## TITLE 24 CALCUATIONS

energy calculations to the window & door

CERTIFICATE OF COMPLIANCE - RES Project Name: Naviaux Companion Calculation Description: res

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFOR Project Name: Naviaux Companion
Calculation Description: res

04 05
Width (ft) Height (ft)

3. A registered CF2R will have a unique 21-digit registration number followed by four zeros located at the bottom of each page. The first 12 digits of the number will match the registration number of the associated CF1R. Certificate of Occupancy will not be issued until forms CF2R is reviewed and approved.

4. HERS Note on the plan: "An electronically signed and registered Certificate(s) of Field Verification and Diagnostic Testing (CF3R) shall be posted at the building signed and registered Certificate(s) of Field Verification and Diagnostic Testing (CF3R) shall be posted at the building site by a certified HERS rater.

5. A registered CF3R will have a unique 25-digit registration number located at the bottom of each page. The first 20 digits of the number will match the registration number of the associated CF2R. Certificate of Occupancy will not be issued until CF3R is reviewed and 1. Provide the U-Factor & SHGC shown on the energy calculations to the window & door schedule or note it on the plans.

a See window and door schedule sheet A-8.1 and A-8.2

2. An electronically signed and registered Installation Certificate(s) (CF2R) posted by the installing contractor shall be submitted to the field inspector during construction at the building site.

approved."

Please indicate on the plans which method will be used to meet the requirements for ventilation for indoor air quality (IAQ).

a The HVAC mechanical unit will provide outside air to meet ventilation for indoor air quality. See sheets AM-12.1 & AM-12.2

Clearly identify the dedicated source and note the ventilation rate (cfm) that will be used to achieve the requirements of whole-building ventilation. (New construction or Additions > 1,000 sq. ft.)

a See tile 24 calculation page 10 - Not Required

RTIFICATE OF COMPLIANCE - RES

ERTIFICATE OF COMPLIANCE - RES oject Name: Naviaux Companion liculation Description: res 19

016 Resid	JO-000-000	z	Ve		ssMiniSpl	Type	System	02	Co	Heat P	S	1	1	nsumer ntaneous JEF)	к Туре	5	3	2	ystem Type	02			ij		ION	
00-000-0000000-0000 016 Residential Compliance		Not Required	Verified Airflow	02	ssMiniSplitHeatPump		3		Cooling System	Heat Pump Heating and	System Type	02		>	Number \ of Units	ş	24		pe	30 cm			Quality			
						-	Nun			-	<u> </u>	N.		0	Tank Volume (gal)		2		Dist				y Installa			
Report V		H		Н		Units	Number of	03		idaire FF	Heating Unit Name	03		0.97	Uniform Factor Factor /	1		Collingia	Distribution Type	03		Not Required	tion of Sp	02		
Registration Date/Time: 12/17/2019 08:59 Report Version - CF1R-01162019-1149	1	n/a	Airflow Target	03	8.2	HSPF/COP		04OR		π Ti	it Name			0.97 UEF	Uniform Energy Factor / Energy Factor / Efficiency	06 m Energy		уре			ired	Quality Installation of Spray Foam Insulation			Cal	
e: 12/17/20 R-01162019-			get		19800	Cap 47	Heating	7 05 L	ğ		Cooling			<= 200 kBtu/hr	Pilot / Thermal Efficiency	Input Rating/	2	Manager Mr C-2400 (1)	Water No		7		sulation			Calculation Date/Time: 08:37, Tue, Dec 17, 2019 Input File Name: NaviauxCompanion.ribd16
1149		z	٧		11880	Cap 17	]	90		FHP182S	Cooling Unit Name	04				- 4		1000	Water Heater	2			Bu			hate/Time me: Navia
		Not Required	Verified EER	04	14	SEER	Cooling	07	H	8		)		R-0/R-0	Insulation R-value (Int/Ext)	Tank	8		-			Not	ilding Env			s: 08:37, " auxComp
	I	a	20		11.7	EER	ling	80		None	Fan Name	05		n/a	Loss / Recovery Eff	Standby	00	.	Number of Heaters	05		Not Required	Building Envelope Air Leakage	03		Tue, Dec 1 anion.ribd1
<b>7</b> I		Not R	Verifie		Not Zonal	Controlled	Zonally	09				7	A A	9 GPM	First Hour Rating / Flow Rate	7	5	╠	-	+			eakage			7, 2019 16
eport Ger		Not Required	Verified SEER	05	Single		Comp			None	Distribution Name	90				$\overline{}$	$\frac{1}{2}$	100	Solar Fraction	90		-		_		
HERS Provider: California Energy Registry Report Generated at: 2019-12-17 08:38:07		H		Н	Single Speed	Type	Compressor	10		ne l	on Name	65		nía	NEEA Heat Pump Brand / Model / Other	=	•		tion (%)							
omia Ener 2019-12-1	1	Not Re	Verified R Cha		FFHP1829	Veri	_		$\  \cdot \ $							$\rightarrow$	$\downarrow$	$\  \cdot \ $	T.,			n/a	CFM50	04		
HERS Provider: California Energy Registry Report Generated at: 2019-12-17 08:38:07		Not Required	Verified Refrigerant Charge	06	Frigidaire FFHP182SQ2-hers-cool	Verification	HERS	11		New	Status	07		n/a	Tank Location or Ambient Condition	Ā	3	NOW	Status	07						Page 4 of 6
CA Buildi									<b>⊿</b>		_							J L							IAQ (Ind	
Registration Number: 419-P010139139 CA Building Energy Efficiency Standards																						SFam IAQVentRpt	Dwelling Unit	01	Indoor Air Quality) FANS	Project Name: Naviaux Companion Calculation Description: res

