



Plans

BLD13-0526

**Permit Number** 

1733

Street Number

SKILLMAN

Street Name

PET

**Community Code** 

049 - 091 - 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 TOHN KC GOLTERNA	NN Date Applied: 2-6-13
INFORMATION WITHIN HEAVY LIN	NE TO BE COMPLETED BY APPLICANT
Site Address: 1733 SKILLMAN LN.	RMATION - PRINT CLEARLY  City: TETALIANA  ZIP 44952
Cross-Street: FAR AVENUE COLO	
Directions: HEALVAN BLVD. NO. TO SKILLMAN	Email address: PROLONESELLER CONAST, WEST
Describe Project: CONVERT EXIST. 3 CAR GARAGE	Living Area
TO LIVING STACE	Garage 25,000
OWNER NAME AND ADDRESS	APPLICANT NAME AND ADDRESS
Malling Address: ALAT MILEO ALLE	Name: JOHN KC GOLTERMANN
Mailing Address: 407 MLUEL AUE.  City: MUL VAI PU State: CA ZIP:9494	City: PETALUMA State: CA ZM94952
Day Ph: 4/5 858 851 7 Fax: 4/5 388 8069	Day Ph: 707 763 1111 Fax 7107 940 470()
CONTRACTOR INFORMATION	OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)
Company Name: GOLTERMANN CONST IN	Name:
City: PSALIMA State: CA ZIP: 94952	Address:
Day Phi 70 753         Fax 70 79404200	City:         State:         ZIP:           Day Ph: ( )         Fax: ( )           License No:         Exp. Date:
WORKER'S COMPENSATION DECLARATION	License No: Exp. Date:
I hereby affirm under penalty of perjury one of the following declarations:  I have and will maintain a certificate of consent to self-insure for worker's compensation, as	CONSTRUCTION LENDING DECLARATION
provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.  □ I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor	I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Clv. C.).
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
CarrierPolicy	Lenders Address
No	ARD FOR DEPARTMENT USE
person in any manner so as to become subject to the worker's compensation laws of California, and	Zoning Acres Existing Use/Structures FILE No.
agree that if I should become subject to the worker's consensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.	Proposed Use/Structures  Zoning Min. Yard Requirements: Front Left Right Biology  NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback
Exp. Date: Applicant:	unless mitigated.   Mitigation Required Address subject to change
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	Approval for Permit Issuance: Approfator occupancy:
PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.	Date: By Date: Dat
OWNER-BUILDER DECLARATION  I hereby affirm under penalty of perjury that I am exempt from the Contractor's License Law for the	Conditions:
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	SPACE TO LIVING AREA. SECOND
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).):	Approved by: Date:
C) 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	Road Encroachment: Fees Paid
employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the	Approved by: Date:
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	Approved by: 76) 1/5/1/18 - Date: 2/0/1/3
project (Sec. 7044. Business and Professions Code: The Contractors License Lew 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.).	Flood Zone: Yes XNo 100 Year Flood Elevation:
□ I am exempt under Sec, B & P.C. for this reason	Site Review .
By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this	Drainage Review: Approved by: Date:
permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable	Fire: 6.1 7/10/13
law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following website: http://www.leginfo.ca.gov/calaw.html.	Approved by: Date:
Date Signature of Property Owner or Authorized Agent	Code Enforcement Violation
LICENSED CONTRACTOR'S DECLARATION	
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.	
Lic. Class B Lic. No. 304928	Work Authorized:
Exp. Date 1013 Contractor	Work Authorized:  CONVEY QUARTE TO (IN AO C) SPO  Plana Approved No Plana Subject to Field Inspection Pre FIRM Geotlechnical report Available Pre Firm Geotlechnical R
ASBECTOS DECLARATION	Plans Approved  Plans Approved  Post FIRM
Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is a required when asbestos exists in buildings, or portions thereof, undergoing demotition. I hereby declare that demotition authorized by this permit is from construction that (□ does) (□ does not)	No Plans Subject to Field Inspection Pre FIRM Geotechnical report Available  Pre FIRM Geotechnical report Available  Type of Occupancy No. of Stories Stories Stories Stories Stories Stories Stories Stories Stories
contain asbestos, or that 🗆 no demolition is authorized by this permit.	Z 13 13 Construen 23 Spring Scoring Construence Constr
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.	C Firmit Change Date: Auto. Fire No of Units Certificate of Occupancy
I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purpose. If, after making the Certificate of Exemption for the Worker's Compensation provision and the second should be controlled to the provision of the University of the County	( ) 3   3   yes
Compensation provisions the LaberCode I should become subject to such provisions, I will forthwith comply. In the event do not comply with the Workman's Compensation law, this permit shall be deemed revolutionally the compensation of the compensation of the compensation of the compensation law, this permit shall be deemed revolution.	S S S
PERMITTING SIGNATURE 0 0 19/2	TED 12 and
3/6 RESOLUTE BUVO. S. KERLUM 94952	FEB 1 3 2013
ADDRESS CITY ZIP  Contractor  Owner  Other Licensed Professional	PERMIT AND RESOURCE MANAGEMENT DEPARTMENT
THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES	COUNTY OF SONOMA
ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT	Distribution: White - File Canary - Applicant Blue - Assessor Cardstock - Inspector

