

CERTIFICATE OF COMPLIANCE - LOWRISE MULTIFAMILY MIXED USE PERFORMANCE COMPLIANCE METHOD		LMCC-PRF-01-E
Lowrise Multifamily Mixed Use Performance Compliance Method		(Page 1 of 28)
Project Name:	Multifamily Example	Date Prepared: 2025-06-25

A. General Information					
1	Project Name	Multifamily Example			
2	Run Title	Title 24 Analysis			
3	Project Location	7188 Pleasant Way			
4	City	Rocklin	5	Standards Version	Compliance 2025
6	Zip code	95650	7	Compliance Software (version)	EnergyPro 10.0
8	Climate Zone	11	9	Building Orientation (deg)	0
10	Building Type(s)	• Multifamily 3 stories or less	11	Weather File	CA_Title24_2025_CZ11_RED-BLUFF.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	15
14	Total Conditioned Floor Area in Scope (ft²)	10150	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	1200	17	Fuel Type	Natural gas
18	Is Natural Gas Available per Section 100.1?	Yes	19	Nonresidential Conditioned Floor Area	1280
20	Total # of Stories (Habitable Above Grade)	2	21	Residential Conditioned Floor Area	8870

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B. PROJECT SUMMARY							
Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.							
Building Components Complying via Performance					Building Components Complying Prescriptively		
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	<input type="checkbox"/>	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the LMCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the LMCC-PRF-E).	
	MultiFam	Performance		<input checked="" type="checkbox"/>	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	<input type="checkbox"/>	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	LMCC-LTI-01E is required
	MultiFam	Performance		<input checked="" type="checkbox"/>	Not Included	Outdoor Lighting 140.7 & 170.2(e)	LMCC-LTO-01E is required
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	<input type="checkbox"/>	Performance	Sign Lighting 140.8 & 170.2(e)	LMCC-LTS-01E is required
	MultiFam	Performance		<input checked="" type="checkbox"/>	Not Included	Building Components Complying with Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	<input checked="" type="checkbox"/>	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the LMCC form listed if applicable (i.e. compliance will not be shown on the LMCC-PRF-E.)	
	MultiFam	Performance		<input type="checkbox"/>	Not Included	Electrical Power Distribution 110.11	LMCC-ELC-01E is required
			Battery (see Table F)	<input type="checkbox"/>	Performance	Commissioning 120.8	LMCC-CXR-01E is required
				<input checked="" type="checkbox"/>	Not Included	Solar and Battery 110.10	LMCC-SAB-01E is required

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C1. COMPLIANCE SUMMARY			
COMPLIES*			
	Long-term System Cost (LSC) ¹		Source Energy Use
	Efficiency ² (\$/ft ² -yr)	Total ³ (\$/ft ² -yr)	Total ³ (kBtu/ft ² -yr)
Standard Design	32.85	14.58	6.39
Proposed Design	25.94	8.42	4.8
Compliance Margins	6.91	6.16	1.59
	Pass	Pass	Pass
¹ Long-term System Cost (LSC) is a 30-year present value cost to California's energy system. LSC is not a predicted utility bill. ² Efficiency measures include energy efficiency improvements such as better building envelope and more efficient mechanical equipment ³ Totals include the sum of efficiency measures, solar photovoltaic (PV) measures and battery storage measures			

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C2. LSC ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual LSC Energy Use, \$/ft²-yr)			
COMPLIES			
Energy Component	Standard Design (LSC)	Proposed Design (LSC)	Compliance Margin (LSC)¹
Space Heating	2.49	2.83	-0.34
Space Cooling	5.82	4.9	0.92
Indoor Fans	6.3	3.08	3.22
Heat Rejection	0	0	0
Pumps & Misc.	0.13	0.31	-0.18
Domestic Hot Water	13.73	11.74	1.99
Indoor Lighting	4.38	3.08	1.3
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	32.85	25.94	6.91 (21%)
Photovoltaics	-18.27	-17.52	-0.75
Batteries	---	---	---
TOTAL COMPLIANCE	14.58	8.42	6.16 (42.2%)
¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.			

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C3. LSC ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹			
Non-Regulated Energy Component	Standard Design (LSC)	Proposed Design (LSC)	Compliance Margin (LSC)²
Receptacle	13.77	13.77	---
Process	13.96	13.97	-0.01
Other Ltg	2.09	2.09	---
Process Motors	1.82	1.82	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	46.22	40.07	6.15 (13.3%)
¹ Notes: This table is not used for Energy Code Compliance. ² Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.			