Heater Element Type

Skylight Area (ft2) Roof Rise (x in 12)

IAQ Watts/CFM

12/17/2019 08:5 01162019-1149

CERTIFICATE OF COMPLIANCE - RESI Project Name: Naviaux Companion Calculation Description: res

METHOD

Calculation Date/Time: 08:37, Tue, Dec 17, 2019
Input File Name: NaviauxCompanion.ribd16

Michael Morton AIA
Claude Anthony Marengo Desa

SED\*ARCH

Fax. (858) 459-3768

Tel. (858) 459-3769

La Jolla, CA 92037

Documentation Author Signature: Mark Gallant

tion Date/Time: 12/17/2019 08:59 fersion - CF1R-01162019-1149

2x4 @ 16 in. O.C

Second Floor

7724 Girard Ave.

Architects

Morton

Marengo

UMENTATION AUTHOR'S DECLARAT prify that this Certificate of Compliance mentation Author Name:

CALIFORNIA ENERGY REGISTRY CHEERS

NOTICE: This certificate has been generated by California Energy Registry, Inc. ("Cal Energy") using informa Therefore, Cal Energy is not responsible for, and cannot guarantee, the accuracy or completeness of the info

0 HEERS

MICHARY

C-19371

RENEWAL

04/30/2021 CALLED OR NIA N

Certificate of Compliance. ents of Title 24, Part 1 and Part 6 of the Ca

TISION Coas	
oastal Revision	NAVIAUX TRU
1	COMPANION U
01/15/2020	5623 LA JOLLA HERN
)20	LA JOLLA, CA 92

S:\Projects\2019 Projects\2019-35 5623 La Jolla Hermosa\CADD Drawings\Architecure\Coastal Phase\Sheets\T-1.4 - Title 24.dwg Apr 02,2020-4:22pm

Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.

Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.\*

Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.\*

Pilot Light. 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.

Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.\*

Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone facings, no greater than 0.3%; have a water vapor permeance no greater than 2.0 perminch; be protected from physical damage and U deterioration; and, when installed as part of a hearted slab floor, meet the requirements of § 110.8(g).

Vapor Refarder. In Climate Zones 1-16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder requirement also applies to controlled ventilation crawl space for buildings complying with the exception to § 150.0(d).

Vapor Refarder. In Climate Zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.

Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have maximum U-factor of 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58.\*

tive Gas Appliances, and Gas Log Measures:

Thermostats. All unitary heating or cooling systems in the content of the mostats. All unitary heating or cooling systems in the content of the mostat. Sets the mostat. Water Heating Recirculation loops serving multiple Dwelling Units. Water heating recirculation loops serving multiple of Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heating recirculation loop connection requirement the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirement the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirement.

§ 150.0(m)10:

uct. Porous inner core flex duct must have a non-porous layer between the inner core and outer vapor barrier.

Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an sinust be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in )11and Reference Residential Appendix RA3.

13 systems that supply air to an occupiable space through ductwork exceeding 10 feet in length and through a thermal coept evaporative coolers, must be provided with air filter devices that meet the design, installation, efficiency, requirements of § 150.0(m)12.

Enclosed Luminaires. Light sources installed in enclosed luminaires must be JA8 compliant and must be marked with "JA8-2016-E."

Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.

Interior Switches and Controls. Luminaires must be switched separately from lighting systems.'