	INSPECTION RECORD	DATE	NAME	REMARKS	
101)	ROUGH GRADING				"
103)	FOUNDATION	1	· · · · · · · · · · · · · · · · · · ·		
	FORMS/SETBACK	<del>                                     </del>	-		
	FOOTING		-		
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	WALLS (IN - FILL)	3.25.13	///_	@ GAMAG SODES	
106)	UFER GROUND #				
104)	CAISSONS/PIERS		1		
105)	SLAB				
107)	UNDERGROUND UTILITIES	+	· · · · · · · · · · · · · · · · · · ·		
1.2.7		<del>.</del>	<u> </u>		
110)	MASONRY	<u> </u>			
109)	RETAINING WALLS			'	
113)	FIREPLACE				
	FOOTING			,	
	HEARTH/PROTECTION				<del></del>
	THROAT	+			
44.45		<del> </del>			
114)	CHIMNEY	<u> </u>			
120)	UNDERFLOOR/UNDERSLAB		1		
115)	HYDRONICS				
116)	U/F ELECTRICAL		<u> </u>		
<del></del>		+			
117)	U/F MECHANICAL				
118)	U/F PLUMBING				
119)	U/F FRAMING PED S.P.	3.27.12	1		
139)	U/F INSULATION				
126)	SHEAR WALLS				
1—	NTERIOR	<u> </u>	l		
	7178	<del></del>	1		
127)	DIAPHRAGMS				
	ROOF   FLOOR				·
134)	SIDING/SHEATHING			> SUB-SHEATHING, IN-FILL	DALLES DO
125)	HOLD DOWNS		Ì		
132)	CLOSE-IN	- 27 /2	n		
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122)	ROUGH ELECTRICAL	ļ			
123)	ROUGH MECHANICAL				
124)	BOTTOH LITTURE A				
128)	ROUGH FRAME				
	SMOKE DETECTORS 4	125/1	5 5/3	,,,,,,	
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139) 142) 143) 135) 137) 137)	INSULATION  WALLBOARD  FIREWALLS  STUCCO/PLASTER  ATH SCRATCH  ROOFING  TUB/SHOWER PAN		w		
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PER	<b>FORM</b>	ANCE CE	ERTIFIC	ATE: F	Resid	<u>ential</u>			(Part 1	of 5)	CF-1F
Project I	Name an Additi	ion.		Buil	ding Type	⊒ Mu		Addition		n/Alteration	Date 2/8/2013
Project /		UII		Cal	ifornia En	ergy Clima	•		loor Area	Addition	<u> </u>
1733 5	Skillman i	Lane Petal	luma			ate Zon		1,14		1,147	1
FIEL	D INSI	PECTION	ENER	GY CHE	CKL	ST					
☐ Ye	s 🗹 No	HERS M	leasures -	If Yes,	A CF-	4R mu	st be prov	ided pe	er Part	2 of 5 of t	his form.
☑ Ye	s 🗆 No	Special I	Features	If Yes,	see P	art 2 of	5 of this f	orm fo	r detail:	S.	
INSU	LATION		·	· · · · · · · · · · · · · · · · · · ·		Area	Specia				
	truction			Ca	vity	$(ft^2)$	•		e Part	2 of 5)	Status
Roof	Wood Fi	ramed Rafter		R-30		1,147					New
Wall	Wood F	ramed		R-13		1,082					New
Floor	Wood Fi	ramed w/Crawl S	Space	R-19		1,147					New
					·						
		· · · · · · · · · · · · · · · · · · ·				********		· ··· ·-			
FENE	STRAT	ION	U-				···	Exte	rior		
Orien	tation	Area(ft²)	Factor	SHGC	Over	hang	<b>Sidefins</b>	Shac	les		Status
Front (N)		58.0	0.370	0.32	none		none	Bug S	creen		New
Left (E)		35.0	0.370	0.32	none		none	Bug S	creen		New
Rear (S)											
<del></del>		31.0	0.370	0.32	none		none	Bug S	creen		New
Right (W)	)	31.0 48.0	0.370	0.32	none none		none	Bug So			New New
Right (W)	)		•		· · · · · · · · · · · · · · · · · · ·						
Right (W)	)		•		· · · · · · · · · · · · · · · · · · ·						
Right (W)	)		•		· · · · · · · · · · · · · · · · · · ·						
	SYSTE	48.0	•		· · · · · · · · · · · · · · · · · · ·						
HVAC		48.0 EMS	•	0.32	· · · · · · · · · · · · · · · · · · ·			Bug S	creen	mostat	
HVAC	SYSTE	48.0 EMS	0.370	0.32	none		none	Bug Sa	creen	mostat	New
HVAC Qty.	SYSTE Heatin Central Fu	48.0 EMS g	0.370 Min. E	0.32	oling		none Min. Ef	Bug Sa	Ther Setback		New Status
HVAC Qty.	SYSTE Heating Central Fu	### ### ##############################	0.370 Min. E 78% AF6	0.32	oling	Due	Min. Et	Bug Sa	Ther Setback	uct	Status Existing
HVAC Qty.	SYSTE Heating Central Fu	EMS g mace	0.370  Min. E 78% AF6	0.32  Eff Co	oling Cooling		Min. Et	Bug Sa	Ther Setback D	uct -Value	Status Existing Status
Qty.	SYSTE Heating Central Fu	### ### ##############################	0.370  Min. E 78% AF6	0.32	oling Cooling		Min. Et	Bug Sa	Ther Setback D	uct	Status Existing
HVAC Qty. 1 HVAC Locat	SYSTE Heating Central Fu	EMS g mace IBUTION He	Min. E 78% AFG	0.32  Eff Co	oling Cooling	Attic, C	Min. Et	f R	Ther Setback D	uct -Value	Status Existing Status

