



BLD08-1899

Permit Number

34285

Street Number

KRUSE RANCH RD

Street Name

TIM

Community Code

109-030-003

APN

COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT 2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103 Please Print Date Applied: 13 MAY 08 Your Name: winner INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT SITE LOCATION INFORMATION -- PRINT CLEARLY. Ġ Kruse Ranch Clty: Plantatio. Project Fax #: (Unit. APN: 109 030 003 Project Phone #: (817 0050 Cross-Street: HUY 1 to Son View to Kruce Routed Rod Subd. Name Lot Brown House Addit Living Area Contract Price: AZD 515 adition "OWNER NAME AND ADDRESS APRLICANT NAME AND ADDRESS 12. Murra. David anne 1864 Mailing Address: 34285 Rd ? O. BOX Kruse ZIFC154-21 State State: ZIF95473 nzacero Sebastopol Day Ph: (**84** 0050 829 5596 Fax: (26) 223 CONTRACTOR INFORMATION COTHER PERSONS (ARCHITECT, ENGINEER, ETC.) Company Name: abouc lle City: ZIP: City: State: States ZIP: Day Ph: (Fax: (Day Ph; (Fax: (License No Exp. Date WORKER'S COMPENSATION DECLARATION ffirm under penalty of perjury one of the following declarations: and will maintain a certificate of consent to self-insure for worker's compensation, as ad for by Section 3700 of the Labor Code, for the performance of the work for which this CONSTRUCTION LENDING DECLARATION I hereby affirm under penalty of perjury that there is a construction lending agency for the perform the work for which this permit is issued. (Sec. 3097, Civ. C.). permit is issued CI I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are: Lenders Name Lenders Address Carrie FOR DEPARTMENT USE BL 160/1640 SR G. S.F.Dr., Studio, Do. No. (This section need not be completed if the permit is for one hundred dollars (\$100) or less). I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions. Zoning TP CC Zoning | Y CL But | State | St ents: Front **75** require all parcels gro ater than 1 Acre to have a min. 30' setback unless mitigated. Mitigation Required Address subject to change Approval for Occupancy with Hood WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3708 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES. <u> 5-14-08</u> req <u>ADR</u> PERMIT NUMBER: Corsider OWNER-BUILDER DECLARATION I hereby affirm under penalty of perjury that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, Improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500).): 10% - Less thou Permit Discusse 77 Ф ☐ Available Tees Paid I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the 4-08 FITTAETC EFILK building or improvement Is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for the purpose of sale.). I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.). 100 Year Flood Elevation Drainage Review am exempt under Sec. Approved by: LICENSED CONTRACTOR'S DECLARATION film under penalty of periory that I am licensed under provisions of Chapter 9 Approved by: Date I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. Code Enforcement Violation ☐ Yes This permit is limited to Lic, No. Contractor ASBESTOS DECLARATION Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that (□ does) (□ does not) Add to contain asbestos, or that I no demolition is authorized by this permit. Plans Approved No Plans Subject to Field In Post FIRM Alquist Priolo Report Available I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local Ordinances and State laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making the Certificate of Exemption for the Worker's Compensationforovision of the Labor Code I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workman's Compensation law, this permit shall be deemed revoked. Pre FIRM Geotechnical report Available AREA Type of Occupancy VW Certificate of d revoked. 0 NO PERMITTEE SIGNATUR PAMACHUE Special OFFERFUL FIEC D ADDRESS CITY 21P Contractor □ Owner ther Licensed Professional AUG 1 8 2008 Final Date: inspector: PERMIT AND RESOURCE MANAGEMENT DEPARTMENT COUNTY OF SONOMA

THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT

Distribution: White - File Canary - Applicant Pink - Audit Copy Blue - Assessor Cardstock - Inspector

131) - SPECIAL INSPECTION REQ	JIRED	☐ YES	NO IF YES, SEE ADDITIONAL SHEET
INSPECTION RECORD	DATE	NAME	REMARKS
101) ROUGH GRADING			
103) FOUNDATION PAR			(163,DIL. TO pour pAB, 4NDICATED,
FORMS/SETBACK	 		by a yellow that love see sutly
FOOTING WALLS	ļ		(120 100 100 1011 + Bloom 11 5-17-08 St
106) UFER GROUND #	4 2	67/1-1	132,128,122) O.K. to MOSE! MEXT. lawer (wel sor fets. 2-27-09' Side
104) CAISSONS/PIERS	10-170	8 <i>5.</i> /-	1000 2015/07) 2-6-1-01 Bets
105) SLAB	- 110	V-7.01	
107) UNDERGROUND UTILITIES	-	-	
110) MASONRY			
109) RETAINING WALLS	·		
113) FIREPLACE			
FOOTING			
HEARTH/PROTECTION	 		
THROAT			
114) CHIMNEY			
120) UNDERFLOOR/UNDERSLAB	11-10-02	RP	
115) HYDRONICS	-36 04	11	(115) 11-10.08) Underfloor de, RP
116) U/F ELECTRICAL	<i>\JQ0</i> 9"	Sch-	
117) U/F MECHANICAL			
118) U/F PLUMBING			•
	1-10-08	RP_	
139) U/F INSULATION		_ مر/	
126) SHEAR WALLS	4-10-0	1 Suf)
NTERIOR AVEXTERIOR	7/2-00	d 1-1	,
127) DIAPHRAGMS	112260	205A	
DROOF □ FLOOR		1-1-	
134) SIDING/SHEATHING	1/12/1		
125) HOLD DOWNS	VISIO	125_1	
132) CLOSE-IN	4 10 10	1 / 1	
122) ROUGH ELECTRICAL	1-10-01) WI	
123) ROUGH MECHANICAL			and the second s
124) ROUGH PLUMBING			
128) ROUGH FRAME PAL	1, -, -, -, 1	1-11-	
160) SMOKE DETECTORS	1-13-10'	14	
139) INSULATION	Jana 1	1-1-	
142) WALLBOARD	2209	JA-	
143) FIREWALLS	<u> </u>		
135) STUCCO/PLASTER		<u> </u>	
☐ LATH ☐ SCRATCH	1100	0-1-	
137) ROOFING	1-13-10	7/	
130) TUB/SHOWER PAN			
162) FIRE DAMPERS/DOORS	-		
164) SUSPENDED CEILING		<u> </u>	
ROUGH ELEC. ROUGH MI	-UH.	11-	
165) EXITING - RAMPS/STAIRS	1-17-10	% /-	
163) HANDRAILS/GUARDRAILS / CORRIDORS/DOORS	۱۱ ۲ ۲ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ ۱ 	11-	
	-	 	650) SUSMP INSPECTION
	-		651) NPDES EROSION COMPLIANCE
144) WATER TANKS	<u> </u>	<u> </u>	652) NPDES EROSION COMPLIANCE
170) TEMPORARY OCCUPANCY			653) NPDES DOCS/SWPPP
171) TEMPORARY OCCUPANCY			FIRE INSPECTION REQUIRED DATE NAME
171) TEMPORARY ELECTRICAL 172) TEMPORARY GAS	+	-	Yes ONo
174) ELECTRIC METER AUTHORIZATION	102408	a.L	759) KNOX BOX
152) PANEL BOARDS/SERVICE	LIZE	67	760) PROPANE TANK HOLD DOWNS
189) SEPTIC ELECTRIC FINAL	-Y=1-X=1(0)-	XV -	770) SPRINKLER FINAL
175) GAS METER AUTHORIZATION		1 1.	771) ABOVEGROUND HYDROSTATIC
153) GAS PRESSURE TEST	1. nns	-//-/-	771) ABOVEGROUND HYDROSTATIC 772) UNDERGROUND HYDROSTATIC
HOUSE YARD	4-444	- <i> </i> -/>//-	772) UNDERGROUND FLUSH
190) MANUF. HOME FOUNDATION	1-9110-1-	101	774) THRUST BLOCKS
191) MANUF. HOME INSTALLATION			775) PIPE WELD
CONTINUITY	-	 	776) HYDRANTS/APPLIANCES
STAIRS/SKIRTS	1		777) PUMP ACCEPTANCE
RIDGE BOLTING		-	778) WATER SUPPLY/TANK
193) MANUF. HOME COND. FINAL		 	779) ALARM SYSTEM
SWIMMING POOLS	 		780) HOOD & DUCT SYSTEM
194) PRE-GUNITE		-	781) ABOVEGROUND TANK/DISPENSER
195) PRE-DECK	 	 	198) FIRE FINAL
196) PRE-PLASTER/FENCE			CLEARANCES:
197) VINYL/FIBERGLASS POOL EXCAVATION			FIRE
102) GRADING FINAL	1	 	HEALTH DEPARTMENT
176) ELECTRICAL FINAL		+ <i>/):</i> /-	ZONING
177) MECHANICAL FINAL	>1-10-M	Lil	SANITATION
178) PLUMBING FINAL	4-15-10-	1-14-1	
199) FINAL	7/25	10	PLAN RETENTION REQUIRED
OCCUPANCY (OK TO OCCUPY)	7 7	 (☐ Yes ☐ No
		-I	

