nınımum	performance	e requireme	ents listed in	§118(1	1)4. Select the	e applicable co	oating:
☐ Aluminum-Pigmented Asphalt Roof	Coating	☐ Ceme	ent-Based R	oof Coating	3		Other		
HVAC SYSTEMS - HEATING	2								
IIVAC SISIEMS - HEATIIK	J							Conf	iguration
	Minimum		Distributio	n	Duct or Pipi	ng			ral, Split,
Heating Equipment	Efficiency	,	Type and		Insulation		Thermostat	Space,	Package or
Type and Capacity ^{1, 2, 3}	(AFUE or HSF	PF)	Location 2	,	R-Value		Type	Hy	dronic)
	*** **			, 51	n :	77 -			
1. Indicate Heating Type (Central Furn.						-		-1 6 · · · · · · ·	1
2. Electric resistance heating is allowed			-	-		-			
≤ 2 KW or 7,000 Btu/hr electric head	-	-	_		_				
3. Refer to the HERS Verification sectio 4. Indicate Type or Location (Ducts, Hy	-	-		orm jor aad	шопан гедин	ıremen	us ana check i	аррисавіе во:	ies.
Type or Locution (Ducis, 11)	aronic in 1 100	., 1.44141	o. o, e.c. <i>j</i>						

Prescriptive Certificate of Compliance: Residential CF-1R									
Newly Constructed Buildings and Additions Greater Than 1,000 ft ² (Page 4 of 5)									
Project Name:					Clima	te Zone #		# of Stories	
HVAC SYSTEMS - CO	OOLIN	$\overline{\mathbf{G}}$							
		Minimum						onfiguration	
Cooling Equipment		Efficiency (SEER/EER or	Distribution Type and		t or Piping Isulation	Thermostat		entral, Split, e, Package or	
Type and Capacity ^{1, 2}		COP)	Location ³		R-Value	Туре		Hydronic)	
1. Indicate Type (A/C, Heat p	~		*						
2. Refer to the HERS Verification				rm for additio	nal requirem	ents and check app	olicable l	boxes.	
3. Indicate Type or Location (Ducts, H	yaronic in Floor, Ka	aiators, etc.)						
WATER HEATING	four both	domantia hat water	(DHW) hastons s	u d buduonio a	nace heating	In dividual devalli	a DIII	Theatens must be	
List water heaters and boilers gas or propane fired and may	-				-		-		
underground hot water pipes				-	ii iiie Biiii i		n(s) unu	on an	
							F	External Tank	
Water Heater Type/Fuel		istribution Type	Number In	Tank Capac	-	nergy Factor or		Insulation	
Type ¹	(Stand	dard, Recirculating) ²	System	(gal)	Th	Thermal Efficiency		R-Value ³	
1. Indicate Type (Storage Gas	, Heat Pi	ump, Instantaneous, e	etc)				<u> </u>		
2. Recirculating systems servi		-		_		150(n). The Prescr	riptive re	equirements do	
not allow the installation of				_	its.				
3. The water heating tank and	pipes sn	all be insulated to me	eet tne requireme	nts of §130(j)					
CDECLAL EFACUDES) mr. /				~				
SPECIAL FEATURES These items may require write					Special Fea	tures specified in t	his checi	klist below.	
Radiant Barrier (Roof		YES DNO	ation and special	verification.					
YES: Required in Climate Zo.			ent Packages C I	and F					
Slab Edge (Perimeter)			□ NO	o una E.					
YES: In all Climate Zones us				ne 16 under Co	omponent Pa	ckages D and E, R	-7 insula	tion is required.	
Heated Slab Insulation								•	
YES: Slab edge insulation req	uired for	heated slabs in all Co	omponent Packag	ges in all Clim	ate Zones. S	See details in Table	118-A c	of the standards.	
Raised Slab Insulation	□YI	ES 🗆 NO							
YES: In Climate Zones 1, 2, 1			•		nes 12 & 15	R-4 insulation is re	quired u	nder Component	
Packages D and E. Raised sla			Component Pac	kage C.					
Thermal Mass □ YES □ 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.									
statiuarus. 11 1 cs, sudmit a co	mpieted	W 9-1K LOHU							

Prescriptive Certificate of Compliance: Residential CF-1R								
Newly Constructed Buildings and Additions Greater Than 1,000 ft ² (Page 5 o								
Project Name:	-	Climate Zone #	# of Stories					
HEDG VEDICIGATION CHIMMADY TO			.0.1.1.					
HERS VERIFICATION SUMMARY The enforcement agence								
checklist below. A completed and signed CF-4R Form for all the measur inspection.	es specifiea snaii be s	ubmittea to the building inspector b	vejore jinai					
Duct Sealing & Testing ☐ YES ☐ NO								
YES: New ducted systems are to be sealed and duct leakage shall be less	than 6% ner 8151(f)1	0 in all Component Packages in all	Climate Zones					
HERS verification is required for this measure.	anan 070 per §131(1)1	o in an component rackages in an	emmate Zones.					
Refrigerant Charge - Split System □ YES □ NO								
YES: In Climate Zones 2 and 8-15 in all Component Packages, when a n	ewly ducted split A/C	or heat pump is installed, a refriger	ant charge					
measurement shall be verified per §151(f)7A.								
HERS verification is required for this measure.								
Central Forced Air Handlers: Integrated Ventilation Sys	stem Watt Draw	□ YES □ NO						
YES: In all Component Packages and in all Climate Zones, when a centre			e ventilation					
requirements of §150(o), the central forced air system fans must draw les	-							
HERS verification is required for this measure.								
Ducted Split Central Air Conditioners and Heat Pumps:	Airflow and Wa	att Draw						
YES: In all Component Packages in Climate Zones 10 through 15, when	a newly ducted split	A/C or heat pump system is installed	d, the airflow					
and fan watt draw shall be verified per §151(f)7B.								
HERS verification is required for this measure.								
Documentation Author's Declaration Statement								
I certify that this Certificate of Compliance documentation is accommon to the second se								
Name:	Signature:							
Company:		Date:						
Address:		If Applicable						
		☐ CEA or ☐ CEPE (Certification #):						
City/State/Zip:		Phone:						
Responsible Building Designer's Declaration Statement								
• I am eligible under Division 3 of the California Business and Profess	sions Code to accept r	esponsibility for the building design	n identified on					
this Certificate of Compliance.I certify that the energy features and performance specifications for t	he huilding docion id	entified on this Cartificate of Commi	liance conform					
to the requirements of Title 24, Parts 1 and 6 of the California Code	of Regulations.	enumed on any Ceranicale of Compl	nance comoin					
The building design features identified on this Certificate of Compliance	ance are consistent wi							
building design on the other applicable compliance forms, workshee								
agency for approval with this building permit application. Name:	Signature:							
Tallie.	Signature.							
Company:		Date:						
Address: License:								
City/State/Zip: Phone:								
		·						
For assistance or questions regarding the Energy Standards, com	tact the Energy Ho	tline at: 1-800-772-3300.						
1								

Registration Number: Registration Date/Time: HERS Provider: 2008 Residential Compliance Forms