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C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)			
COMPLIES			
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)¹
Space Heating	1.1	1.23	-0.13
Space Cooling	0.82	0.68	0.14
Indoor Fans	1.56	0.74	0.82
Heat Rejection	0	0	0
Pumps & Misc.	0.05	0.12	-0.07
Domestic Hot Water	3.69	3.39	0.3
Indoor Lighting	1.06	0.75	0.31
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	8.28	6.91	1.37 (16.5%)
Photovoltaics	-1.89	-2.11	0.22
Batteries	---	---	---
TOTAL COMPLIANCE	6.39	4.8	1.59 (24.9%)
¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.			

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C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹			
Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)²
Receptacle	3.54	3.54	---
Process	3.23	3.23	---
Other Ltg	0.59	0.59	---
Process Motors	0.46	0.46	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	14.21	12.62	1.59 (11.2%)
¹ Notes: This table is not used for Energy Code Compliance.			
² Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.			

C6. 'ABOVE CODE' QUALIFICATIONS	
<input type="checkbox"/> This project is pursuing CalGreen Tier 1	<input type="checkbox"/> This project is pursuing CalGreen Tier 2

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C7. ENERGY USE SUMMARY						
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	3.2	3.8	-0.6	---	---	---
Space Cooling	9.6	8.3	1.3	---	---	---
Indoor Fans	10.8	4.7	6.1	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	0.2	0.4	-0.2	---	---	---
Domestic Hot Water	21.4	18	3.4	---	---	---
Indoor Lighting	7.9	5.2	2.7	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	53.1	40.4	12.7	0	0	0
Photovoltaics	-43.2	-47.9	4.7	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	9.9	-7.5	17.4	0	0	0
Receptacle	21.7	21.7	0	---	---	---
Process	21.6	21.6	0	---	---	---
Other Ltg	2.9	2.9	0	---	---	---
Process Motors	2.8	2.8	0	---	---	---
ENERGY USE TOTAL	58.9	41.5	17.4	0	0	0

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C8. ENERGY USE INTENSITY (EUI)				
	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI ¹	30.69	26.88	3.81	12.41
NET EUI ¹	17.71	12.48	5.23	29.53
¹ Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.				

D1. EXCEPTIONAL CONDITIONS
<ul style="list-style-type: none"> PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information. Verify project meets the requirements for Vestibules as per Section 120.7(e).

D2. MULTIFAMILY REQUIRED SPECIAL FEATURES
<ul style="list-style-type: none"> IAQ Ventilation System: as low as 0.333333 W/CFM IAQ Ventilation System: supply outside air inlet, filter, and H/ERV cores accessible per RACM Reference Manual IAQ Ventilation System: fault indicator display Insulation below roof deck Non-standard duct location (any location other than attic) Central Heat Pump Water Heater Multifamily: Recirculating with no control (continuous pumping)

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E1. ECC FEATURE SUMMARY
<p>The following is a summary of the features that must be field-verified by a certified ECC Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered LMCI and LMCVs are required to be completed in the ECC Registry.</p> <p>Building-level Verifications:</p> <ul style="list-style-type: none"> • Quality insulation installation (QII) • Indoor air quality ventilation • Enclosure air leakage for each dwelling unit • Kitchen range hood <p>Cooling System Verifications:</p> <ul style="list-style-type: none"> • Minimum Airflow • Verified EER • Verified Refrigerant Charge • Fan Efficacy Watts/CFM <p>Heating System Verifications:</p> <ul style="list-style-type: none"> • Verified HSPF • Verified heat pump rated heating capacity <p>HVAC Distribution System Verifications:</p> <ul style="list-style-type: none"> • Duct leakage testing • Ducts located entirely in conditioned space confirmed by duct leakage testing <p>Domestic Hot Water System Verifications:</p> <ul style="list-style-type: none"> • Multifamily: Drain water heat recovery system

F1. REQUIRED PV SYSTEMS											
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception¹	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
30		Standard (14-17%)	Fixed	none	false	180	Degrees	22	4.85	96	100
¹ See Table D1 for any PV exceptions used.											