Run Initiation Time: 03/06/08 09:31:32

User Number: 4719

EnergyPro 4.2 by EnergySoft

Run Code: 1204824692

Job Number: Brown Addition

Run Initiation Time: 03/06/08 09:31:32 Run Code: 1204824692

User Number: 4719

EnergyPro 4.2 by EnergySoft

Job Number: Brown Addition

Page: 4 of 8

Certificate Of Compliance: Residential 3/6/2008 **Brown Addition** Date Project Title HVAC SYSTEMS Condition Thermostat Cooling Minimum Heating Minimum Eff Status Eff Type Type Type Location 13.0 SEER Removed Setback Boiler see below No Cooling HVAC System **HVAC DISTRIBUTION** Condition Duct Ducts Duct R-Value Status Tested? Location Heating Cooling Location Radiant Floor **HVAC System** Hydronic Piping Pipe Insul. Pipe Length Diameter Thick. System Name Munchkin MUNCHKIN_ T80M 0.50 WATER HEATING SYSTEMS Tank Insul. Energy Rated Tank Condition Factor Standby R-Value Water Heater Input Cap. or RE Loss (%) Ext. Distribution (Btu/hr) (gal) Status Type System Name 0.0 Munchkin MUNCHKIN T80M Large Gas Hydronic Heating Multi-Family Central Water Heating Details Add 1/2" Hot Water Piping Length (ft) Hot Water Pump Insulation HP Type Control REMARKS COMPLIANCE STATEMENT This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility. The undersigned recognizes that compliance using duct design, duct sealing, verification of refrigerant charge and TXVs, insulation installation quality, and building envelope sealing require installer testing and certification and field verification by an approved HERS rater. Designer or Owner (per Business & Professions Code) **Documentation Author** Name: douglas murray Name Title/Firm: Douglas Murray, Architect Title/Firm: Douglas Murray P.O. Box 1864 Address: p.o.box 1864 Sebastopol, CA 95473 Sebastopol, ca 95473 C 17630 Telephone: (707) 829-5596 Telephone: 707.829/5596 Lic. #: 06 MAK 08 OGMAROR (date) (signature) (date) (signature) **Enforcement Agency** Name: Title/Firm: STATE Address: Telephone (date) (signature) Run Initiation Time: 03/06/08 09:31:32 Run Code: 1204824692 Page: 5 of 8 User Number: 4719 Job Number: Brown Addition EnergyPro 4.2 by EnergySoft

(Part 3 of 4)

CF-1R

Certificate Of	Compliance : Residential	Part 4 of 4)	CF	-1R
Brown Addition		3/6 Date	/2008	•
he local enforcement agenceritten justification and docu	odeling Assumptions y should pay special attention to the Items specified in this checklist. These itel mentation, and special verification to be used with the performance approach. lacy of the justification, and may reject a building or design that otherwise comp fication and documentation submitted.	The local enforceme	nt Plan	Field
he Existing Furnese "Quadr	a Fire QV32ALP" has an AFUS loss than the Table R3 11 CEC Default Vintage Val	109	1 ,,	
The HVAC System "HVAC Sy	stem" is a Hydronic System that uses a Dedicated Boiler for Space Heating (see CF	-1R). <i>e</i>	xista	
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HERS Required Verifications in this section require approved HERS provider using tallation certificate.	ation field testing and/or verification by a certified home energy rater under the super ng CEC approved testing and/or verification methods and must be reported on t	vision of a CEC- ne CF-4R	Plan	Fleid
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Mandatory Measures Summary: Residential (Page 1 of 2) MF-1R

NOTE: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. More stringent compliance requirements from the Certificate of Compliance supercede the items marked with an asterisk (*) below. When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

Check or Initial applicable boxes or check NA if not applicable and included with the permit application documentation.	N/A	DESIGNER	ENFORCE MENT
Building Envelope Measures	<u>.</u>		
§ 150(a): Minimum R-19 in wood ceiling insulation or equivalent U-factor in metal frame celling.		[x]	0
§ 150(b): Loose fill insulation manufacturer's labeled R-Value:	X	[
§ 150(c): Minimum R-13 wall insulation in wood framed walls or equivalent U-factor in metal frame walls (does not apply to exterior mass walls).		(<u>X</u>)	
§ 150(d): Minimum R-13 raised floor insulation in framed floors or equivalent U-factor.		×	
§ 150(e): Installation of F replaces, Decorative Gas Appliances and Gas Logs.			
1. Masonry and factory-built fireplaces have:			
a. closable metal or glass door covering the entire opening of the firebox	X		
b. outside air intake with damper and control, flue damper and control	X		
2. No continuous burning gas pilot lights allowed.	×	1 2	·
\$ 150(f): Air retarding wrap installed to comply with \$151 meets requirements specified in the ACM Residential Manual.		Ϋ́	• •
§ 150(g): Vapor barriers mandatory in Climate Zones 14 and 16 only.	X	C.3	
§ 150(i): Slab edge insulation - water absorption rate for the insulation alone without facings no greater than 0.3%, water vapor permeance rate no greater than 2.0 perm/inch.	X		٠
§ 118: Insulation specified or installed meets insulation installation quality standards. Indicate type and include CF-6R Form:		ĹX,	
§ 116-17: Fenestration Products, Exterior Doors, and Infiltration/Exfiltration Controls.			
Doors and windows between conditioned and unconditioned spaces designed to limit air leakage.		[X]	1-
 Fenestration products (except field fabricated) have label with certified U-Factor, certified Solar Heat Gain Coefficient (SpiGC), and infiltration certification. 		[X]	1.1
3. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed.		[<u>x</u> :	
Space Conditioning, Water Heating and Plumbing System Measures			
\$ 110-13: HVAC equipment, water heaters, showerheads and faucets certified by the Energy Commission.		K	
§ 150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA.		X	
§ 150(i): Setback thermostat on all applicable heating and/or cooling systems.		X	
§ 150(j): Water system pipe and tank insulation and cooling systems line insulation.			
Storage gas water heaters rated with an Energy Factor less than 0.58 must be externally wrapped with insulation having an installed thermal resistance of R-12 or greater.	X	;	
2. Back-up tanks for solar systems, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 internal insulation and indicated on the exterior of the tank showing the R-value.	×	in the state of th	
3. The following piping is insulated according to Table 150-A/B or Equation 150-A Insulation Thickness:			
 First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of recirculating sections of hot water pipes shall be insulated to Table 150B. 	×	1.1	. ,
 Cooling system piping (suction, chilled water, or brine lines), piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A. 	X!		-
4. Steam hydronic heating systems or hot water systems > 15 psi, meet requirements of Table 123-A.	×	•	
5. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.	X		
6. Insulation for chilled water piping and refrigerant suction piping includes a vapor retardant or is enclosed entirely in conditioned space.	×	1	, .
7. Solar water heating systems/collectors are certified by the Solar Rating and Certification Corporation.	X		
EnergyPro 4.2 by EnergySoft User Number: 4719 Job Number: Brown Addition		Pag	ge:7 of 8

Mandatory Measures Summary: Residential (Page 2 of 2) MF-1R

NOTE: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. More stringent compliance requirements from the Certificate of Compliance supercede the items marked with an asterisk (*) below. When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