PERFORMANCE CERTIFIC			(Part 2 of 5)	CF-1R
Project Name Skillman Addition	Building Type	☑ Single Family ☐ Multi Family	☑ Addition Alone ☐ Existing+ Addition/Alteration	Date 2/8/2013
SPECIAL FEATURES INSP The enforcement agency should pay special justification and documentation, and special determines the adequacy of the justification, the special justification and documentation so	attention to the items verification to be used and may reject a build	specified in this che with the performan	ice approach. The enforcement ac	encv
The HVAC System Existing FAU does not include a	a cooling system, field ve	arification is not neces	sary.	
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HERS REQUIRED VERIFICATION  Items in this section require field testing a completed CF-4R form for each of the management of the managemen	and/or verification b	y a certified HERS v for final to be gi	S Rater. The inspector must reven.	eceive a
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PERFORMANC	E CERT	IFICATE:	Residen	tial	(Part 3 of 5)	CF-1R							
Project Name Skillman Addition			Building Type	☑ Single Family ☐ Multi Family	☑ Addition Alone ☐ Existing+ Addition/Alteration	Date 2/8/2013							
ANNUAL ENERGY USE SUMMARY													
TDV (kBtu/ft²-yr)	Standard	Proposed	Margin										
Space Heating	46.88	47.53	-0.65										
Space Cooling	33.25	25.77	7.48										
Fans	13.37	11.65	1.72										
Domestic Hot Water	0.00	0.00	0.00										
Pumps	0.00	0.00	0.00										
Totals	93.50	84.94	8.56			<del></del>							
Percent Better Than	Standard:		9.2 %										
BUILDIN	IG COM	PLIES	NO HEI	S VEDIE	CATION PEOUPE	:n							