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F1B. PV BATTERY BUILDING TYPE(S)		
01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	Conditioned Floor Area (ft²)	Unconditioned Floor Area (ft²)
Events and Exhibits	0	0
Library	0	0
Hotel/Motel	800	1200
Office, Financial Institutions, Unleased Tenant Space, Medical Office Building/Clinic	70	0
Restaurants	0	0
RetailGrocery	1280	0
School	0	0
Warehouse	0	0
Religious Worship	0	0
Sports and Recreation	0	0
Multifamily greater than 3 stories	0	0
None	0	0
<i>*Building Occupancy Types are defined in Section 100.1 of the Energy Code</i>		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)			
01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing ¹	2600	560	21.54
East-Facing ²	960	224	23.33
South-Facing ³	1600	360	22.5
Notes ¹ North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW), ² East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE), ³ South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE), ⁴ West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),			

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G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)			
01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
West-Facing ⁴	640	64	10
Total	5800	1208	20.83
Roof	1280	0	0
Notes ¹ North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW), ² East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE), ³ South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE), ⁴ West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),			

G2B. ROOFING PRODUCT SUMMARY (MULTIFAMILY AND COMMON AREAS)					
01	02	03	04	05	06
Name	Roof Pitch	Roof Rise (x in 12)	Aged Solar Reflectance	Thermal Emittance	SRI
Attic S-5-Parking Garage	Low slope	0	0.1	0.85	N/A
Attic S-6-1st floor Electrical Room	Low slope	0	0.1	0.85	N/A
Attic S-3-2nd Floor Apts	Low slope	0	0.1	0.85	N/A
Attic S-4-2nd Floor Corridors	Low slope	0	0.1	0.85	N/A

G3. ATTIC			
01	02	03	04
Name	Construction	Type	Radiant Barrier
Attic S-5-Parking Garage	Roof-Attic S-5-Parking Garage	Ventilated	Yes
Attic S-6-1st floor Electrical Room	Roof-Attic S-6-1st floor Electrical Room	Ventilated	Yes
Attic S-3-2nd Floor Apts	Roof-Attic S-3-2nd Floor Apts	Ventilated	No
Attic S-4-2nd Floor Corridors	Roof-Attic S-4-2nd Floor Corridors	Ventilated	Yes

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G4. NONRESIDENTIAL AIR BARRIER	
01	02
Building Story Name	Air Barrier
Com-Floor 1	

This Certificate of Compliance is not registered

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G5. OPAQUE SURFACE ASSEMBLY SUMMARY										
01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status¹
					Interior	Exterior				
R-21 Wall w/1 EPS3	Exterior Wall	4,480	Wood	21	N/A	4.17	U-factor	0.0505	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Expanded Polystyrene - EPS - 1 in. R4.2 Composite-1 Gypsum Board - 1/2 in.	N
R-13 Wall5	Exterior Wall	1,320	Wood	13	N/A	N/A	U-factor	0.1015	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-2 Gypsum Board - 1/2 in.	N
Slab On Grade19	Underground Floor	1,280	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
R-13 Wall51	Interior Wall	200	Wood	13	N/A	N/A	U-factor	0.0952	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-2 Gypsum Board - 1/2 in.	N
R-30 Roof Attic22	Roof	1,280	Wood	30	N/A	N/A	U-factor	0.0383	AsphaltShingles0_25In Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite-3 Gypsum Board - 1/2 in.	N
R-38 HP Attic Option B	Ceilings (below attic)	4,000	Wood Framed Ceiling	38	0	0	U-factor	0.0253	Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board	N
¹ Status: N - New, A - Altered, E - Existing										

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G5. OPAQUE SURFACE ASSEMBLY SUMMARY										
01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status ¹
					Interior	Exterior				
R-13 Floor No Crawlspace	Interior Floors	4,000	Wood Framed Floor	13	0	0	U-factor	0.0604	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13 / 2x6 Ceiling Below Finish: Gypsum Board	N
R-0 Floor No Crawlspace	Interior Floors	400	Wood Framed Floor	0	0	0	U-factor	0.1957	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x12 Ceiling Below Finish: Gypsum Board	N
R-30 Roof Attic	Ceilings (below attic)	1,670	Wood Framed Ceiling	30	0	0	U-factor	0.0317	Over Ceiling Joists: R-20.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board	N
Roof-Attic S-5-Parking Garage	Attic Roofs	1,200	Wood Framed Ceiling	0	0	0	U-factor	0.6436	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	N
Roof-Attic S-6-1st floor Electrical Room	Attic Roofs	70	Wood Framed Ceiling	0	0	0	U-factor	0.6436	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	N
Roof-Attic S-3-2nd Floor Apts	Attic Roofs	4,000	Wood Framed Ceiling	13	0	0	U-factor	0.0781	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13.0 / 2x4 Around Roof Joists: R-0.0 insul.	N
¹ Status: N - New, A - Altered, E - Existing										

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G5. OPAQUE SURFACE ASSEMBLY SUMMARY										
01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status ¹
					Interior	Exterior				
Roof-Attic S-4-2nd Floor Corridors	Attic Roofs	400	Wood Framed Ceiling	0	0	0	U-factor	0.6436	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	N
Garage Ext Wall	Exterior Walls	400	Wood Framed Wall	0	0	0	U-factor	0.3609	Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Exterior Finish: 3 Coat Stucco	N
¹ Status: N - New, A - Altered, E - Existing										