DESCRIPTION	Instructions: Check or Initial applicable boxes when completed or check N/A if not applicable.	N/A	DESIGNER	MENT
	oning, Water Heating and Plumbing System Measures: (con	tinu	ed)	
605, and Stan R-4.2 or encion	d plenums installed, sealed and insulated to meet the requirements of the CMC Sections 601, 602, 603, 604, dard 6-5; supply-air and return-air ducts and plenums are insulated to a minumum installed level of sed entirely in conditioned space. Openings shall be sealed with mastic, tape or other duct-closure system applicable requirements of UL 181. UL 181A, or UL 181B or aerosol sealant that meets the requirements	×		
or tape shall b 2. Building ca sealed sheet support platfo	mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh be used. vities, support platforms for air handlers, and plenums defined or constructed with materials other than metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and ims may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause the cross-sectional area of the ducts.	\S		
3. Joints and	seams of duct systems and their components shall not be sealed with cloth back rubber adhesive less such tape is used in combination with mastic and draw bands.	X		
4. Exhaust fa	n systems have back draft or automatic dampers.	Ma	X	
Gravity ver dampers.	ilitating systems serving conditioned space have either automatic or readily accessible, manually operating	X		
6. Protection	of Insulation. Insulation shall be protected from damage, including that due to sunlight, moisture, equipment and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water provides shielding from solar radiation that can cause degradation of the material.		×	
	ucts cannot have porous inner cores.	X		
*	ating Systems and Equipment	N		·
 A thermal heater, weath 	efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the efficiency that complies the supplies of the efficiency that the supplies of the efficiency that the supplies of the efficiency that the supplies of the efficiency that efficiency the supplies of the efficiency that efficiency that efficiency the efficiency that efficiency the efficiency that efficiency the efficiency effici	X	ليا	L
•	installed with: 36" of pipe between filter and heater for future solar heating.	×		
	or outdoor pools or outdoor spas.	X		
	m has directional inlets and a circulation pump time switch.	N N N		
C 115: Can fired fan byn	e central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr)	X		
§ 118 (i): Cool Roof ma	terial meets specified criteria	X		
Lighting Mea	sures		X	
§ 150(k)1: HIGH EFFIC	ACY LUMINAIRES OTHER THAN OUTDOOR HID: contain only high efficacy lamps as outlined in Table to not contain a medium screw base socket (E24/E26). Ballasts for lamps 13 Watts or greater are have an output frequency no less than 20 kHz.	لــا	23 -	<u> </u>
§ 150(k)1: HIGH EFFIC	ACY LUMINAIRES - OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, s factory installed HID ballast.	X		
§ 150(k)2: Permanently	installed luminaires in kitchens shall be high efficacy luminaires. Up to 50% of the Wattage, as determined installed luminaires in kitchens may be in luminaires that are not high efficacy luminaires of the second luminaires are controlled by switches separate from those controlling the high efficacy luminaires.	×		. П
§ 150(k)3: Permanently	r installed luminaires in bathrooms, garages, laundry rooms, utility rooms shall be high efficacy luminaires.		X	
§ 150(k)4: Permanently	rolled by an occupant serisor(s) certiled to comply the process of a comply the process of the p		X	
always on o	ption. that are recessed into insulated ceilings are approved for zero clearance insulation cover (IC) and are STM E283 and labeled as air tight (AT) to less than 2.0 CFM at 75 Pascals.		×	
§ 150(k)6; Luminaires	providing outdoor lighting and permanently mounted to a residential building or to other buildings on the providing building or to other buildings on the all be high efficacy luminaires (not including lighting around swimming pools/water features or other Article of Oracle of		×	
ì	parking lots for 8 or more vehicles shall have lighting that complies with Sections 130, 132, and 147, parking garages for 8 or more vehicles shall have lighting that complies with Section 130, 131, and 146,	X		
ł	parking garages to 6 of those variates shall have a specific parking garages for 6 of those variates shall be lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more its shall be high efficacy luminaires OR are controlled by occupant sensor(s) certified to comply with Section	X		
EnergyPro 4.2 by Ener	gySoft User Number: 4719 Job Number: Brown Addition		Pag	e:8 of 8

FILE BLD08-1899

September 22, 2008

re: Change in Engineering of Record for 34285 Kruse Ranch Road, Cazadero, CA, Brown House Addition

To whom it may concern,

I am retaining Peter Schurch, P.E., as Engineer of Record for the Brown House Addition. Bob Ost will no longer be working on this project.

Yours truly,

RECEIVED

DEC N 2 2008

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT COUNTY OF SONOMA



p.1

* FROM*: D. MURRAY ARCHITECT

PHONE NO. : 707 823 2360

Nov. 82 2007 01:25PM F1



DOUGLAS M. MURRAY ARCHITECT AND ASSOCIATES J. CARSON BOWLER, ASSOCIATE ARCHITECT

POST OFFICE BOX 1864, SEBASTOPOL CA 95473 707-829-5596 FAX 707-823-2360

-5745

LETTER OF AUTHORIZATION

02NOV07

RE:

BROWN HOUSE ADDITION / REMODEL

OWNER'S: David & Suzanne Brown

PROJECT

ADDRESS: 34285 Kruse Ranch Road, Cazadero, Ca. 95421

WE DAVID & SUZANNE BROWN DO HEREBY AUTHORIZE DOUGLAS MURRAY ARCHITECT TO SUBMIT THE ABOVE REFERRENCED PROJECT FOR SITE REVIEW & PLAN CHECK

ON OUR BEHALF.

SIGNED / DATED

BUD08-1899

BROWN HOUSE ADDITION

Percentage of Remodel Improvement BLD - 03 いと99 Determination Worksheet

35 los

WLS-029

Purpose: This worksheet is intended to be used with the Permit & Resource Management Department (PRMD) Policy 9-2-29, Percentage of Remodel Improvement Determination. Please refer to the calculation method illustration in the policy. This policy is required to determine if a proposed remodel and/or addition complies with PRMD Policy 9-2-12, Guidelines for Remodeling and Additions with Respect to Septic Systems.

•	Ca	Iculate the percentage of additions using square footage, if applicable Square footage of addition Divide by square footage of existing structure
		Equals total percent of addition
		to other work is being done, stop here. If other work is being done, proceed to section II, using Linear Footage of Altered Walls Method.
i.		Collate existing linear footage of all walls in habitable areas. Walls between floors, or between floors and ceilings or roofs shall be considered as separate walls. 1. First Floor
	В.	Perimeter foundations of all types shall be considered as walls. (Cripple walls are considered part of the foundation.) 1. Foundation
	_	Total linear footage of existing foundation
	C.	Roof lines, including gable ends shall be considered as a wall above the wall to which they connect. (Dormers and overhangs are not part of the calculation.) Measure at the wall. 1. Roof
		Total linear footage of existing roof
	D.	Add totals of A, B & C above.
		Total linear footage of structure
Ш.		Collate the linear footage of all removed, added, reconstructed and altered walls. Walls 1. First Floor
		Total linear footage of walls

Sonoma County Permit and Resource Management Department

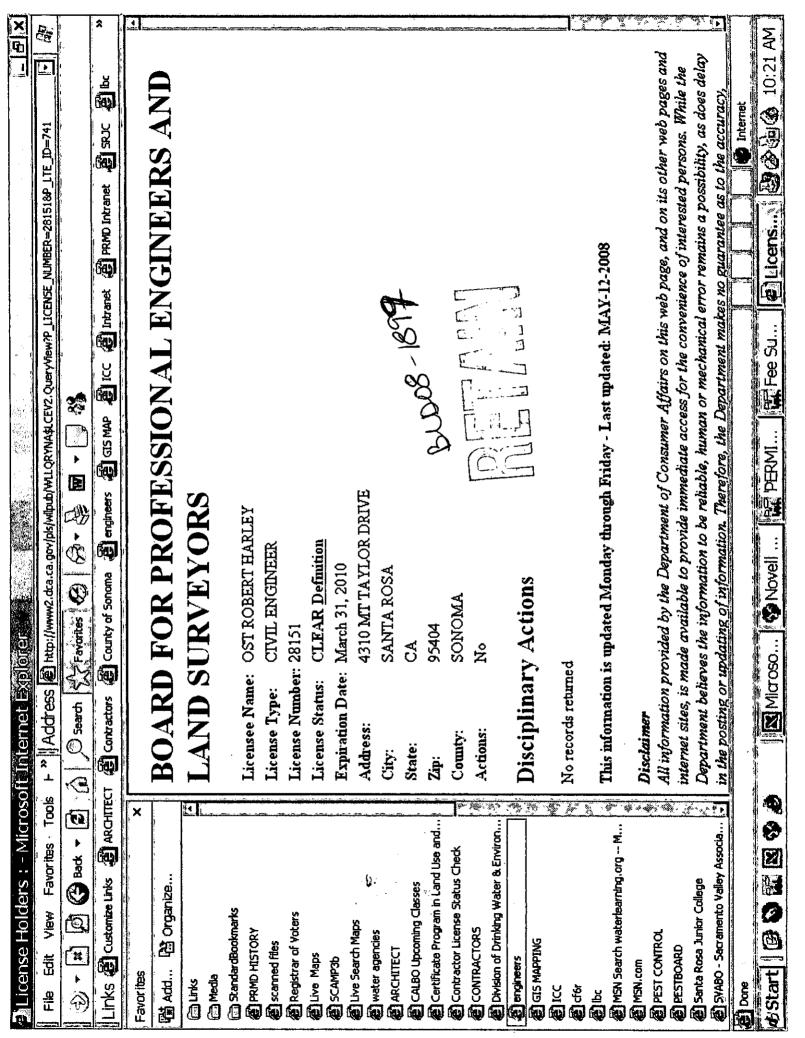
2550 Ventura Avenue Santa Rosa, CA 95403-2829 (707) 565-1900 Fax (707) 565-1399

