BUILDING ENERGY ANALYSIS REPORT PROJECT: 100 El Prado 100 El Prado Ave San Rafael, CA 94903 **Project Designer: Report Prepared by:** Mohamad Nohayli **Job Number:** 162 Date: 4/17/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC – www.energysoft.com.

TABLE OF CONTENTS

Cover Page	1
Table of Contents	2
Form NRCC-ELC-E Electrical Power Distribution	3
Form NRCC-ENV-E Envelope Component Approach	7
Form NRCC-LTI-E Indoor Lighting	13
Form NRCC-MCH-E Mechanical Systems	21
Form NRCC-PLB-E Domestic Water Heating System	31
HVAC System Heating and Cooling Loads Summary	37

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii

Project Name:	100 El Prado	Report Page:	(Page 1 of 4)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

A. GEN	A. GENERAL INFORMATION								
			02	Climate Zone	2				
01	Project Location (city)	San Rafael	03	Occupancy Types Within Project:	All Other OccupanciesGrocerySupport AreasWarehouse				

B. PROJECT SCOPE This table includes electrical systems that are within the scope of the permit application

this table includes electrical systems that are within the scope of the permit application.									
01	02	03	04	05	06	07			
Electrical Service Designation/ Description	Scope of Work ¹	Rating ² (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a) ³	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy			
Main	Add/Alt to feeders and branch circuits only	50			Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/160.3, 130.1/160.5, and 130.3/160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.				

 $^{^{1}}$ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0272 Report Generated: 2023-04-17 13:58:00

 $^{^2}$ If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

³ Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	100 El Prado	Report Page:	(Page 2 of 4)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	Compliance Results
Yes	AND	Yes	AND	Yes	AND	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This section does not apply to this project.

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This section does not apply to this project.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Byiic.

thousands compliance with 150.5(c), 160.6(c). For alternations, only the alternations action strate compliance per 141.6(b)21 m/ 160.2(b)450mc.									
01	02	03	04	05					
Electrical Service Combined Voltage Drop on Installed Feeder/Branch	Location of Voltage Drop	Sheet Number for Voltage Drop	Field Ins	spector					
Designation/Description	Circuit Conductors Compliance Method	Calculations ¹	Calculations in Construction Documents	Pass	Fail				

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE							N	RCC-ELC-E
Project Name:	<u> </u>							
Project Address:	100 El Prado Ave Date Prepared:							4/17/2023
H. VOLTAGE DROP								
Main	×	Voltage drop less than 5%		Permitted by CA Elec Code (Exception to 130.5(c))*	Attached			
* NOTES: If "Permitted by CA Elec	Code	*" is selected under Com	plian	ce Method above, please	e indicate where the exception a	pplies in the space provided below.	,	
¹ FOOTNOTES: Voltage drop calcul if applicable. If calculations will be						wed by the Authority Having Jurisd	iction. Select	"attached"
I. CIRCUIT CONTROLS FOR 120	-\/OI	F RECEDTACLES AND C	ONT	BOLLED BECEDTACLES				
This section does not apply to this			.0111	NOLLED RECEI FACELS				
J. ELECTRIC READY BUILDINGS								
This section does not apply to this	proje	ct.						
K. DECLARATION OF REQUIRED) CER	TIFICATES OF INSTALL	ATIC	N	,			
				Form/	Title			
NRCI-ELC-E - Must be submitted for	or all b	ouildings						

Registration Number: Documentation Software: EnergyPro Generated Date/Time:

Report Version: 2022.0.000

Compliance ID: EnergyPro-50207-0423-0272 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:00

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	100 El Prado	Report Page:	(Page 4 of 4)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

DOCU	MENTATION AUTHOR'S DECLARATION STATEMENT	
I certif	fy that this Certificate of Compliance documentation is accurate	and complete.
	ntation Author Name: nad Nohayli	Documentation Author Signature: Mohamad Nohayli
Company	у:	Signature Date: 2023.04.17
Address:		CEA/ HERS Certification Identification (if applicable):
City/Stat	e/Zip:	Phone:
1. 2. 3. 4.	The energy features and performance specifications, materials, components, and materials of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of plans and specifications submitted to the enforcement agency for approval with this I will ensure that a completed signed copy of this Certificate of Compliance shall be reinspections. I understand that a completed signed copy of this Certificate of Compliance	nade available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable nce is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsi	ible Designer Name:	Responsible Designer Signature:
Company	у:	Date Signed: 2023-04-17
Address:		License:
City/Stat	e/Zip:	Phone:

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Schema Version: rev 20220101 Energy CERTIFICATE OF COMPLIANCE