G6B. OPAQUE DOOR SUMMARY (MULTIFAMILY AND COMMON AREAS)			
01	02	03	04
Name	Area (ft ²)	Overall U-factor	Status ¹
Entry Door	100	0.5	N
Door	100	0.5	N
¹ Status: N - New, A - Altered, E - Existing			

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G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)								
01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method ¹	Assembly Method	Area (ft ²)	Overall U-factor	Overall SHGC	Overall VT	Status ²
Double Metal Tinted	Vertical fenestration Fixed window N/A	NFRC	Site built	320	0.4	0.32	0.5	N
¹ Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis. ² Status: N - New, A - Altered, E - Existing								

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G7B. FENESTRATION SUMMARY (MULTIFAMILY AND COMMON AREAS)												
01	02	03	04	05	06	07	08	09	10	11	12	13
Fenestration Name	Fenestration Type/ Product Type / Frame Type	Parent Surface	Azimuth	Multiplier	Area (ft ²)	Overall U-factor	U-factor Source	Overall SHGC	SHGC Source	Overall VT	Exterior Shading	Status ¹
Front Windows	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Front Wall	0	1	200	0.3	NFRC	0.23	NFRC	N/A	Standard bug screens	N
Left Windows	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Left Wall	90	1	40	0.3	NFRC	0.23	NFRC	N/A	Standard bug screens	N
Back Windows	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Back Wall	180	1	180	0.3	NFRC	0.23	NFRC	N/A	Standard bug screens	N
Right Windows	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Right Wall	270	1	32	0.3	NFRC	0.23	NFRC	N/A	Standard bug screens	N
Front Windows 2	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Front Wall 2	0	1	200	0.3	NFRC	0.23	NFRC	N/A	Standard bug screens	N
Left Windows 2	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Left Wall 2	90	1	24	0.3	NFRC	0.23	NFRC	N/A	Standard bug screens	N
Back Windows 2	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	BackWall	180	1	180	0.3	NFRC	0.23	NFRC	N/A	Standard bug screens	N
¹ Status: N - New, A - Altered, E - Existing												

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G7B. FENESTRATION SUMMARY (MULTIFAMILY AND COMMON AREAS)												
01	02	03	04	05	06	07	08	09	10	11	12	13
Fenestration Name	Fenestration Type/ Product Type / Frame Type	Parent Surface	Azimuth	Multiplier	Area (ft ²)	Overall U-factor	U-factor Source	Overall SHGC	SHGC Source	Overall VT	Exterior Shading	Status ¹
Right Windows 2	Vertical fenestration Architectural Window - Operable (Multifamily only) N/A	Right Wall 2	270	1	32	0.3	NFRC	0.23	NFRC	N/A	Standard bug screens	N
¹ Status: N - New, A - Altered, E - Existing												

G8. OVERHANG DETAILS						
01	02	03	04	05	06	07
Fenestration Tag/ ID	Azimuth	Depth (ft)	Height from Top of Sill to Overhang (ft)	Right Extent (ft)	Left Extent (ft)	Flap Height
East Windows17	90	6	8.1	6	6	N/A

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)											
01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status ¹
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
Retail Mech. System	Package SZ VAV Heat Pump Air System	1	62.49	0	HSPF2	8.5	57.61	EER2 SEER2	12 14.5	Differential DB	N
¹ Status: N - New, A - Altered, E - Existing											

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H2. DWELLING UNIT HVAC HEATING AND COOLING SYSTEMS												
01	02	03	04	05	06	07	08	09	10	11	12	13
Dwelling Unit Type	Equipment Name	Equipment Type	Quantity	Air Distribution System Name	Fan System name	Heating				Cooling		
						Heat Output at 47	Heat Output at 17	Efficiency Unit	Efficiency	Total Cooling Output	Efficiency Unit	Efficiency
DU-1 1 Bedroom	Heat Pump System 1	Package Terminal Heat Pump N/A	5	Air Distribution System 1	HVAC Fan 1	38,000	32,000	HSPF2	8.2	N/A	EER2 SEER2	13 15
DU-2 Studios	Heat Pump System 1	Package Terminal Heat Pump N/A	10	Air Distribution System 1	HVAC Fan 1	38,000	32,000	HSPF2	8.2	N/A	EER2 SEER2	13 15