Interior Switches and Controls. Luminaires must be switched with readily accessible controls that permit the luminaires to be manually switched ON and OFF.

Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.

Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9.

Interior Switches and Controls. An energy management control system (EMCS) may be used to comply with dimmer requirements in § 150.0(k)2.

Interior Switches and Controls. An EMCS may be used to comply with vacancy sensor requirements of § 130.4; meets the EMCS requirements of \$ 130.5(f); and all other requirements in § 150.0(k)2.

Interior Switches and Controls. A multiscene programmable controller may be used to comply with dimmer requirements in § 150.0(k)2.

Interior Switches and Controls. A multiscene programmable controller may be used to comply with dimmer requirements in § 150.0(k). If it provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements in § 150.0(k). If it provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements in § 150.0(k).

§ 150.0(k)1H: § 150.0(k)2A: § 150.0(k)2B:

§ 150.0(k)1G:

§ 150.0(k)1F:

by vacancy sensors. **Lighting Integral to Exhaust Fans.** Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).\* **Screw based luminaires.** Screw based luminaires must not be recessed downlight luminaires in ceilings and must contain lamps that comply with Reference Joint Appendix JA8. Installed lamps must be marked with "JA8-2016" or "JA8-2016-E" as specified in Reference Joint Appendix

0 kHz.

light Lights. Permanently installed night lights and night lights integral to installed luminaires or exhaust fans must be rated to consume no nore than 5 wats of power per luminaire or exhaust fan as determined in accordance with § 130.0(c). Night lights do not need to be controlled

Single Family Residences. Single family residences located in subdivisions with ten or more single family residences and where the application for a tentative subdivision map for the residences has been deemed complete by the enforcement agency must comply with the requirements of § 110.10(b) through § 110.10(e).

Low-rise Multi-family Buildings. Low-rise multi-family buildings must comply with the requirements of § 110.10(b) through § 110.10(d).

Minimum Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventiation, and spacing requirements as specified in Title 24, Part 9 or other Parts of Title 24 or in any requirements access, pathway, smoke ventiation, and spacing requirements as specified in Title 24, Part 9 or other Parts of Title 24 or in any requirements access, pathway, smoke ventiation, and spacing requirements as specified in Title 24, Part 9 or other Parts of Title 24 or in any requirements access, pathway, smoke ventiation, and spacing requirements as specified in Title 24, Part 9 or other Parts of Title 24 or in any requirements access, pathway, smoke ventiation, and spacing requirements as specified in Title 24, Part 9 or other Parts of Title 24 or in any requirements access than 80 square feet each for buildings with roof areas stan 80 square feet each for buildings with roof areas specified in Title 24, Part 9 or other Parts of Title 24 or in any requirements access than 80 square feet each for buildings with roof areas specified in Title 24, Part 9 or other Parts of Title 24 or in any requirements access than 80 square feet each for buildings with roof areas specified in Title 24, Part 9 or other roof coverhang of the buildings with roof areas access than 160 square feet each for buildings with roof areas access than 250 square feet. For low-rise multi-family buildings the solar zone must be located on the roof or overhang of the building project, and have a total area no less than 15 percent of the total roof area of

DRAWN BY FG / AP / MM

04-03-2020

REVIEWED BY MRM

PROJECT NO. 2019-35

PHASE CONSTRUCTION DOCUMENT - CDP

Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the distance, measured in the horizontal plane, of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.

Structural Design Loads on Construction Documents. For areas of the roof designated as solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.

Interconnection Pathways. The construction documents must indicate: a location for inverters and melering equipment and a pathway for routing of conduit from the solar zone to the point of interconnection will be the main service panel); and a pathway for routing of plumbing from the solar zone to the water-heating system.

Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b) through § 110.10(c) must be provided to the occupant.

Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.

Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be: positioned at the opposite (load) end from the input feeder location or main circuit location; and permanently marked as "For Future Solar Electric".

Marengo Morton Architects, Inc. is providing, by agreement with certain parties, materials stored electronically. The parties ecognize that data, plans, specifications, reports, documents, or their information recorded on or transmitted as electronic media including but not necessarily limited to "CAD documents") are subject to undetectable elleration, either intentional or unintentional, due to, among other causes, transmission, conversion, media degradation, software error, or human alteration. Accordingly, all such documents are provided to the parties for informational purposes only and not as an end product nor as a record document. Any reliance thereon is described to be unreasonable and unenforceable. The signed and and increasonable and unenforceable. The signed and the signature of the Architect of the according to the signature of the Architect of the according to the

TITE TITLE 24 ENERGY CALCULATIONS

T-1.4

SHEET

OF

§ 150.0(m)9:

§ 110.7: § 110.8(a): § 110.8(g):

residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless respective section for more information. "Exceptions may apply.