Documentation Software: EnergyPro

NRCC-ENV-E

mixe	ed-use buildings, and 141.0(b)1/ 1	compliance with mandatory requirements i 80.2 for alterations, related to roof, wall and and 141.0/ 180.1/ 180.2 for additions and d	d floc	or assei	nblies. It	s also used to dem	onsti	ate compliance w	ith pr	escriptive requirements in 140.3/
Proje	ect Name:	Report Pag	ort Page: (Pag							
Proje	ect Address:	100 E	l Prac	do Ave	Date Prepa	red:				4/17/2023
Α. Θ	GENERAL INFORMATION									
01	Project Location (city)	San Rafael	05	# of St	ories (Ha	oitable Above Grad	le)			1
02	Zipcode	94903	06	Total 0	Condition	ed Floor Area (ft²)				3315
03	Climate Zone	2	07	Total (Jnconditio	ned Floor Area (ft	²)			0
04	constitutes >= 80% of the condition	(select all that apply): If one occupancy oned floor area, the entire building apply with the provisions of that occupancy	08			udes unconditione least 15 ft. ¹	ed en	closed space(s) > !	5,000	ft ² under a roof with a ceiling
¹ FO	•	nouse • All Other Occupancies ft ² directly under roof with ceiling height > 1 nce with 140.3(c)/170.2(b) is documented in	-			•	•			, , , ,
This	ROJECT SCOPE table specifies project envelope co 141.0(b)1 and 2/ 180.2 for addition	omponents within the permit application de	mons	strating	g complia	nce using the presc	riptiv	ve paths outlined i	in 140	0.3/ 170.2 and 141.0(a)1/ 180.1
arra	· · · · · · · · · · · · · · · · · · ·	consists of (check all that apply)						Componen	t Type	es
	, p3	01						02	- /1	
	New Construction or Newly Cond	itioned Space						Walls		Exterior Opaque Doors
	One or more enclosed space	es > 5,000 ft ² directly under roof with ceilin	g he	ight > 1	L5ft	Roof		Floors		Fenestration/ Glazed Doors ¹
	Addition of conditioned space						П	VA/o II o		Futorior Onomus Doors
	One or more enclosed space	ft	Doof		Walls		Exterior Opaque Doors			
	☐ Addition is <=700 ft ²					Roof		Floors		5
☐ Addition is >700 ft²								Floors		Fenestration/ Glazed Doors ¹
\boxtimes	Alteration of conditioned space					Roof Assembly	\boxtimes	Walls	Ex	terior Opaque Doors NA. for Alts.
	One or more enclosed space and lighting system installed	$s > 5,000 \text{ ft}^2$ directly under roof with ceiling for the first time	heig	ht > 15	ft 🗆	Roofing Material ²		Floors	×	Fenestration

Generated Date/Time:

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0274 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:02

Registration Number:

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	100 El Prado	Report Page:	(Page 2 of 6)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

B. PROJECT SCOPE

 1 FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration.

²Roof recovers and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

	Opaque Env	elope Components	Fenestration	Daylighting Spaces >	Compliance Results		
Roof Assembly	Roofing Materials	Walls	Floors	Doors	renestration	5,000ft ²	Compliance Results
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES
Yes	Yes	Yes			Yes		COIVIPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This section does not apply to this project.

G. RATED ROOFING MATERIAL (COOL ROOF)

This section does not apply to this project.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0274 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:02

Envelope Component Approach

CALIFORNIA	ENIERGY CO	AUSSIVAVAC
LAHEURINIA	LINLLIA I I I	יוג ארכי וועוועוג

	•	•								-		
CERTIFICAT	TE OF COM	PLIANCE										IRCC-ENV-E
Project Na	me:				100 El Prado Re	port F	age:				(1	Page 3 of 6)
Project Add	dress:				100 El Prado Ave D	ate Pre	pared:					4/17/2023
		LY SCHEDULE										
This table alteration		ates compliance	with prescriptive wal	l assembly require	ments in 140.3(a)/	170.2	(a) for new construction	ns, 141.0(a)/ 18	0.1 for a	additions a	nd 141.0(b)1B/ 18	30.2 for
01	U- diante		L. Lingth a municipate.1	Framed	☐ Mass (new only	') <u> </u>	Concrete Sandwich Par	el (new only)	SIPS	5	☐ ICF (new only	['])
01	Indicate	• wan types incit	ided in the project:1	☐ Metal Panels	☐ Metal Building		Spandrel/ Curtain Wall		Stra	w Bale	☐ Log Home (ne	ew only)
			above as "(new only)" Instrated within this to		24, Part 6 requirem	ents f	or alterations. New con	struction and a	dditions	do have re	equirements and	should be
								·				
. FLOOR	ASSEMB	SLY SCHEDULE										
This section	on does no	ot apply to this p	roject.									
J. EXTERI	OR DOO	R SCHEDULE										
This section	on does no	ot apply to this p	roject.									
K. FENES	TRATION	AND GLAZED	DOOR SCHEDULE									
							a)3 for new constructio				or 141.0(b)2A/ 18	30.2 for
alteration	s. Exterior	r doors that are	more than 25% glass i	n a <u>rea are conside</u>	red Glazed Doors a	nd sh	ould be documented on	this table with	fenestro	ation.		
01	In	dicate fenestrat	ion types included in t	he project:1 🛛 🗎	/ertical (alterations)	☐ Vertical (new)	Skylights			Glazed Doors (n	ew only)
¹ FOOTNO	TES: Fene	stration types in	dicated above as "(ne	w only)" do not ha	ıve Title 24, Part 6 ı	equire	ements for alterations.	New construction	on and a	dditions do	have requireme	nts and
should be	clicked ab	ove and compli	ance demonstrated wi	thin this table.								
Vertical F	enestratic	on And Glazed D	oors- U-factor, Solar H	leat Gain Coeffici	ent (RSHGC/ SHGC), Visil	ole Transmittance (VT)					
0:	ertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT) O1											
0:	2	\boxtimes		<u> </u>			ion and Glazed Doors ¹			,		
0:	3	\boxtimes	Calculate Area-Weigh						-			
•		. —	1									

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0274 Report Generated: 2023-04-17 13:58:02

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	100 El Prado	Report Page:	(Page 4 of 6)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