CMuller S:\Handouts\WLS\WLS-029 Percentage of Remodel improvement Determination Worksheet.wpd 06/29/07

B-67773

Page 2 of Percentage of Remodel Improvement Determination Worksheet

	B.	Foundation 1. Demolition/removal of foundation
		Total linear footage of foundation
	С.	Roof 1. Demolition/removal of roof framing
		Total linear footage of altered roof
	D.	Add totals of A, B & C above.
		Total altered linear footage of structure
IV.	. Ca	Iculate the percentage of remodel improvement, if applicable Total altered linear footage of structure
V.		improvement. Percentage of Remodel Improvement (from IV)
VI	(ba	Alculate the percentage of remodel improvement of all building permits in the past 24 months ased on the date of "issuance" of the initial building permit), if applicable. Ercentage Improvement: Bld
VI	II.	Calculate the proposed total percentage of improvement. Total percent of remodel improvement (V)



ins	spector: /a/ fellison	Date: 11-28-07			
The	e proposed construction appears to be located in:				
ood azard:	[] FIRM Flood Zone (ASFH) BFE = ft. NGVD.	[] Portions of property in flood zone but project site			
izaiu.	Lowest finish floor at 12 above BFE =ft. NGVD.	not in flood zone.			
	[] Design for moving water is recommended	[] Building is in FIRM Floodway			
	Section is Ft/sec	[] Main building on site is Post-FIRM			
	Section is Ft/sec	[] Sensitive drainage area, review by drainage section recommended.			
	[] Area subject to flooding (not on adopted FIRM).	[] Appears to be a "substantial improvement" (40%), therefore flood regulations apply. []			
	[] Project is on flood zone major damage list.	[] Located inside the Laguna de Santa Rosa below			
	[] Flood Prone Urban Area defined by Ordinance #4906.	elevation of 75 ft (Ord.#4906).			
o- hnical:	[] Area of suspected slides, slumps, earth flow, or soil creep. (a.)	Area without recommended setback from stream (Drainage Division recommendations).			
	[] Area of previous fill placement. (g.)	[] Area of high moisture content in soil. (f.)			
	[] Area of suspected expansive soil. (c.)	[] Area subject to high erosion (water or wind).			
	[] Area without sufficient slope setback as set forth in UBC Section 1806. (b.)	 Area of soft soil due to past deep ripping or cultivation below minimum foundation depth. (h.) 			
	[] Area subject to possible liquefaction. (e.)	[] Area within 1000 feet of a solid waste disposal site.			
	[] Area of suspected soft, compressible, or organic soil with low bearing capacity.	·			
	Soils Investigation:	Required [] Included [] Available []			
ologic:	[] Located in the Alquist-Priolo Special Studies Zone.	[] Geologic report required (see CGS Publication 42),			
neral:	[] Building addition will affect the required light and ventilation in an existing room.	[] Indications of existing substandard conditions that are not addressed by the proposed construction.			
	[] Existing electric meter must be replaced.	[] Indications of past work done without a permit.			
	[] Existing gas meter must be replaced.	 Grading permit required for road, driveway, or site preparation. 			
	Slope is Flat to 5%	Site is likely to be acceptable for conventional construction methods.			
nd:	Exposure "B" Exposure "O" Exposure "D"	N.S.C. Air Pollution Control District [] Yes [] No			
	James .				
	10 0 A Classical	on land to be supported			
3mg	le story foundation - Teo	or reached to the sample of			
nei	le story foundation - Flo anderfloor girder & add ting foundation on South foundation, &	tion I floor to be on			
متا	time boundation on South	side only. North side to g			
w	boundation, of				
•					

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Grading Permit Questionnaire BPC-017

Purpose: This form is used to determine if your project requires a grading permit in addition to a building permit. Grading is defined in Appendix Chapter 33 of the 2001 California Building Code (CBC) as "any excavating or filling or combination thereof." Grading can take the form of excavating and/or filling for foundations of structures, driveway construction and modification of topography. No person shall commence any grading without first having obtained a grading permit unless exempt as determined by the Permit and Resource Management Department (PRMD).

To determine if your project requires a grading permit, please answer the following questions. If you are unable to answer any questions, you should contact your design professional for assistance and/or consult with a PRMD plans examiner. Incorrect answers may cause delays processing and/or issuing the permit(s) for your project.

□ Yes 🛛 No 🗅 Unknown	1.	Does the project include a fill of 6 inches or more within the Flood Prone Urban Area? See map on reverse side of this form for the location of the Flood Prone Urban Area.
□ Yes 🕰 No 🗅 Unknown	2.	Does the project include a fill 1 foot or more in depth and placed on natural terrain with a slope steeper than 1 unit vertical in 5 units horizontal?
☐ Yes 🍇 No ☐ Unknown	3.	Does the project include a fill 3 feet or more in depth?
☐ Yes 🍂 No ☐ Unknown	4.	Does the project include an excavation that (1) is 2 feet or more in depth or (2) creates a cut slope greater than 5 feet in height and steeper than 1 unit vertical in 1 ½ units horizontal that is not an excavation below finished grade for a basement, footing, retaining wall or other structure authorized by a valid building permit?
☐ Yes No ☐ Unknown	5.	Does the project include a fill that is intended to support structures?
☐ Yes (A)(No ☐ Unknown	6.	Does the project include a fill that exceeds 50 cubic yards on any one lot?
☐ Yes 🕱 No 🗅 Unknown	7.	Does the project include the construction of a driveway that exceeds 122 feet in length?
□ Yes 🕱 No 🗅 Unknown	8.	Does the project include an excavation or fill that alters or obstructs a drainage course?

Acknowledgment:

I, as the applicant, understand that a "Yes" answer to **any** of the above questions means that a grading permit is required and shall be obtained before issuance of a building permit for the site. If any answers are "Unknown" to me, I should contact my design professional immediately to determine if a grading permit is required.

Applicant Signature

Applicant Reinted Name

Applicant Reinted Name

Assessor's Parcel Number(s)

Date

34285 Kruse Runch Rd, Cazadore

Property Address
RJ 1008 1999

Building Permit (BLD) Number

									<u>.</u>
INST	TALLATION	CERTIF	CATE						F-6R
) 4	ddress k	CRUSE	PANATA	o iA	2ADER	A	ermit Number	819	
inform	stallation certification provided coment (upon requ	ate is required on this form is	d to be posted a s required) Afte	t the build r completi	ing site or ma on of final in	de available for spection, a copy	all appropriat must be prov	e inspections ded to the bu	. (The ilding
WAT	ER HEATIN	G SYSTEN Distribution			Rated Input				External
Heater Type	CEC Certified Mfr Name & Model Number	Type (Std, Point- of-Use, etc)	If Recirculation, Control Type	# of Identical Systems	(kW or Buy/br) ¹	Tank Volume (gallons)	Efficiency (EF, RE) ²	Standby Loss (%) ²	Insulation R-value ²
3011.20	T. BO. M	HYDROIL			6000		192	0.0%	
							<u> </u>	1	
Rec Effi 2. R-1 Kit If i fix Fa	nters, list Energy covery (RE), The iciency and Rate 2 external insula- tichen Piping: indicated on the C tures is insulated ucets & Shower faucets and showar	ermal Efficience Input. ation is mand CF-1R, all ho Heads: werheads inst	ncy, Standby Lo atory for storag t water piping ≥	e water he 3/4 inche	aters with an s in diameter	energy factor of that runs from t dission, pursuant	fless than 0.58 the hot water s	ource to the k	kitchen
✓	All hot water pip								
out tha	Central hot wate doors; (2) zero d t meets the requi	r systems ser listribution pi rements of So	ving six or fewer ping undergrou ection 150(j)	er dwelling nd; (3) no	g units which recirculation	have (1) less the pump; and (4) i	nsulation on d	istribution pi	ping
equ	I, the unde ivalent to or mor h the <i>Energy Eff</i> uirements for ma	re efficient tha Geieney Stand	an that specified lards for resider	in the cert ntial buildi	ngs; and 3) e	quipment that r	neets or excee	ds the approp	ianice
lns	alling Subcontra	nctor (Co. Na ne) OR Own	me) OR Genera	1 6	IVEH P	ROPERTIE	s con	stevono	W

Date:

Signature:

INSTALLATION CERTIFICATE

(Page 2 of 12) CF-6R

Site Address
34245 KENSF RANCHED CAZADERO

Permit Number

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(a).