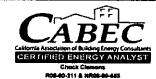
BUILDING COMPLIES	- NO HERS	<b>VERIFICATION REQUIRED</b>
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Building Front	Orientation:	(N) 0 deg	Ext. Walls/Roof	Wall Area	Fenestration Area		
Number of Dw	elling Units:	0.29	(N)	451	58		
Fuel Available	at Site:	Natural Gas	(E)	308	35		
Raised Floor A	Area:	1,147	(S)	187	31		
Slab on Grade	Area:	0	(W)	308	48		
Average Ceilin	ng Height:	11.0	Roof	1,147	0		
Fenestration	Average U-Factor:	0.37		TOTAL:	172		
DEMARKS	Average SHGC:	0.32	Fenestra	Fenestration/CFA Ratio:			

REMARKS

## STATEMENT OF COMPLIANCE

This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 the Administrative Regulations and Part 6 the Efficiency Standards of the California Code of Regulations.



The documentation author hereby certifies that the documentation is accurate and complete.

### **Documentation Author**

Company

Energy Calc Co.

45 Mitchell Blvd. #16 Address

Name Chuck Clemons

2/8/2013

City/State/Zip San Rafael, Ca. 94903

Phone (415) 457-0990

Date

The individual with overall design responsibility hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application, and recognizes that compliance using duct design. duct sealing, verification of refrigerant charge, 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)

Company

KCS Inc.

Address

467 Miller Ave.

City/State/Zip Mill Valley, Ca. 94941

M'Guier

Phone 415-888-8812

License #

Date

EnergyPro 5.1 by EnergySoft User Number: 1005

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ID: 0208SKI

Signed

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Vall		260	0.102							270				.1-A3				n Zone		
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2	Wind		35.0	0.370	NFRC	0.32	NFR	C		New	Ar	dersen i	<sup>o</sup> erma	shield			on Zo			
3	Wind		31.0	0.370			NFR			New		dersen l					on Zo			
4	Wind	ow	48.0	0.370	NFRC	0.32	NFR	<u>c  </u>	270	New	Ar	dersen l	<sup>o</sup> erma	shield		Addition Zone				
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## MANDATORY MEASURES SUMMARY: Residential (Page 1 of 3) MF-1R Project Name Date Skillman Addition 2/8/2013 NOTE: Low-rise residential buildings subject to the Standards must comply with all applicable mandatory measures listed, regardless of the compliance approach used. More stringent energy measures listed on the Certificate of Compliance (CF-1R, CF-1R-ADD, or CF-1R-ALT Form) shall supersede the items marked with an asterisk (\*) below. This Mandatory Measures Summary shall be incorporated into the permit documents, and the applicable features shall be considered by all parties as minimum component performance specifications whether they are shown elsewhere in the documents or in this summary. Submit all applicable sections of the MF-1R Form with plans. **Building Envelope Measures:** §116(a)1: Doors and windows between conditioned and unconditioned spaces are manufactured to limit air leakage. §116(a)4: Fenestration products (except field-fabricated windows) have a label listing the certified U-Factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration that meets the requirements of \$10-111(a). §117: Exterior doors and windows are weather-stripped; all joints and penetrations are caulked and sealed. §118(a): Insulation specified or installed meets Standards for Insulating Material. Indicate type and include on CF-6R Form. \$118(I): The thermal emittance and solar reflectance values of the cool roofing material meets the requirements of \$118(I) when the Installation of a Cool Roof Is specified on the CF-1R Form. \*§150(a): Minimum R-19 insulation in wood-frame ceiling or equivalent U-factor. §150(b): Loose fill insulation shall conform with manufacturer's installed design labeled R-Value. \*§150(c): Minimum R-13 insulation in wood-frame wall or equivalent U-factor. \*§150(d): Minimum R-13 insulation in raised wood-frame floor or equivalent U-factor. §150(f): Air retarding wrap is tested, labeled, and installed according to ASTM E1677-95(2000) when specified on the CF-1R Form. §150(g): Mandatory Vapor barrier installed in Climate Zones 14 or 16. §150(i): Water absorption rate for slab edge insulation material alone without facings is no greater than 0.3%; water vapor permeance rate is no greater than 2.0 perm/inch and shall be protected from physical damage and UV light deterioration. Fireplaces, Decorative Gas Appliances and Gas Log Measures: §150(e)1A: Masonry or factory-built fireplaces have a closable metal or glass door covering the entire opening of the firebox. \$150(e)1B: Masonry or factory-built fireplaces have a combustion outside air intake, which is at least six square inches in area and is equipped with a with a readily accessible, operable, and tight-fitting damper and or a combustion-air control device. §150(e)2: Continuous burning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the outside of the building, are prohibited.