K. FENESTRA	FENESTRATION AND GLAZED DOOR SCHEDULE																				
Vertical Fene	stration And Gl	azed Doors- U-factor, So	ar Heat Gain Coefficie	ent (RSHGC/ SHGC	C), Vis	ible Transmittance (VT)															
04	05	06	07	08		09	10	11	12	13											
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Perf	Calculation Method for formance Values per Design ²	Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft ²											
		Nonracidantial/	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D		§110.6 Defaults	U-factor (max)	0.55	0.55												
W1	Fixed window	Relocatable 1 CZ: : New			Ove	Overhang/ Slats used for	(R)SHGC (max)	0.67	0.67	100											
							RSHGC	VT (min)	0.8	0.804											
		Nonresidential/		Table		<u>§110.6</u> Defaults	U-factor (max)	0.55	0.55												
W2	Fixed window	Relocatable 1 CZ: : New	Table 140.3-B/C/D	140.3-B/C/D													Overhang/ Slats used for	(R)SHGC (max)	0.67	0.67	57
						RSHGC	VT (min)	0.8	0.804												
		d window Relocatable 1 CZ: : New Table 140.3-B/C/D	Table		<u>§110.6</u> Defaults	U-factor (max)	0.55	0.55													
W3	Fixed window		Table 140.3-B/C/D	140.3-B/C/D		Overhang/ Slats used for	(R)SHGC (max)	0.67	0.67	100											
						RSHGC	VT (min)	0.8	0.804												

¹FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101

²The NA6 Default Calculation can only be used for alterations or dwelling units in buildings with <= 3 habitable stories. Alterations are limited to 200ft² of site built glazing and dwelling units are limited to 250ft² or 5% of conditioned floor area. If the fenestration does not meet these conditions, the only options for determining fenestration values are NFRC Certification or the Default Tables in 110.6.

³ Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an affect on the RSHGC. If an overhang does not meet this requirement, the affect of the overhang will be ignored.

⁴Projecting includes casement and awning windows.

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	100 El Prado	Report Page:	(Page 5 of 6)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

K. FENESTRATION AND GLAZED DOOR SCHEDULE						
Area-Weighted Average U-factor, SHGC, VT Compliance Calculation for Vertical Fenestration And Glazed Doors						
01	02	03	04	05		
Product Performance Unit	Total Area of Fenestration (ft ²)	Area-weighted Calcul	Compliance Results Using Area-Weighted			
Froduct Feriormance offic	lotal Area of Fellestration (it.)	Required	Designed	Calculation Option		
U-Factor	257	0	0	COMPLIES		
(R)SHGC	257	0	0	COMPLIES		
VT	257	0	0	COMPLIES		

L. DAYLIGHT IN LARGE ENCLOSED SPACES

This section does not apply to this project.

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title

NRCI-ENV-01-E - Must be submitted for all buildings

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Form/Title	Systems/Spaces To Be Field Verified
NRCA-ENV-02-F must be submitted for all new, added or altered fenestration.	

O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

Registration Number:

Generated Date/Time:

Schema Version: rev 20220101

Documentation Software: EnergyPro

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0274 Report Generated: 2023-04-17 13:58:02

Envelope Component Approach

	E11ED 614		
CALIFORNIA	FNFRGY (COMIN	/IISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	100 El Prado	Report Page:	(Page 6 of 6)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT				
I certify that this Certificate of Compliance documentation is accurate and complete.				
	Documentation Author Signature: Mohamad Nohayli			
	Signature Date: 2023.04.17			
Address:	CEA/ HERS Certification Identification (if applicable):			
City/State/Zip:	Phone:			

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- 1. The information provided on this Certificate of Compliance is true and correct.
- 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
	Date Signed: 2023-04-17
Address:	License:
City/State/Zip:	Phone:

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0274 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:02

Indoor Lighting

CERTIFICATE OF COMPLIANCE	NRCC-LTI-I
---------------------------	------------

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name:100 El PradoReport Page:(Page 1 of 8)Project Address:100 El Prado AveDate Prepared:4/17/2023

A.	A. GENERAL INFORMATION									
01	Project Location (city)	San Rafael	04	Total Conditioned Floor Area (ft²)	3,315					
02	Climate Zone	2	05	Total Unconditioned Floor Area (ft²)	0					
03	Oscupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade) 1									
• (◆ Grocery ◆ Support Areas ◆ Warehouse ◆ All Other Occupancies									

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Space	Unconditioned Spa	ces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☐ Altered Lighting System	Area Category Method	3315	Area Category Method 0	
Total Area of Work (ft²)	3315		0	

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0275 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:03

STATE OF CALIFORNIA

Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	100 El Prado	Report Page:	(Page 2 of 8)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

uny cen on this table says. DOLS NOT CONFELS with Exceptional Conditions. Tejer to Table D. Joi galdance.													
	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)					Compliance Results	
Lighting in	01	02	03	04		05		06	07		08		09
conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+) (See Table J)	Tailored 140.6(c)3 / 170.2(e)4B (+) (See Table K)	=	Total Allowed (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-) (See Table P)	=	Total Adjusted (Watts) *Includes Adjustments		05 must be >= 08 140.6 / 170.2(e)
Conditioned	(See Table 1)	3,092.6	1,015	(See Table II)	=	4,108	≥	4,010	0	=	4010	ŀ	COMPLIES
Unconditioned					=		2			=			
	Controls Compliance (See Table H for Details)											ls)	COMPLIES
	Rated Power Reduction Compliance (See Table Q for Details)										ls)		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0275 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:03

Indoor Lighting

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	100 El Prado	Report Page:	(Page 3 of 8)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	80	09	10				
Name or Item	Complete Luminaire	Modular	Small Watts per How is Wattage Total Number Excluded per			Field In:	spector						
Tag	-	(Track) Fixture	Aperture & Color Change ¹	luminaire ²	determined	of Luminaires	140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail			
FL	FL - 1'x4' Fluorescent 2 Lamp Light	No	NA	40	Mfr. Spec	2	No	80					
PL	PL-Round LED High Bay Light	No	NA	80	Mfr. Spec	45	No	3,600					
SW	SW-4" Downlight Capri R4	No	NA	30	Mfr. Spec	7	No	210					
WS	WS-Wall Sconce	No	NA	60	Mfr. Spec	2	No	120					
		4,010		·									

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls										
01 02										
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field In:	spector							
Manuatory Demand Response 110.12(c)	311ut-011 controls 130.1(c) / 100.3(b)4C	Pass	Fail							