2016 Low-Rise Residential Mandatory Measures Summary

Measures:

Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to whom the control of the c

§ 150.0(b):

§ 150.0(a):

Insulation Requirements for Heated Slab Floors. Heated slab ficors must be insulated per the requirements of § 110.8(g).

Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(g) when the installation of a cool roof is specified on the CF1R.

Radiant Barrier. A radiant barrier must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.

Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor of 0.054 or less in a rafter roof alteration. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a continuous roof or ceiling which is sealed to limit infiltration and exilitration as specified in § 110.7, including but not limited to placing insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.

Above Grade Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.02 or less (R-19 in 2x6 or U-factor of 0.074 or less). Opaque non-framed assembly is must have an overall assembly U-factor not exceeding 0.102, equivalent to an installed value of R-13 in a wood framed assembly.

Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 movimum.

§ 150.0(j)3B:

Insulation Protection. Insulation exposed to weather must be installed with a cover suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. The cover must be water retandant and provide shielding from solar radiation that can cause degradation of the material.

Insulation Protection. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must have Class I vapor retander.

Gas or Propane Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of the following: a 120V electrical receptacle within 3 feet of the water heater; a Category III or IV vent, or a Type 8 vent with straight pipe between the outside termination and the space where the water heater is installed; a condensate drain that is no more than 2 inches higher than the base of the water heater, and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Bluhr.

Recirculating Loops. Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5.

Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Copporation (SRCC) or by a listing agency that is approved by the Executive Director.

§ 110.9(e): § 150.0(k)1A:

§ 150.0(k)1C:

Lighting Controls and Components. All lightling which we control of § 110.9.\*

JA8 High Efficacy Light Sources. To qualify as a JA8 high efficacy light source for compliance with § 150.0(k), a residential light source must be certified to the Energy Commission according to Reference Joint Appendix JA8.

Luminaire Efficacy. All installed luminaires must be high efficacy in accordance with TABLE 150.0-A.

Blank Electrical Boxes. The number of electrical boxes that are more than 5 feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or fan speed control.

Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC) labeling; air leakage, sealing, maintenance; and socket and light source as described in § 150.0(k):1C. A JA8-2016-E light source rated for elevated temperature must be installed by final inspection in all recessed downlight luminaires in ceilings.

Electronic Ballasts. Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.

§ 150.0(j)2B

system line insulation. All domestic hot water pipes that are buried below grade must be installed in a water proof x sleeve."

system line insulation. Pipe for cooling system lines must be insulated as specified in § 150.0(i)2A. Distribution it heating systems or hot water systems must meet the requirements in TABLE 120.3-A."

lation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Illation exposed to weather must be installed with a cover suitable for cutdoor service. For example, protected by onted carvas, or plastic cover. The cover must be water retardant and provide shielding from solar radiation that can

§ 110.4(a):

resistance heating.\*

Piping. Any pool or spa heating equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.

Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.

Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.

Directional inlets and time switches for pools. Pools must 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.

Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.

Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.\*

§ 150.0(k)6A:

§ 150.0(k)3C:

§ 150.0(k)3B:

Infired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.

system line insulation. For domestic hot water system piping, whether buried or unburied, all of the following must be requirements of TABLE 120.3-A: the first 5 feet of hot and cold water pipes from the storage tank; all piping with a corresponding system regardless of the pipe diameter; or larger; all piping associated with a domestic hot water recirculation system regardless of the pipe diameter; or to storage tank or between tanks; piping buried below grade; and all hot water pipes from the heating source to

Space must have a hole for the placement of a static pressure probe (HSFF), or a procession of nominal cooling vapuory, space must have a hole for the placement of a static pressure probe (HSFF), or a procession and placement of a static pressure probe (HSFF), or a procession and diagnostic testing, in accordance with supply plenum. The space conditioning system must also demonstrate airflow ≥ 350 CFM per ton of nominal cooling vapuory, supply plenum. The space conditioning system must also demonstrate airflow ≥ 350 CFM per ton of nominal cooling, in accordance with Reference Residential Appendix RA3.3. This applies to both single zone central forced air systems and every zone for zonally controlled central forced air systems.

Ventilation for Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2. Neither window operation nor continuous operation of central forced air system air handlers used in central fan integrated ventilation systems are permissible methods of providing whole-building ventilation.