FENESTRATION/GLAZING:

1tem 1. 2. 3. 4.	Manufacturer/Brand Name (GROUP LIKE RODUCTS) MILGARD FIGUERGY II	Product U-factor¹ (≤ CF-1R value)² (≤ C	Product SHGC ¹ (SCF-1R value) ² (SS 4) (SS N)FRC (SS V	Total Quantity of Like Product (Optional)	Area Square Feet	Exterior Shading Device or Overhang SCREN.16 SCREN.16 SCREN.16	FROWT (5) 2nd	TFLAR FLUIR FLUIR
6.		1.				·		
7.				 [:	
8.				 				
9.				 				
10.				 ļ 	<u> </u>			
11.				 ļ <u> </u>	<u> </u>			• •
12.				 				
13.				 <u> </u>				
14.				 				
15.				 	L			l

¹⁾ Use values from a fenestration product's NFRC label. For fenestration products without an NFRC label, use the default values from Section 1.16 of the Energy Efficiency Standards.

I, the undersigned, verify that the fenestration/glazing listed above my signature: 1) is the actual fenestration product installed; 2) is equivalent to or has a lower U-factor and lower SHGC than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the *Energy Efficiency Standards* for residential buildings; and 3) the product meets or exceeds the appropriate requirements for manufactured devices (from Part 6), where applicable.

Item #s (if applicable)	Signature (Bypt	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor LIVEN PROPERTIES CON SEVOTION
Item #s (if applicable)	Signature	Date	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor
Item #s (if applicable)	Signature	Date	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor

Copies to: Building Department, HERS Rater (if applicable) Building Owner at Occupancy

²⁾ Installed U-factor must be less than or equal to values from CF-1R. Installed SHGC must be less than or equal to values from CF-1R, or a shading device (exterior or overhang) is installed as specified on the CF-1R. Alternatively, installed weighted average U-factors for the total fenestration area are less than or equal to values from CF-1R. If using default table SHGC values from §116 identify whether tinted or not.

THE PROPERTY OF THE CAPTER OF		(Page 3 of 12)	CF-6R
INSTALLATION CERTIFICATE	. /= 4 0 >=>	Permit Number	-
Sine Address UNSERAN CH PD.	CA 14060	1001099	

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(a).

HVACSYSTEMS:

Heating Equipment

Equip Type (pkg. heat pump) BOILER	CBC Certified Mfr. Name and Model Number MUNICIPALITY T. 80. m	# of Identical Systems	Efficiency (AFUE, etc.) (≥CF-1R value)	Duct Location (attic, atc.)	Duct of Piping R-value	Ficating Lond (Brothe)	Henting Capacity (Humber)
-------------------------------------	--	------------------------------	---	-----------------------------------	------------------------------	------------------------------	---------------------------

Cooling Equipment

Equip Type (pkg. heat pump)	CEC Certified Mfr. Name and Model Number	# of identical Systems	Efficiency (SEBR or ÉBR) ¹ (≥CF-1R value)	Dust Location (attic, etc.)	Duct R-value	Cooling Load (Bin/hr)	Cooling Capacity (Btu/hr)
-----------------------------	--	------------------------------	--	-----------------------------	-----------------	-----------------------------	---------------------------------

≥ symbol reads greater than or equal to what is indicated on the CF-1R value.
 Include both SEER and EER if compliance credit for high EER air conditioner is claimed.

If the undersigned, verify that equipment listed above is: 1) is the actual equipment installed, 2) equivalent to or more efficient than that specified in the certificate of compliance (Form CF-1R) submitted for compliance with the Energy Efficiency Standards for residential buildings, and 3) equipment that meets or exceeds the appropriate requirements for manufactured devices (from the Appliance Efficiency Regulations or Part 6), where applicable.

Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner	LINGA	PROPERTIES	con spection
	•	W	OCH III / NICY

INSTALLATION CERTIFICATE			4 of 12)	CF-6R	
Site Address SYZYS KRUSE RAHCHEN	ATAPITAN I	Cermit Numb	819		
INSTALLER COMPLIANCE ST	ATEMENT FOR DUC	T LEA	KAGE		
INSTALLER COMPLIANCE STATEMENT The building was: ✓ □ Tested at Final ✓ □ Te	sted at Rough-in				
 INSTALLER VISUAL INSPECTION AT FINAL C □ Remove at least one supply and one return register finishing wall are properly sealed. □ If the house rough-in duct leakage test was conduct between the air handler and the supply and return p □ Inspect all joints to ensure that no cloth backed rubit 	and verify that the spaces between ted without an air handler installed, denums to verify that the connection	inspect the c	onnection p	oints	
✓ □ DUCT LEAKAGE REDUCTION Procedures for field verification and diagnostic testing	g of air distribution systems are av	ailable in R	4CM, Appe	ndix RC4.3	
NEW CONSTRUCTION: Duct Pressurization Test Results (CFM @ 25 Pa)			Measured Values		
1 Enter Tested Leakage Flow in CFM:				发动性 深态	
Fan Flow: Calculated (Nominal: ✓ ☐ Cooling ✓ 2 If Fan Flow is Calculated as 400 cfm/ton x number Capacity in Thousands of Btu/hr, enter total calculated as 400 cfm/ton x number Capacity in Thousands of Btu/hr, enter total calculated as 400 cfm/ton x number Capacity in Thousands of Btu/hr, enter total calculated as 400 cfm/ton x number Capacity in Thousands of Btu/hr, enter total calculated (Nominal: ✓ ☐ Cooling ✓	er of tons or as 21.7 cfm/(kBtu/hr) x	Heating here:		1	✓
3 Pass if Leakage Percentage≤ 6% for Final or ≤ 4% [100 x [(Line # 1) / (Line # 2)]]	at Rough-in:			□ Pass □	Fail
ALTERATIONS: Duct System and/or HVAC Equip		<u></u>		The state of the state of	
4 Enter Tested Leakage Flow in CFM from Pre-Test System Alteration and/or Equipment Change-Out	·				
Enter Tested Leakage Flow in CFM from Final T System for Duct System Alteration and/or Equipm	ent Change-Out.	Duct			
11	- (Only if Applicable)		<u></u>	√ .	
7 Enter Tested Leakage Flow in CFM to Outside (O		ıh in	_	<u> </u>	
8 Entire New Duct System - Pass if Leakage Percen [100 x [(Line # 5) / Line # 2)]]				□ Pass □ F	ail:
TEST OR VERIFICATION STANDARDS: For Alto Out Use one of the following four Test or Verificatio	red Duct System and/or AVAC E n Standards for compliance:	quipment C	nange-	. ✓ ✓	
9 Pass if Leakage Percentage ≤ 15% [100 x []]		□ Pass □	Fa
Pass if Leakage to Outside Percentage ≤ 10% [100]				□ Pass □	Fai
Pass if Leakage Reduction Percentage ≥ 60% [100]	x [(Line # 6) /(Li	ne # 4)]]		🗆 Pass 🗆	Fai
and Verification by Smoke Test and Visual Inspecting Pass if Sealing of all Accessible Leaks and Verification	ation by Smoke Test and Visual Ins	pection &	Paga ana Bah	□ Pass □	Fai
12) ass it bearing of an inspectation bearing and	Pass if One of Lines # 9 through #	/ 12 pass 🎉	明心影響。	□ Pass □	Fai
✓ □1, the undersigned, verify that the above diagnostic compliance credit. I, the undersigned, also certify that the Fans comply with Mandatory requirements specified in	he newly installed or retrofit Air-Dir	stribution Sy	stem Ducts,	. Plenums an	d
Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner					: <i>t</i>
Signature:	Date:				:

Site Address LAVA		Permit D	Page 5 of 12 jumber) CF-6F
✓ ☐ THERMOSTATIC EXPANSION Procedures for field verification of thermosto	VALVE (TXV)	M, Appen	dix RI.	
consist of visu	ided for inspection. The procedure shall al verification that the TXV is installed on installation of the specific equipment ed.			
	Yes is a pass	Pass	Fail	·
✓ ☐ REFRIGERANT CHARGE MEAS Verification for Required Refrigerant Charge Thermostatic Expansion Valves	SUREMENT and Adequate Airflow for Split System Sp	ace Cooli	ng Systems wi	thout [],
Outdoor Unit Serial #				•
- Location				
Outdoor Unit Make				
Outdoor Unit Model				• •
Cooling Capacity	Btu/hr			
Date of Verification				
Date of Refrigerant Gauge Calibration	(must be checked mor			
Date of Thermocouple Calibration	(must be checked mor	ithly)		
Standard Charge Measurement Procedures for Determining Refrigerant Charge Note: The system should be installed and cha procedure. Measured Temperatures	using the Standard Method are available it	1 KACM	Appenaix KD2.	arting this
Supply (evaporator leaving) air dry-bulb te	mperature (Tsupply, db)		°F .	
Return (evaporator entering) air dry-bulb to			°F	
Return (evaporator entering) air wet-bulb to			°F	*****
Evaporator saturation temperature (Tevapo			°F .	
Suction line temperature (Tsuction, db)			°F .	. ,
Condenser (entering) air dry-bulb temperat	ure (Teondenser, db)		"F	· · · · ·
		***	 .	
Superheat Charge Method Calculations for Re Actual Superheat = Tsuction, db – Tevapo			°F	
Target Superheat (from Table RD-2)	rater, our		of F	
Actual Superheat – Target Superheat (Syst	em passes if between -5 and ±5°F)		°F	
Temperature Split Method Calculations for A Split Method Calculation is not necessary if	Adequate Airflow			·
Actual Temperature Split = T return, db Ts	supply, db		'F	
Target Temperature Split (from Table RD3			'F	•
Actual Temperature Split Target Temperature		'	'F	

INSTALLATION CERTIFICATE			(Page 6 of 12) Cr-ok
Site Address KRUSF ETNICHED	ALADERU	Perr	nit Number 890	7
Standard Charge Measurement Summary: System shall pass both refrigerant charge and measurements. If corrective actions were taken	adequate airflow calcula	ition criteria fr emeasured an	om the same d recalculated.	•
✓ ☐ Yes ☐ No System Passes				
Alternate Charge Measurement Procedure Note: The system should be installed and charged in a verification shall be documented on CF-6R before star shall use the Standard Charge Measure Procedure: Procedures for Determining Refrigerant Charge using	ccordance with the manu- ting this procedure. If or	facturer's spec itdoor air dry-	bulb is 55°F or ab	ove, installer
Weigh-In Charging Method for Refrigerant Charge Actual liquid line length:			ft	
Manufacturer's Standard liquid line length:			ft	
Difference (Actual - Standard):			ft	
Manufacturer's correction (ounces per foot)	x difference in length = (+ = add) (- = remove)			
Measured Airflow Method for Adequate Airflow Verifical Calculated Airflow: Cooling Capacity (Btu/hr) Measured Airflow is CFM (Measured a	_ X 0.033 (cfm/Btu-hr) =	=	CFM	
Alternate Charge Measurement Summary: System shall pass both refrigerant charge and adec corrective actions were taken, both criteria must b Y D Yes D No System Passes Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner	quate airflow calculation (e remeasured and recalcu	criteria from tl		ients. If
Signature:	Date:			

INST	ALLAT	ION CER	TIFICATE	E .				(Page 7	of 12)	CF-6R
Site A	ddress 1295	- KRUS	SRAN	CHRID	CA	HOTEU	Permi	it Number	899	
MIS	CELL	ANEOU	S CRED	ITS	***	·	·	•	• •	
√ □ Proced	ures for field	d verification c	nd diagnostic t	esting for thi	s group co	ompliance credit	ND R-VALŪE s are available in F CONDITION	RACM Ap	ppendix RC C E	, RE & RH.
	COMPL	IANCE CRI	DIT							· · · · · · · · · · · · · · · · · · ·
1	□Yes	□No Less	than 12 lineal f	eet of supply Ye	duct outs	ide of conditions compliance cre	dit is a pass	✓ □ Pa	ass v	′ □ Fail
 √ □	GIIDDI V	DUCTS LC	CATED IN				LIANCE CRE	DIT		
<u> </u>	SULLUL									
√	□ Yes	□ No Di	cts are located			volume of build		7 7 5	····	
						compliance cre		✓ □ P:	ass ✓	☐ Fail
Duct S	iystem Des 1. Sun	agn vermeat Div duct sur	ion is require face area red	ea for a cor action	приалсе	credit for the	onowing.			
	2. Bur	ied supply d	ucts on the co	eiling			-			
	3. Dee	ply buried s	ipply ducts							* * •
✓ □	DUCT SY	YSTEM DES	IGN VERIF	ICATION						:
✓	□ Yes	□ No. A	lequate airflo	w verified			'7 - 1' - D	4 C) 4 A		C C-ation
 ✓	☐ Yes		e duct system 24,2	design plat	n meets ti	ne requirement	s specified in R	АСМ, Ар	pendix Ki	e, Section,
V	□ Yes	□ No Th	e duct system	design plat	n exists o	n building plar	ıs			
1/	□Yes	D No Di	ct sizes, duct	system layo	out and lo	cations of sup	ply & return reg	isters mat	ch the du	ct system ·
Y	□ 1 €2	de	sign plan			Ver to	all is a pass	✓ □ Pa	99 7	✓ □ Fail
	GUDDY 3/	DUCTE CII	DEACE ADE	- DEDUC	TIONC	OMPLIANCE				
<u> </u>	SUPPLI	DUCISSO	TACE ARE	A REDUC	11011 0	OIII BIAITO				
				~~.			R-4.2	R-6.0	-	R-8.0
١	Crawl	I		Deeply	Othor	Duct Diameter	Surface Area	Surfa Area	<u> </u>	Surface Area
Attic			t Covered	Covered	Other	Diameter	Aica	71701	-	71100
				 						
		0	. 0							
	0	. 🛭								
			0							
ļ,						ch R-Value =	<u> </u>			
$\overline{}$	☐ Yes	□ No ato	hes Performa	nce's CF-1F	₹?			□ Pa		□ Fail
					·		to all is a pass	⊔ га	88	U Faii
			THE CEILI			CREDIT		 		
	□ Yes		ried Ducts on							T 7
	□ Yes	□ No Vo	rified High In	sulation Ins	tallation	Quality			√ Dees	√ Foil
						and this compli	ance credit is a	pass	□ Pass	□ Fail
	EEPLY I	BURIED DU	CTS COMPI	LIANCE C	REDIT			<u></u>		
V	□ Yes	□ No De	eply Buried L	Ducts						
	□Yes		rified High In						<u> </u>	<u> </u>
Yes	to duct syst	lem design, s	ipply duct sur	rface area re	duction a	and this compli	ance credit is a	pass	□Pass	□ Fail