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0275 Report Generated: 2023-04-17 13:58:03

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the *luminaire, not the lamp.*

Documentation Software: EnergyPro

Indoor Lighting

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	100 El Prado	Report Page:	(Page 4 of 8)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

Required >=	= 4,000W subject to multilevel		Whole Building	Auto Time Sw	itch					
Level Controls									•	
04	05	06	07	08	09	10	11	1	2	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Controls / 130.1(b) /	Controls 130.1(b)/	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) /	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
		, ,	, ,		160.5(b)4D	, ,	,	Pass	Fail	
New Storage	Commercial Industrial Storage Area	Readily Accessible	NA: General Ltg <= 0.5W/SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No			
New Retail	Retail Merchandise Sales	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No			
Mech & Electrical Room	Electrical Mechancial Telephone Room	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No			
Service Area	Lounge	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No			
Restroom	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No			
							13			
						Plan Shee	t Showing Day	/lit Zones:		

II. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

		1		1	i e	
01	02	03	04	05	0	6
Area Description	Complete Building or Area Category Primary	Allowed Density	Area (ft²)	Allowed Wattage	Additional Allowa	nce / Adjustment
Area Description	Function Area	(W/ft²)	Alea (It)	(Watts)	Area Category	PAF

Registration Number: Generated Date/Time:

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0275 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:03

Indoor Lighting

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	100 El Prado	Report Page:	(Page 5 of 8)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS											
New Storage	Commercial Industrial Warehouse	210	84	No	No						
New Retail	Grocery Sales	1	2,900	2,900	Yes	No					
Mech & Electrical Room	Electrical Mechancial Telephone Room	0.4	62	24.8	No	No					
Service Area	Lounge	0.55	92	50.6	No	No					
Restroom	Restroom	0.65	51	33.2	No	No					
		3,315	3,092.6	See Tables J,	or P for detail						

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

All areas indicated in Table I as using an additional allowance using the Area Category Method have been included in this table to calculate the additional allowance per Table 140.6-C /170.2-M

Conditioned Spaces

01	02	02 03 04 05 06		07	08	09	10		
Area Description	cription Primary Function Area		Allowed Density (W/ft ² or W/lf or W/unit)	Ltg Area, Length or ATM/Mirror (ft², If or #)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire		Total Design Watts
New Retail	Retail Grocery Sales Decorative Display A 0.35 2900 1015.0		1015.0	PL	80	45	3600		
Total Design Watts	Total Design Watts Calculated Allowance (Watts):								
3600 1015.0		1015.0							
11									
Total Additional Allowan	1015.0								

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0275 Report Generated: 2023-04-17 13:58:03

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC				
Project Name:	100 El Prado	Report Page:	(Page 6 of 8)			
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023			

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0275 Report Generated: 2023-04-17 13:58:03 Schema Version: rev 20220101

Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	100 El Prado	Report Page:	(Page 7 of 8)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title

NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE								
Form/Title	Systems/Spaces To Be Field Verified							
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch; New Storage; New Retail; Mech & Electrical Room; Service Area; Restroom;							
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	New Retail;							
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;							

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0275 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:03

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	100 El Prado Report Page:	(Page 8 of 8)
Project Address:	100 El Prado Ave Date Prepared:	4/17/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT							
I certify that this Certificate of Compliance documentation is accurate and comple	te.						
	Documentation Author Signature: Mohamad Nohayli						
	Signature Date: 2023.04.17						
Address:	CEA/ HERS Certification Identification (if applicable):						
City/State/Zip:	Phone:						
RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:							

- 1. The information provided on this Certificate of Compliance is true and correct.
- 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

· · · · · · · · · · · · · · · · · · ·	
Responsible Designer Name:	Responsible Designer Signature:
	Date Signed: 2023-04-17
Address:	License:
City/State/Zip:	Phone:

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0275 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:03

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

-			
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
This document is used to demonstrate compliance for path outlined in 140.4, or 141.0(b)2 for alterations.	or mechanical systems that are within the	escope of the permit application and are a	emonstrating compliance using the prescriptive
Project Name:	100 El Prado	Report Page:	(Page 1 of 10)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023
	,		

A. GENERAL INFORMATION										
01	Project Location (city)	San Rafael	04	Total Conditioned Floor Area	3315					
02	Climate Zone	2	05	Total Unconditioned Floor Area	0					
03	03 Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade) 1									
• (◆ Grocery ◆ Support Areas ◆ Warehouse ◆ All Other Occupancies									

B. PROJECT SCOPE This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01 02 03 Wet System Components **Dry System Components** Air System(s) \boxtimes **Heating Air System** Water Economizer Air Economizer M Cooling Air System П **Electric Resistance Heat** Pumps \boxtimes **System Piping Mechanical Controls** Fan Systems Mechanical Controls (existing to remain, altered \boxtimes \boxtimes **Cooling Towers** Ductwork (existing to remain, altered or new) or new) \boxtimes Chillers Ventilation Zonal Systems/ Terminal Boxes **Boilers**

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0273 Report Generated: 2023-04-17 13:58:00

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

Compliance ID: EnergyPro-50207-0423-0273

Report Generated: 2023-04-17 13:58:00

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	100 El Prado	Report Page:	(Page 2 of 10)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(I), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)	(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
	Mandatory Measures Compliance (See Table Q for Details)										,	COMP	LIES		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

0.7					
01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
Heat Pump	2	Single zone	New/ Addition		

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Schema Version: rev 20220101

Mechanical Systems

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	100 El Prado	Report Page:	(Page 3 of 10)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

F. HVAC SYSTEM	. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)									
Dry System Equi	Ory System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)									
01	02	03	04	05	06	07	08	09	10	11
			Smallest Size Available ¹ 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
	Name or Item Tag Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20		Heating Output ^{2,3}			Cooling Output ^{2,3}		Load Calculations ^{3,4}	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
Heat Pump	Unitary Heat Pumps	Air-cooled, split (3 phase)	NA: Load Controls	124.91	90	0	142.88	80	51.57	163.16

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.