Field Verification and Diagnostic Testing. Whole-building ventilation airflow must be confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.7.

2016 Low-Rise Residential Mandatory Measures Summary vstem Sizing and Air Filter Grille Sizing. Space conditioning systems that use forced air ducts to supply cooling.

§ 150.0(j)1:

Rise Residential Mandatory Measures Summary

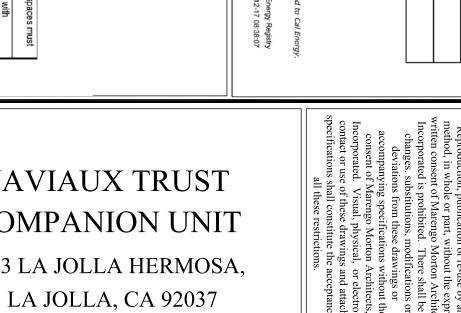
liquid line filter driers if required, as specified by

§ 150.0(j)2A:

§ 110.8(i): § 110.8(j):

NAVIAUX TRUS
COMPANION UN
5623 LA JOLLA HERMC
LA JOLLA, CA 9203

REVISIONS A Coastal Revision - 01/15/2020 B C	NAVIAUX TRUS COMPANION UN 5623 LA JOLLA HERMO LA JOLLA, CA 9203



spaces must with	ed to Cal Energy. Energy Registry 12-17 08:38:07								
NAVIAUX TRUST COMPANION UNI									
5623 LA JOLLA HERMOSA, LA JOLLA, CA 92037									

ady Buildings:	ż	Ď	)6A:	ğ,	Ĕ	)3D:	30:	)3B.	)3A:	)ZL:	37.50	)2J:	-	
dings:	ii. Lighting installed in corridors and stainwells must be controlled by occupant sensors that reduce the lighting power in each space by at least 50 percent. The occupant sensors must be capable of turning the light fully on and off from all designed paths of ingress and egress.	Interior Common Areas of Low-rise Multi-Family Residential Buildings. In a low-rise multifamily residential building where the total interior common area in a single building equals more than 20 percent of the floor area, permanently installed lighting in that building must:  i Common area in a single building equals more than 20 percent of the floor area, permanently installed lighting in that building must:	Interior Common Areas of Low-rise Multi-Family Residential Buildings. In a low-rise multifamily residential building where the total interior common area in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that building must be high efficacy luminaires and controlled by an occupant sensor.	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.	Internally illuminated address signs. Internally illuminated address signs must comply with § 140.8; or must consume no more than 5 watts of power as determined according to § 130.0(c).	Residential Outdoor Lighting. Outdoor lighting for residential parking lots and residential carports with a total of eight or more vehicles per site must comply with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7, and 141.0.	Residential Outdoor Lighting. For low-rise residential buildings with four or more dwelling units, outdoor lighting not regulated by § 150.0(k)3B or § 150.0(k)3D must comply with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.	Residential Outdoor Lighting. For low-rise multifamily residential buildings, outdoor lighting for private patios, entrances, balconies, and porches; and outdoor lighting for residential parking lots and residential carports with less than eight vehicles per site must comply with either § 150.0(k)3A or with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must meet the requirement in item § 150.0(k)3Ai (ON and OFF switch) and the requirements in either item § 150.0(k)3Aii (photocell and motion sensor) or item § 150.0(k)3Aiii (photo control and automatic time switch control, astronomical time clock, or EMCS).	Interior Switches and Controls. Undercabinet lighting must be switched separately from other lighting systems.	Interior Switches and Controls. Dimmers or vacancy sensors must control all luminaires required to have light sources compliant with Reference Joint Appendix JA8, except luminaires in closets less than 70 square feet and luminaires in hallways.*	Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces must be controlled by a vacancy sensor.	2016 Low-Rise Residential Mandatory Measures Summary	
DOCUMENT - Ci	PHASE CONSTRUCTI					C		REVISIONS  A Coastal Revision - 01/15/2020		(	CO 523	M L	IP 4.	AUX TRUST PANION UNIT
$\mathcal{P}$							,				J	LΑ	J(	OLLA, CA 92037

				9	her	ıst			
							_		
)	В	A Coastal Revision - 01/15/2020	REVISIONS		C	OM	PAN	X TI ION La he	UN
		20				ΤΔ	IOLL	$\Delta$	9203

	¥	e		
A Coastal Revision - 01/15/2020 B C	DEVISIONS	COM 5623 LA	TAUX PANIC JOLLA JOLLA,	ON UN