## Space Conditioning, Water Heating and Plumbing System Measures:

- §110-§113: HVAC equipment, water heaters, showerheads, faucets and all other regulated appliances are certified by the Energy
- \$113(c)5: Water heating recirculation loops serving multiple dwelling units and High-Rise residential occupancies meet the air release valve, backflow prevention, pump isolation valve, and recirculation loop connection requirements of §113(c)5.
- §115: Continuously burning pilot lights are prohibited for natural gas; fan-type central furnaces, household cooking appliances (appliances with an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt), and pool and spa heaters.
- §150(h): Heating and/or cooling loads are calculated in accordance with ASHRAE, SMACNA or ACCA.
- §150(i): Heating systems are equipped with thermostats that meet the setback requirements of Section 112(c).
- §150(i)1A: Storage gas water heaters rated with an Energy Factor no greater than the federal minimal standard are externally wrapped with insulation having an installed thermal resistance of R-12 or greater.
- §150(j)1B: Unfired storage tanks, such as storage tanks or backup tanks for solar water-heating system, or other indirect hot water tanks have R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the
- \$150(j)2: 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 are insulated per Standards Table 150-B.
- §150(j)2: Cooling system piping (suction, chilled water, or brine lines), and piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A.
- §150())2: Pipe insulation for steam hydronic heating systems or hot water systems >15 psi, meets the requirements of Standards Table 123-A.
- §150(j)3A: Insulation is protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. \$150(j)3A: Insulation for chilled water piping and refrigerant suction lines includes a vapor retardant or is enclosed entirely in

MANDATORY MEASURES SUMMARY: Residential	(Page 2 of 3)	MF-1R
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§150(m)1: All air-distribution system ducts and plenums installed, are sealed and insulated to meet the requirements of CMC Sections 601, 602, 603, 604, 605 and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minimum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used

§150(m)1: Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts.

§150(m)2D: Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.

§150(m)7: Exhaust fan systems have back draft or automatic dampers.

§150(m)8: Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers.

§150(m)9: Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material.

§150(m)10: Flexible ducts cannot have porous inner cores.

§150(o): All dwelling units shall meet the requirements of ANSI/ASHRAE Standard 62.2-2007 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings. Window operation is not a permissible method of providing the Whole Building Ventilation required in Section 4 of that Standard.

### Pool and Spa Heating Systems and Equipment Measures:

§114(a): Any pool or spa heating system shall be certified to have: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater; a permanent weatherproof plate or card with operating instructions; and shall not use electric resistance heating or a pilot light.

§114(b)1: Any pool or spa heating equipment shall be installed with at least 36" of pipe between filter and heater, or dedicated suction and return lines, or built-up connections for future solar heating.

§114(b)2: Outdoor pools or spas that have a heat pump or gas heater shall have a cover.

§114(b)3: Pools shall have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.

§150(p): Residential pool systems or equipment meet the pump sizing, flow rate, piping, filters, and valve requirements of §150(p).

### **Residential Lighting Measures:**

§150(k)1: High efficacy luminaires or LED Light Engine with Integral Heat Sink has an efficacy that is no lower than the efficacies contained in Table 150-C and is not a low efficacy luminaire as specified by §150(k)2.

§150(k)3: The wattage of permanently installed luminaires shall be determined as specified by §130(d).

§150(k)4: Ballasts for fluorescent lamps rated 13 Watts or greater shall be electronic and shall have an output frequency no less than 20 kHz.