 $^{^4}$ Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry System Equip	ry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)							
01	02	04	05	06	07	08	09	
			Heati	ng Mode	Cooling Mode			
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
Heat Pump	>=65,000 and <135,000		СОР	3.4	3.2	EER IEER	11 14.1	12.2 11.7

G. PUMPS

This section does not apply to this project.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0273 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:00

²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

Documentation Software: EnergyPro

Mechanical Systems

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	100 El Prado	Report Page:	(Page 4 of 10)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	Heat Pump	Quantit Y	2	Fan System Status	New	System Zoning	all other system s	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	6,000	Site Elevation	40	Economizer	NA: Special OA filtration
01	02	03			04	ļ			05	06	07	08	09	10	11
				,			,				Allow	/ance		Design	
Fan Name or Item Tag	Fan Type	Qty		Component				Airflow through Component (%)	Water Gauge (w.g)	Compone nt Allowance	Fan Allowance (watt/cfm)	Innut	Motor Nameplate Horsepower	Design Electrical Input Power (kW)	
			Base	Allowance for	system se	rving spa	ces <=6 f	loors away	3,000		696		Manufactu		
SF	Supply	2	M	MERV 13-16 Filter upstream of thermal conditioning equipment Hydronic/DX cooling coil or heat pump coil		3,000		417	Manufactu rer provided			0.89			
						3,000		417		provided					
					Fan System All	owance (kW) ³	3.	06		m Electrical ut (kW)	1.78				

 $^{^{1}}$ FOOTNOTES: Fans serving spaces with design background noise goals below NC35

² Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.

	, , , , , , , , , , , , , , , , , , , ,									
H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O										
01	02	03	04	05	06	07	08	09	10	11
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)40	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)40	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass

Registration Number: Generated Date/Time:

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0273 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:00

Mechanical Systems

CALIFORNIA	ENIEDCY CON	AN ALCCION
CALIFORNIA	FNFKGY CON	VIIVIISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	100 El Prado	Report Page:	(Page 5 of 10)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

Fan Energy Index (FEI)							
01	02	03					
Name or Item Tag	FEI Exception	FEI					

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

		1	,				r	
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats 110.2(b) & (c) ¹ , 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
Heat Pump	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	NA: Would increase energy use	Provided

¹FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01		Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces		
02		
03		Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.
Nonresidentia	l and Hotel/ N	Antel Multifamily Common Use Ventilation Systems

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0273 Report Generated: 2023-04-17 13:58:00

Mechanical Systems

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	100 El Prado	Report Page:	(Page 6 of 10)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

J. VENTILATIO	N AND INDOOR AIR QUALITY								
	04	05		06			07		
System Name	Heat Pump	System Design OA CFM Airflow ¹		497		Design Air CFM	0	160.2	0.1(c) 141.0(b)2 and 2(c)21 ²
08	09	10	11	12	13	14	15	1	16
Space Name	Mechanical Ventilation R	Required per 1	20.1(c)3 ³ & 1	60.2(c)3		Exh. \	Vent per 120.1(c)4 & 160.2(c)4	DCV or Sensor Con	trols per 120.1(d)3,
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		0.1(e)3 ⁶ 160.2(c)5D 160.2(c)5D
New Storage	Warehouse	210			31.5	0	0	DCV	NA: Not required per §120.1(d)3
New Storage	warenouse	210			31.3	U	U	Occ Sensor	NA: Not required space type
New Retail	Supermarket	2900			725 0	0	0	DCV	NA: Not required per §120.1(d)3
New Retail	Supermarket	2900			723		U	Occ Sensor	NA: Not required space type
Mech & Electrical	All others	62			0	0	0	DCV	NA: Not required per §120.1(d)3
Room	All others	02					U	Occ Sensor	NA: Not required space type
Service Area	All others	92			13.8	0	0	DCV	NA: Not required per §120.1(d)3
Service Area	All others	92			13.8		U	Occ Sensor	NA: Not required space type
Restroom	Toilet, private	51			0	0	0	DCV	NA: Not required per §120.1(d)3
ivestroom	ionet, private	31					0	Occ Sensor	NA: Not required space type

Registration Number:

Generated Date/Time:

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0273 Report Generated: 2023-04-17 13:58:00

Documentation Software: EnergyPro

Mechanical Systems

California energy commission

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	100 El Prado	Report Page:	(Page 7 of 10)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

J. VENTILATION AND INDOOR AIR QUALITY						
	17	Total System Required Min OA CFM	770	18	Ventilation for this System Complies?	Yes

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

⁶ 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

Multifamily Dwelling Unit Ventilation Systems									
	Check the box	eck the box if the system is using continuous ventilation to meet the ventilation requirements per 160.2(b)2Aivb2							
19	20	21	22	23	24	25	26	2	7
Space Name	Mechanical Ventilation Required per 120.1(b) & 160.2(b)2		160.2(b)2	Ventilation per Design					
Space Name or Item Tag	Conditioned Floor Area (ft²)	# of Bedrooms	# of Dwelling Units	Required Min OA CFM ¹	Supply Air CFM	Exhaust CFM	Local Exhaust	Air Filtration per 12	20.1(c) & 160.2(b)1
28	Is this a balanced system ⁴			29		Meeting Outside Air Requiren	nents?		

 $^{^1}$ FOOTNOTES: Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-50207-0423-0273

Report Generated: 2023-04-17 13:58:00

² Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

⁴ See Standards Tables 120.1-A and 120.1-B.

⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

² Kitchen range hood will be verified per NA7.18.1 to confirm model is rated by HVI or AHAM.

³ Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

⁴ A balanced ventilation system provides ventilation airflow to each dwelling-unit at a rate equal to or greater than the required minimum rate, but not more than twenty percent.

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	100 El Prado Report Page:	(Page 8 of 10)
Project Address:	100 El Prado Ave Date Prepared:	4/17/2023

K. TERMINAL BO	K CONTROLS						
This section does no	This section does not apply to this project.						
L. DISTRIBUTION	(DUCTWORK	and PIPING)					
This table is used to	show complia	nce with mandatory pipe insulation requi	irements found	d in 120.3 and mandatory requirements found in 120.4(g) for duct sealing	J.		
01		weather shall be installed with a cover	suitable for ou	that due to sunlight, moisture, equipment maintenance, and wind. Insulation service. Insulation covering chilled water piping and refrigerant su Class II vapor retarder. All penetrations and joints of which shall be sealed	ction piping located		
Duct Leakage Testii	ng	'					
The answers to the questions below apply to the following duct systems:			NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No			
		Heat Pump	Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	No			
				Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes		
11	No	The scope of the project includes only	duct systems s	serving healthcare facilities			
12	Yes	Duct system provides conditioned air to	o an occupiabl	le space for a constant volume, single zone, space-conditioning system.			
13	Yes	The space conditioning system serves l	ess than 5,000) ft ² of conditioned floor area.			
14	No	The combined surface area of the duct	s is more than	25% of the total surface area of the entire duct system:			
15		The scope of the project includes exter	ıding an existiı	ng duct system, which is constructed, insulated or sealed with asbestos.			
16	No The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.				ough field verification		
17		All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A					
18		All ductwork is an extension of an existing duct system					
19		Ductwork serving individual dwelling unit					
20		< 25 ft of new or replacement space conditioning ducts installed					
21	R-8	Dust Insulation R-value					

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0273 Report Generated: 2023-04-17 13:58:00

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	100 El Prado	Report Page:	(Page 9 of 10)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title

NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Standard Heat Pump;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	Standard Heat Pump;
NRCA-MCH-11-A Automatic Demand Shed Controls	Standard Heat Pump;
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Standard Heat Pump;
NRCA-MCH-18-A Energy Management Control Systems	Standard Heat Pump;

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.				
01	02			
Compliance with Mandatory Measures documented through MCH	Yes	Plan sheet or construction document location		
Mandatory Measures Note Block	163	M-Sheets		

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

 ${\sf CA\ Building\ Energy\ Efficiency\ Standards\ -2022\ Nonresidential\ Compliance}$

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0273 Report Generated: 2023-04-17 13:58:00

Mechanical Systems

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	100 El Prado	Report Page:	(Page 10 of 10)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.				
Company:	Signature Date: 2023.04.17			
Address:	CEA/ HERS Certification Identification (if applicable):			
City/State/Zip:	Phone:			
RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.	pansibility for the building design or system design identified on this Cortificate of Compliance (responsible designer)			

- 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

· · · · · · · · · · · · · · · · · · ·						
Responsible Designer Name:	Responsible Designer Signature:					
	Date Signed: 2023-04-17					
Address:	License:					
City/State/Zip:	Phone:					

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0273 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:00

CALIFORNIA ENERGY COMMISSION

CERTIFICA	ATE OF COMPLIANCE							NRCC-PLB-E
alteratio	ns, for domestic water heating sco	pliance for nonresidential occupancie pes using the prescriptive path. For h requirements 180.1 for additions and	igh-rise residential an	d hotel/motel occ		•	-	
Project N	ame:		100 El Prado Report Pa	ge:				(Page 1 of 6)
Project A	ddress:	100	El Prado Ave Date Prep	ared:				4/17/2023
A. GENE	ERAL INFORMATION							
01	Project Location (city)	San Rafael	02	Clima	te Zone		2	
03	Occupancy Types Within Projec	t (select all that apply):	Į.					
• Grocer	ry • Support Areas • Warehouse	All Other Occupancies						
B. PROJ	ECT SCOPE							
170.2(d)	and 141.0(a)/ 180.1, or 141.0(b)2	systems that are within the scope of N / 180.2 for additions or alterations. ented on the NRCC-MCH compliance	Solar water heating s				· ·	
	01			02			03	
	My project consists of (ch	neck all that apply):	System Type ^{1,2}			System Components		
	v system (DHW system being instal structed building)	led for the first time in newly	Individual System (serving nonresidential spaces)			□ Equipment	☑ Distribution	□ Controls
☐ Syst	em Alteration (equipment, distrib	ution or controls)				☐ Equipment	☐ Distribution	☐ Controls
² Dwellin	g units refers to hotel/motel guest	or other non-central systems used to s trooms and units in a multifamily res units are considered "Central System	idential occupancy.	·	red individual .	systems.		
c. com	PLIANCE RESULTS							
		It into the compliance document is co the table indicated as not compliant	= -	ating requiremen	ts. If this table	says "DOES NOT	COMPLY" or "COM	PLIES with
	01	02	03			(04	
Dor	mestic Hot Water Equipment	Distribution Systems	Cor	trols	_	Complian	nce Results	_
	Table F	Table G	Tab	le H		Compilar		
	Voc	Voc	V	Δς.		COM	1DLIES	

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

 ${\sf CA\ Building\ Energy\ Efficiency\ Standards\ -2022\ Nonresidential\ Compliance}}$

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0272 Report Generated: 2023-04-17 13:58:00

CALIFORNIA	ENIERGY CO	MANAISSION
CALIFORNIA	FINERUT L.U	IVIIVIISSIUIV

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	100 El Prado Report Page:	(Page 2 of 6)
Project Address:	100 El Prado Ave Date Prepare	d : 4/17/2023