INS	STA	LL	ATIC	ON C	ER	PIFICATE			8 of 12) CF-6R		
Site	Add	ress 12	છેડ	, k	<u> </u>	USERANCHRO CARADERU	Permit 1	Numb	899		
			-								
				DRA							
Proc	cedur	es fo	r mea	suring	the o	nir handler watt draw are available in RACM, Appendix	RE3.2.		•		
V	Meti	od I	for Fa	ın Wa	tt Dr	aw Measurement			44°		
<u> </u>			RE3			able Watt Meter Measurement					
		•	RE3.			ty Revenue Meter Measurement					
-			100		,	, '					
				 !		Measured Fan Watt Draw			Watts		
			***	Me	uenre	d Fan Flow (enter total cfm from airflow verification)			1 cfm		
-			·	1710	anuit	Enter results of Watts/cfm			Watts/cfm		
<u> </u>				γ		Differ results of wateroun	√		1 " " " " " " " " " " " " " " " " " " "		
<u></u>									1 · · ·		
/	□У	'ec	<u> </u>	No !		sured fan watt/cfm draw is equal to or lower than the					
L		0.5			fan v	watt/cfm draw documented in CF-1R		<u> </u>	_		
						Yes is a pass	Pass	Fail	·		
						The state of the s					
✓ [J AI)EQ	UATI	BAIR	FLO	W VERIFICATION					
Pro						airflow are available in RACM, Appendix RE3.1.			.•		
						surement					
			RE4.			mostic Fan Flow Using Flow Capture Hood			•		
					Dia	gnostic Fan Flow Using Plenum Pressure Matching			•		
	<u>-</u> -		RE4.		Diag	mostic Pan Flow Using Flenum Flessare Matching			•		
			RE4.	1.3		nostic Fan Flow Using Flow Grid Measurement					
] Ye	S	1 🔲	No.	Duc	t design exists on plans			7		
						Measured Airflow:			Total cfm		
						Rated Tons cfm/ton			cfm/ton		
									-		
4/ 1	□ Ye	-	□No	, -	Measured airflow is greater than the criteria in Table RE-2						
	<u> </u>	58	<u></u>	' -	14100	garde unitow is greater than the contains		$\overline{\Box}$	1 .		
							ַ ע				
						Yes is a pass	Pass	Fail	J		
				-							
√□	Эм.	AXII	MUM	COO	LIN	G CAPACITY			•		
Proc	edur	es foi	r detei	rminin	o ma	ximum cooling load capacity are available in RACM, Ap	pendix R	F3			
			- 1			Adequate airflow verified (see adequate airflow credit)	•				
1	✓	יי	Yes	<u>п, п</u>	40				•		
2	1		Yes		lo ol	Refrigerant charge or TXV					
+					lo.	Duct leakage reduction credit verified					
3	✓		Yes	7	NU				•		
, [1		Yes	ПN	Jo.	Cooling capacities of installed systems are ≤ to maximu	ım coolin	g	•		
4	,	<u></u>	1 62	<u> </u>	10	capacity indicated on the Performance's CF-1R and RI					
						If the cooling capacities of installed systems are > than	maximur	n	√ √		
5	✓		Yes		No.	cooling capacity in the CF-1R, then the electrical input	for the	1			
-						installed systems must be ≤ to electrical input in the CF	-1R.				
						Yes to 1, 2, and 3; and Yes to either 4	or 5 is a	pass	Pass Fail		
1	Į					, 50 60 71 23 6116 23 6116 1 62 75 571161 1		است			
7					6 N I N	WWW CALIFIC					
<u>ا ا</u>						ITIONER					
Pr <u>oc</u>	edur	es foi	r verifi			available in RACM, Appendix RI.	 				
1	✓		Yes	\square V	VO.	EER values of installed systems match the CF-1R			···		
2	1		Yes	٦N	lo .	For split system, indoor coil is matched to outdoor coil			✓ ✓		
$\frac{\overline{3}}{3}$	V	<u> </u>		□ No		Time Delay Relay Verified (If Required)					
		ا لبا	1 69	١٧٥ ت	<u> </u>	Yes to 1 and 2; and 3 (If Required	l) ic a nac	e D	Pass Fail		
- 1	į		1			y es to 1 and 2; and 5 (1) Required	ij is a pas	ο P	400 1 411		
In	stall	ne S	uhcon	tractor	r (Co	. Name) OR General					
				√anne)							
L			, 55. 1		`						
Si	ignat	ure:				Date:					
<u> </u>						MEAST TIPLE DATED (IF A DRI ICA RI E) RUIL DINC OV	VALEDAT	000	UDANCV		

INSTALLATION CERTIFICATE	(Page 9 of 12) CF-6R
Site Address KRUSE RAILCHRD. CAZADERO	Permit Number O8 · 1899

An installation certificate is required to be posted at the building site or made available for all appropriate inspections. (The information provided on this form is required) After completion of final inspection, a copy must be provided to the building department (upon request) and the building owner at occupancy, per Section 10-103(a).

BUILI	ING E	NVEL	OPE LEAKAGE DIA	GNOSTICS		
✓ [] R	NVELOI	PE SEA	LING INFILTRATION R	EDUCTION	-	
Proced	ures for f	ield verij	fication and diagnostic testi	ng of envelope leakage are available in RACM, Appe	endix RC.	
<u> </u>				nostic Testing Results		
	/	✓	Building Envelo	ppe Leakage (CFM @ 50 Pa) as measured by Rater:		
1.	Yes	□ °2	Measured envelope leakag	ge less than or equal to the required level from		
2.	☐ Yes	□ No	Is Mechanical Ventilation	shown as required on the CF-1R?		
2a.	Yes	□ No	If Mechanical Ventilation been installed?	is required on the CF-1R ('Yes' in line 2), has it		
2b.	Yes	No	Check this box 'yes' if me and ventilation fan watts a	echanical ventilation is required ('Yes' in line 2) are no greater than shown on CF-1R. Measured Watts =		
3.	☐ Yes	No	greater than the CFM @ 5	easured building infiltration (CFM @ 50 Pa) is 0 values shown for an SLA of 1.5 on CF-1R no, mechanical ventilation is required.)		
4.	☐ Yes	□ ×°	less than the CFM @ 50	values shown for an SLA of 1.5 on CF-1R, installed and house pressure is greater than minus fans operating.	·	
			Pass if: a. Yes in line 1 and line 3,		✓	✓
1			b. Yes in line 1 and line2,			
			c. Yes in line I and Yes in Otherwise fail.	ine 4.	Pass	Fail-
reduction results ar	n below do nd the wor nder shall	efault as: rk l perfe provide	sumptions as used for compormed associated with the te the HERS provider a copy of	ope leakage meets the requirements claimed for build liance on the CF-1R. This is to certify that the above est(s) is in conformance with the requirements for conf of the CF-6R signed by the builder employees or sub the requirements for compliance credit.)	e diagnost mpliance (ic test credit.
Test F	erformed					
Install Contr	ling Subcactor (Co.	ontracto Name)	r (Co. Name) OR General OR Owner			,
Signa	lure:			Date:		

TAICT.	тт	ATION	CERTI	FICATE
	AIJ	AIRUN	C.P.K.I.F.I	THUALD.

CF-6R (Page 10 of 12)

Site Address

412 BS KRUSE RANCH RD CAZADER

Permit Number

Insulation Installation Quality Certificate

Description of Insulation, (CF-6R, formerly IC-1) signed by the installer stating: insulation manufacturer's name, material identification, installed R-values, and for loose-fill insulation: minimum weight per square foot and minimum inches

✓ ☐ Installation meets all applicable requirements as specified in the High Quality Insulation Installation Procedures (ACM, Appendix RH)

√ FI	JOOR		
¥			All floor joist cavity insulation installed to uniformly fit the cavity side-to-side and end-to-end
Yes	No	NA	All floor Joist Cavity institution histarica to difficulty in the buying state to side and one to end
¥			Insulation in contact with the subfloor or rim joists insulated
Yes	No	NΑ	Indutation in Contract (11th Inc. 124)
Yes	; 🗖		Insulation properly supported to avoid gaps, voids, and compression
	No	NA	
	ALLS		THE RESIDENCE OF THE PROPERTY
*	No	NA.	Wall stud cavities caulked or foamed to provide an air tight envelope
Yes			
Yes	No	NA.	Wall stud cavity insulation uniformly fills the cavity side-to-side, top-to-bottom, and front-to-back
1 5 3			
Yes	No	NA	No gaps
5			No voids over 3/4" deep or more than 10% of the batt surface area.
Yes	No	NA	
Ş			Hard to access wall stud cavities such as; corner channels, wall intersections, and behind
Yes	No	NA	tub/shower enclosures insulated to proper R-Value
Ż			Small spaces filled
Yes	No_	NA	
134	D Vo	D NA	Rim-joists insulated
Yes	140	S	Loose fill wall insulation meets or exceeds manufacturer's minimum weight-per-square-foot
Yes	No	NA	requirement
			G PREPARATION
P			
Yes	No	NA	All draft stops in place to form a continuous ceiling and wall air barrier
47			All drops covered with hard covers
Yes	No	NA	All diops covered with hard covers
Å	. 🗆		All draft stops and hard covers caulked or foamed to provide an air tight envelope
Yes	No	NA_	All recessed light fixtures IC and air tight (AT) rated and sealed with a gasket or caulk between the
4	No I	□ & ≥A	housing and the ceiling
Yes	NO	_ NA	
Yes	70 Z	NА	Floor cavities on multiple-story buildings have air tight draft stops to all adjoining attics
		1	
Yes	No	NA	Eave vents prepared for blown insulation - maintain net free-ventilation area
		Ŋ.	11. in all and an annual for blown insulation
Yes	No	NA	Knee walls insulated or prepared for blown insulation
		NA NA	Area under equipment platforms and cat-walks insulated or accessible for blown insulation
Yes	No		Area unuel equipment plantems and out-mants insurance of accession to otomic members
		Z	Attic rulers installed
Yes	No	NA	[*