§150(k)5: Permanently installed night lights and night lights integral to a permanently installed luminaire or exhaust fan shall contain only high efficacy lamps meeting the minimum efficacies contained in Table 150-C and shall not contain a line-voltage socket or line-voltage lamp holder; OR shall be rated to consume no more than five watts of power as determined by §130(d), and shall not contain a medium screw-base socket.

§150(k)6: Lighting integral to exhaust fans, in rooms other than kitchens, shall meet the applicable requirements of §150(k).

§150(k)7: All switching devices and controls shall meet the requirements of §150(k)7.

§150(k)8: A minimum of 50 percent of the total rated wattage of permanently installed lighting in kitchens shall be high efficacy. EXCEPTION: Up to 50 watts for dwelling units less than or equal to 2,500 ft2 or 100 watts for dwelling units larger than 2,500 ft2 may be exempt from the 50% high efficacy requirement when: all low efficacy luminaires in the kitchen are controlled by a manual on occupant sensor, dimmer, energy management system (EMCS), or a multi-scene programmable control system; and all permanently installed luminaries in garages, laundry rooms, closets greater than 70 square feet, and utility rooms are high efficacy and controlled by a manual-on occupant sensor.

§150(k)9: Permanently installed lighting that is internal to cabinets shall use no more than 20 watts of power per linear foot of illuminated cabinet.

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§150(k)10: Permanently installed luminaires in bathrooms, attached and detached garages, laundry rooms, closets and utility rooms shall be high efficacy.

EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by a manual-on occupant sensor certified to comply with the applicable requirements of §119.

EXCEPTION 2: Permanently installed low efficacy luminaires in closets less than 70 square feet are not required to be controlled by a manual-on occupancy sensor.

§150(k)11: Permanently installed luminaires located in rooms or areas other than in kitchens, bathrooms, garages, laundry rooms, closets, and utility rooms shall be high efficacy luminaires. EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided they are controlled by either a dimmer switch that complies with the applicable requirements of §119, or by a manual-on occupant sensor that complies with the applicable requirements of §119. EXCEPTION 2: Lighting in detached storage building less than 1000 square feet located on a residential site is not required to comply with §150(k)11.

§150(k)12: Luminaires recessed into insulated ceilings shall be listed for zero clearance insulation contact (IC) by Underwriters Laboratories or other nationally recognized testing/rating laboratory; and have a label that certifies the lumiunaire is airtight with air leakage less then 2.0 CFM at 75 Pascals when tested in accordance with ASTM E283; and be sealed with a gasket or caulk between the luminaire housing and ceiling.

§150(k)13: Luminaires providing outdoor lighting, including lighting for private patios in low-rise residential buildings with four or more dwelling units, entrances, balconies, and porches, which are permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy. EXCEPTION 1: Permanently installed outdoor low efficacy luminaires shall be allowed provided that they are controlled by a manual on/off switch, a motion sensor not having an override or bypass switch that disables the motion sensor, and one of the following controls: a photocontrol not having an override or bypass switch that disables the photocontrol; OR an astronomical time clock not having an override or bypass switch that disables the astronomical time clock; OR an energy management control system (EMCS) not having an override or bypass switch that allows the luminaire to be always on EXCEPTION 2: Outdoor luminaires used to comply with Exception1 to §150(k)13 may be controlled by a temporary override switch which bypasses the motion sensing function provided that the motion sensor is automatically reactivated within six hours. EXCEPTION 3: Permanently installed luminaires in or around swimming pool, water features, or other location subject to Article 680 of the California Electric Code need not be high efficacy luminaires.

§150(k)14: Internally illuminated address signs shall comply with Section 148; OR not contain a screw-base socket, and consume no more than five watts of power as determined according to §130(d).

§150(k)15: Lighting for parking lots and carports with a total of for 8 or more vehicles per site shall comply with the applicable requirements in Sections 130, 132, 134, and 147. Lighting for parking garages for 8 or more vehicles shall comply with the applicable requirements of Sections 130, 131, 134, and 146.

§150(k)16: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more dwelling units shall be high efficacy luminaires. EXCEPTION: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by an occupant sensor(s) certified to comply with the applicable requirements of §119.