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

	03 04			05		06				
System Name	50 Gallon Electric	Exception to 140.5(c)/ 170.2(d)3				Capacity-weighted Average Efficiency %				
07	08	09		10	11	12	13	14	15	
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss	
50 Gallon Electric	Consumer Rated Electric Storage	50	20,000	FHR >=75	0.93	0.93	UEF			

¹FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18			\boxtimes	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19			\boxtimes	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20			\boxtimes	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21				School buildings < 25,000 ft ² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0272 Report Generated: 2023-04-17 13:58:00

Domestic Water Heating System CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE				
Project Name:	100 El Prado	Report Page:	(Page 3 of 6)	
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023	

G. DOMES	STIC HOT W	ATER DIS	TRIBUTION SYS	TEM				
1				onresidential occupancies with dis 0.3(c), 160.4, 170.2(d).	stribution require	ments in 120.3 ar	nd 140.5. For multifamily and hoto	el/motel occupancies,
Mandatory	y Pipe Insulat	ion All O	ccupancies					
13		P p lr P	iping that penetra enetrates metal f nsulation shall abo iping installed in insulation Installat	ates framing members shall not b raming shall use grommets, plugs ut securely against all framing me interior or exterior walls shall not ion (QII) as specified in the Refere with a minimum of 1 inch of wall	e required to have, wrapping or others be required to hence Residential A	re pipe insulation ner insulating mat ave pipe insulatio Appendix RA3.5.	ements in Table 160.4-A (see blow for the distance of the framing peterial to assure that no contact is a in if all of the requirements are many	enetration. Piping that made with the metal framing. et for compliance with Quality
14	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated							
15	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.							
				TABLE 120.3-A / 16	0.4-A PIPE INSU	JLATION THICKN	NESS	
			Conductivity				Nominal Pipe Diameter (in)	
Fluid Tem	nperature Rar	e Range (°F) Range (Btu-in Insulation Mean Ra		Insulation Mean Rating Temp (°F)	< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			per °F)				Minimum Insulation Required	
	105-140		0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-50207-0423-0272 Report Generated: 2023-04-17 13:58:00

CALIFORNIA	FNFRGV	COMM	NISSIUN

CERTIFICATE	OF COMPLIAN	CE		NRCC	-PLB-E
Project Nam	ne:			100 El Prado Report Page: (Page	4 of 6)
Project Add	ress:			100 El Prado Ave Date Prepared: 4/17	7/2023
H. DOMES	STIC HOT WA	TER CONTROL	.S		
		onstrate compli rements in 160.		rol requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also .	
	Yes	No	Not Applicable	Requirement	
01				Construction documents require manufacturer certification that service water-heating systems are equipped with automati temperature controls capable of adjusting temperature settings per 110.3(a).	С
02			×	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by Californi Plumbing Code 613.0.	ia
03			×	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3 (c)2 unless systems serves healthcare facility.	
04			×	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b) additions.	3 for
05			×	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).	
06			×	 Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h. 	
07			×	 Boiler combustion air fans with motor >= 10 hp shall meet one of the following The fan motor shall be driven by a variable speed drive OR The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of design air volume. 	f the
08			×	Newly installed boilers with an input capacity {d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% s maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustic control linkage or jack shaft is prohibited.	n air
L DECLAR	ATION OF SE	OLUBED CEST	IFICATEC OF	NCTALLATION	
I. DECLAR	ATION OF RE	QUIRED CERT	IFICALES OF I	NSTALLATION	
				Form/Title	
NRCI-DI R-E	- Must he sub	mitted for all h	uildings		

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000
Schema Version: rev 20220101

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			
Project Name:	100 El Prado	Report Page:	(Page 5 of 6)
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0272 Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:00

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE				
Project Name:	100 El Prado	Report Page:	(Page 6 of 6)	
Project Address:	100 El Prado Ave	Date Prepared:	4/17/2023	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT							
certify that this Certificate of Compliance documentation is accurate and complete.							
Documentation Author Name:	Documentation Author Signature:						
Mohamad Nohayli	Mohamad Nohayli						
Company:	Signature Date:						
	2023.04.17						
Address:	CEA/ HERS Certification Identification (if applicable):						
City/State/Zip:	Phone:						
RESPONSIBLE PERSON'S DECLARATION STATEMENT							
I certify the following under penalty of perjury, under the laws of the State of California:							
1. The information provided on this Certificate of Compliance is true and correct.							
2 Lam eligible under Division 3 of the Rusiness and Professions Code to accept re	espansibility for the huilding design or system design identified on this Certificate of Compliance (responsible designer)						

- 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

	solution and the designed copy of this certificate of compliance is required to the building owner at occupancy.				
Responsible Designer Name:	Responsible Designer Signature:				
	Date Signed:				
	2023-04-17				
Address:	License:				
City/State/Zip:	Phone:				

Registration Number: Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2022.0.000 Compliance ID: EnergyPro-50207-0423-0272
Schema Version: rev 20220101 Report Generated: 2023-04-17 13:58:00