INSTALLATION CERTIFICATE	(Page 11 of 12) CF-6R
SIZATESUS KONSERANUTED AZADETU CA	Permit Number

ROOF/CEILING BATTS						
又			No unn			
Yes	No	NA	No gaps			
54			No voids over % in. deep or more than 10% of the batt surface area.			
Yes	No	NA	110 1010 110 111 110 1111 1111			
Yes	D	□ NA	Insulation in contact with the air-barrier			
T ES		INA.				
Yes	No	ΝA	Recessed light fixtures covered			
			Net free-ventilation area maintained at eave vents			
Y es	No	NA	The free-vention area maintained at east verile			
✓ R	OOF/	CEILI	NG LOOSE-FILL			
		Z				
Yes	No	NA	Insulation uniformly covers the entire ceiling (or roof) area from the outside of all exterior walls.			
		Z				
Yes	No	NA	Baffles installed at eaves vents or soffit vents - maintain net free-ventilation area of eave vent			
		7	A 44! !mouletod			
Yes	No	ΝĀ	Attic access insulated			
		NA NA	Recessed light fixtures covered			
Yes	No		Recessed fight fixtures covered			
		Z. J Z	Insulation at proper depth - insulation rulers visible and indicating proper depth and R-value			
Yes	Νo					
		NA PA	Loose-fill insulation meets or exceeds manufacturer's minimum weight and thickness requirements			
Yes	No	NA	for the target R-value. Target R-value			
			weight for the target K-value (pounds-per-square-joot). Manufacturer's			
			required settled thickness Note: To receive compliance credit the HERS rater			
			shall verify that the manufacturer's minimum weight and thickness has been achieved for the target			
1 1	- 1	1	R-value. (CF-6R only)			

DECLARATION

✓ ☑ I hereby certify that the installation meets all applicable requirements as specified in the Insulation Installation Procedures.

Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner	LIVES PROFERMES CONSTRUCTORY
Signature: Aty (. Byo)	Date: 1-13:10

INSTALLATION CERTIFICATE	(Page 12 of 12) CF-6F
Site Address XEUSERAICHRD	42ADEW Permit Number OB. 1899
County Subdivision	Lot Number
Description of Insulation (Formerly IC-1 Form)
1. RAISED FLOOR Material FIBPE BATT Thickness (inches)	Brand Name DOU CURHING Thermal Resistance (R-Value) 2:30
2. SLAB FLOOR/PERIMETER Material FIST SATT Thickness (inches) Perimeter Insulation Depth (inches)	Brand Name Dow Thermal Resistance (R-Value)
3. EXTERIOR WALL Frame Type WOOD 2 16 A. Cavity Insulation Material RGEE 131 Thickness (inches) B. Exterior Foam Sheathing Material Thickness (inches)	Brand Name Oo Thermal Resistance (R-Value) Brand Name Thermal Resistance (R-Value)
4. FOUNDATION WALL Material Thickness (inches)	Brand Name Thermal Resistance (R-Value)
5. CEILING Batt or Blanket Type	Brand Name Thermal Resistance (R-Value) Brand Minimum thicknessinches chieve Thermal Resistance (R-Value)
6. ROOF Material Thickness (inches) Declaration ✓ □ I hereby certify that the above insulation was installed current Energy Efficiency Standards for residential buildings on the Certificate of Compliance, where applicable.	Brand Name Thermal Resistance (R-Value) In the building at the above location in conformance with the (Title 24, Part 6, California Code of Regulations) as indicated
ltem #s (if applicable) Signature Date No. W	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor
Item #s Signature Date	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor
ltem #s Signature Date (if applicable)	Installing Subcontractor (Co. Name) OR General Contractor (Co. Name) OR Owner OR Window Distributor

Special Inspection and Testing Requirements CNI-012

*						*
BROWN-GARAGE 34285 KRUSE RA					E BANC	CH RD BLD08-5303
Project		AGE		Project Addre		Permit No.
. 10,000				, , 0,000, , , , , , , ,		
Reinford	ced Cor	crete.	Guni	te, Grout and	Embed	dded Bolts or inserts: CBC 1701.5.2 and .15
Mortar:		, ,		CBC 1701.5.1		Bolt/Insert Placement Inspection %
Concrete	Gunite	Grout	Morta	•	0	Bolt/Insert Tension Test %
<u> </u>				Aggregate Tests	_	Bolt/Insert Shear Test %
ũ	ū	ō	_	Reinforcing Tests	_	Epoxy Mix and Placement Observation %
ō	ā	_	ō	Mix Designs	_	ural Steel / Welding: CBC 1701.5.5 and .6
ā	ā	ū	_	Reinforcing Placement	0.000	Sample and Test (list specific members below)
ū	.0	_	<u> </u>	Batch Plant Inspection		Shop Material Identification
ā	ō	_	ā	Inspect Placing		Welding Inspection ☐ Shop ☐ Field
<u> </u>	Ö	<u> </u>	ā	Cast Samples	0	Ultra Sonic Inspection Shop Shep
ā	ā			Pick-up Samples	_	High-Stress Bolting Inspection
ū	Ö	_	ū	Compression Tests	_	□ A325 □ Shop □ Field
				CBC 1701.5.1 and. 4		□ A490 □ N □ X □ F
Piers	Grade	Pretens	Precas	ıt		Metal Deck Welding Inspection
	Beams				ō	Reinforcing Steel Welding Inspection
<u> </u>				Aggregate Tests		Metal Stud Welding Inspection
	O			Reinforcing Tests		Concrete Insert Welding Inspection
Ö	ū			Tendon Tests	Structi	ural Wood: CBC 1701.5.15
₽/	Q			Mix Designs		Horizontal Diaphragms
A (.				Reinforcing Placement	ā	Shear Wall Nailing Inspection
ο,			Ü	Insert Placement	_	Inspection of Glulam Fabrication
				Concrete Batching		Inspection of Truss Joint Fabrication
				Installation Inspection	_	Sample and Test Components
				Cast Samples	_	chnical/Foundation: CBC 1701.5.11 and .13
			Ü	Pick-up Samples	George	Soils Engineer Plan Review Acceptance Letter
			. 🗅	Compression Tests		Foundation Excavation
		rvatio	n by /	Architect or		Pier Holes
Enginee	r:			CBC 1702	7	Site Drainage
	Foundatio	n Observ	ation			Fill Material
	Framing C	Observatio	on			☐ Placement Inspection
(3)	Final Obse	ervation		,		☐ Field Density
Ö	General C	onformar	nce Lette	ers		☐ Acceptance Letter
Masonry	/ :			CBC 1701.5.7	- ₺	Acceptance Letter
	Special In:				Firepr	bofing: CBC 1701.5.10
	Prelim. Ac	ceptance	Test (M	lasonry Units, Wall Prisms)		Placement Inspection
	•		-	Grout, Field Wall Prisms)		Density Tests
	Placemen	t Inspecti	on of Un	its		Thickness Tests
TI	Lina	2		2/9/09	ō	Inspect Batching
Plans Exam	iner	<u></u>		Date	_	ting Concrete: CBC 1701.5.9
				96/0		Sample and Test
men	ren		<u>ما (د</u>	<u> </u>	_	Placement Inspection
Requiremen	its specified	d by (Arci	hitec∜En	gineer of recorb) / Date	ū	Unit Weights
				•	Additio	nal Instructions/Other Tests & Inspections:
Contractor		·		Date		-
1,11				7610		
_OUL	<u> 212</u>			- CMO!		

Sonoma County Permit and Resource Management Department
2550 Ventura Avenue Santa Rosa, CA 95403-2829 (707) 565-1900 Fax (707) 565-2210