Project Name 100 El Prado						Date	7/2023
System Name						Floor	
Heat Pump						(3,315
ENGINEERING CHECKS	T	SYSTEM LOAD			T.		
Number of Systems	2		COIL	COOLING P	EAK	COIL H	G. PEAK
Heating System			CFM	Sensible	Latent	CFM	Sensible
Output per System	90,000	Total Room Loads	5,932	110,107	104,975	489	18,87
Total Output (Btuh)	180,000	Return Vented Lighting		0		_	
Output (Btuh/sqft)	54.3	Return Air Ducts		5,505		_	94
Cooling System		Return Fan		0			
Output per System	90,000	Ventilation	497	7,657	-12,121	497	21,37
Total Output (Btuh)	180,000	Supply Fan		6,069		_	-6,06
Total Output (Tons)	15.0	Supply Air Ducts		5,505			94
Total Output (Btuh/sqft)	54.3						
Total Output (sqft/Ton)	221.0	TOTAL SYSTEM LOAD		134,844	92,854		36,06
Air System							
CFM per System	3,000	HVAC EQUIPMENT SELECTION					
Airflow (cfm)	6,000	Standard Heat Pump		142,880	40,967		124,91
Airflow (cfm/sqft)	1.81						
Airflow (cfm/Ton)	400.0						
	8.3%	T. 4.1 A 11 . 4. 10 . 4 6 4 4		142,880	40,967		124,91
Outside Air (%)	1	Total Adjusted System Output		142,000	40,307		12 1,0 1
	0.15	(A.E. + 16 B. + B. + E. +		142,000	40,907		121,01
Outside Air (cfm/sqft)	0.15	(A.E. + 16 B. + B. + E. +		142,000	Jul 2 PM		·
Outside Air (cfm/sqft) Note: values above given at ARI	0.15	(Adjusted for Peak Design conditions)	of Heating	·	·		·
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHRO	0.15 conditions OMETRICS	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of		·	·		·
Outside Air (cfm/sqft) Note: values above given at ARI	0.15	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions)	of Heating	·	·		·
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHRO 30 °F	0.15 conditions OMETRICS	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of		·	·		·
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHRO 30 °F Outside Air	0.15 conditions OMETRICS 67 °F	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions)	106 °F	·	·		
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHRO 30 °F	0.15 conditions OMETRICS	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) 105 °F Coil Supply Far	106 °F	·	·	11	
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHRO 30 °F Outside Air	0.15 conditions OMETRICS 67 °F	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions)	106 °F	·	Jul 2 PM	-	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHRO 30 °F Outside Air	0.15 conditions OMETRICS 67 °F	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) 105 °F Coil Supply Far	106 °F	·	Jul 2 PM	100M	Jan 1 AN
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHRO 30 °F Outside Air	0.15 conditions OMETRICS 67 °F	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) 105 °F Coil Supply Far	106 °F	·	Jul 2 PM	ом	Jan 1 AN
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm	0.15 conditions OMETRICS 67 °F	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) 105 °F Coil Supply Far	106 °F	·	Jul 2 PM	ом	Jan 1 Af
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm	0.15 conditions OMETRICS 67 °F	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) 105 °F Coil Supply Far	106 °F	·	Jul 2 PM	ом	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm	0.15 conditions OMETRICS 67 °F Heating	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) Topic of the conditions of	106 °F →	Peak)	Jul 2 PM	ом	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm 70 °F COOLING SYSTEM PSYCHR	O.15 conditions OMETRICS 67 °F Heating	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of Supply Far 6,000 cfm (Airstream Temperatures at Time of Supply Far 6,000 cfm)	106 °F → of Cooling	Peak)	Jul 2 PM	ом	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm 70 °F COOLING SYSTEM PSYCHR	O.15 conditions OMETRICS 67 °F Heating	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of Supply Far 6,000 cfm (Airstream Temperatures at Time of Supply Far 6,000 cfm)	106 °F →	Peak)	Jul 2 PM	ом	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm	O.15 conditions OMETRICS 67 °F Heating	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of Supply Far 6,000 cfm (Airstream Temperatures at Time of Supply Far 6,000 cfm)	106 °F → of Cooling	Peak)	Jul 2 PM	ом	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm 70 °F COOLING SYSTEM PSYCHR	O.15 conditions OMETRICS 67 °F Heating	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of Supply Far 6,000 cfm (Airstream Temperatures at Time of Supply Far 6,000 cfm)	106 °F → of Cooling	Peak)	Jul 2 PM	ом	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm 70 °F COOLING SYSTEM PSYCHR 89 / 64 °F	O.15 conditions OMETRICS 67 °F Heating	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) Supply Far 6,000 cfm (Airstream Temperatures at Time of the conditions) (Airstream Temperatures at Time of the conditions)	106 °F → of Cooling	Peak)	Jul 2 PM	DOM 7	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm 70 °F COOLING SYSTEM PSYCHR 89 / 64 °F	O.15 conditions OMETRICS 67 °F Heating	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) Supply Far 6,000 cfm (Airstream Temperatures at Time of the conditions)	106 °F → of Cooling	Peak)	Jul 2 PM	OOM 7	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm 70 °F COOLING SYSTEM PSYCHR 89 / 64 °F	O.15 conditions OMETRICS 67 °F Heating	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) Supply Far 6,000 cfm (Airstream Temperatures at Time of the conditions) (Airstream Temperatures at Time of the conditions)	106 °F → of Cooling	Peak)	Jul 2 PM	DOM 7	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm 70 °F COOLING SYSTEM PSYCHR 89 / 64 °F	O.15 conditions OMETRICS 67 °F Heating	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) Supply Far 6,000 cfm (Airstream Temperatures at Time of the conditions) (Airstream Temperatures at Time of the conditions)	106 °F → of Cooling	Peak)	Jul 2 PM	57 DOM	Jan 1 Al
Outside Air (cfm/sqft) Note: values above given at ARI HEATING SYSTEM PSYCHR 30 °F Outside Air 497 cfm TO °F COOLING SYSTEM PSYCHR 89 / 64 °F Outside Air 497 cfm	O.15 conditions OMETRICS 67 °F Heating	(Adjusted for Peak Design conditions) TIME OF SYSTEM PEAK (Airstream Temperatures at Time of the conditions) Supply Far 6,000 cfm (Airstream Temperatures at Time of the conditions) (Airstream Temperatures at Time of the conditions)	106 °F → of Cooling	Peak)	Jul 2 PM	57 DOM	Jan 1 Al