H2b. Common Area HVAC Heating and Cooling Systems												
01	02	03	04	05	06	07	08	09	10	11	12	13
HVAC System Name	Equipment Name	Equipment Type	Quantity	Air Distribution System Name	Fan System name	Heating				Cooling		
						Heat Output at 47	Heat Output at 17	Efficiency Unit	Efficiency	Total Cooling Output	Efficiency Unit	Efficiency
Res HVAC1	Heat Pump System 1	Heat pump heating cooling	45	Air Distribution System 1	HVAC Fan 1	570,000	480,000	HSPF2	8.2	N/A	EER2 SEER2	13 15

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY												
01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	Supply Fan				Return / Relief Fan					Status ¹
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
Retail Mech. System	1	326.4	2,400	1.2	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N

¹ Status: N - New, A - Altered, E - Existing

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H3a. MULTIFAMILY / COMMON USE AREA FAN SYSTEMS SUMMARY				
01	02	03	04	05
Name	Type	Power	Power Units	Status
HVAC Fan 1	Fixed speed	0.45	W/cfm	N/A

H3b. MULTIFAMILY / COMMON USE AREA IAQ FAN SYSTEMS SUMMARY					
01	02	03	04	05	06
Name	Type	Airflow (CFM)	Power	Power Units	Status
IAQ Fan 1	Exhaust	60	0.33	W/cfm	N/A
Central Vent Sys 1	Supply	200	0.4	W/cfm	N/A
Central Vent Sys 2	Supply	140	0.4	W/cfm	N/A
Central Vent Sys 3	Supply	300	0.4	W/cfm	N/A

H4. MULTIFAMILY HVAC DISTRIBUTION							
01	02	03	04	05	06	07	08
Name	Type	Duct Ins. R-value Supply	Duct Ins. R-value Return	Duct Location Supply	Duct Location Return	Verified Duct Design Surface Area	
						Supply	Return
Air Distribution System 1	Conditioned space-entirely (Non-Verified)	R-8	R-8	Conditioned Zone	Conditioned Zone	N/A	N/A

H4b. MULTIFAMILY HVAC DISTRIBUTION – ECC VERIFICATION								
01	02	03	04	05	06	07	08	09
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler	Low Leakage Ducts Entirely in Conditioned Space
Air Distribution System 1	Yes	total leakage <= 12.0 or leakage to outdoors <= 6.0	Required	Not Required	Not Required	Credit not taken	Not Required	No

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H5. GENERAL EXHAUST FAN SUMMARY							
01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status ¹
Retail Zone7-EF	1-Retail Zone	2	50	0.02	BHP	No	N
¹ Status: N - New, A - Altered, E - Existing							

H8. SYSTEM SPECIAL FEATURES			
01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n) ¹	Other Special Features and Controls
Retail Mech. System	Package SZ VAV Heat Pump Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential DB
Central HPWH1 - SHW	Service Hot Water	N/A	Fixed Temperature Control
Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the LMCC-MCH-E.			
¹ Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.			

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION						
01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
1-Retail Zone	Retail - Sales	21.76	326.4	100	1280	DCV
S-2-1st Floor Corridors	Residential - Common corridors	2	70	0	400	N/A
S-6-1st floor Electrical Room	General - Unoccupied	0	60	60	70	N/A
S-4-2nd Floor Corridors	Residential - Common corridors	2	70	0	400	N/A

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H10. MULTIFAMILY DWELLING UNIT TYPE CENTRAL / INDIVIDUAL VENTILATION												
01	02	03	04	05	06	07	08	09	10	11	12	13
Dwelling Unit Type	IAQ Option	Central Fan (If applicable)					Individual Fan (if applicable)					
		IAQ Fan Type	Supply Airflow CFM	Supply Fan Efficacy W/CFM	Exhaust CFM	Exhaust Fan Efficacy W/CFM	IAQ Fan Type	Count	Airflow CFM	Fan Efficacy W/CFM	Recovery Efficiency SRE	Recovery Efficiency ASRE
DU-1 1 Bedroom	Central Ventilation System - Supply	Supply	200	0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-2 Studios	Central Ventilation System - Supply	Supply	300	0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY											
01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	MIn.	Min. Ratio	Power	Power Units	Cycles	
1-Retail Zone-Trm	Variable Air Volume No Reheat Box	1	N/A	N/A	2,400	600	0.25	N/A	N/A	N/A	<input type="checkbox"/>

I1. WATER HEATER EQUIPMENT SUMMARY													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value Int/Ext	Standby Loss Fraction	1st Hr. Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition
Instantaneous Electric2	Electricity	Instantaneous	1	1	2.3	kW	0.98	UEF	N/A	N/A	8	N/A	N/A

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12. MULTI-FAMILY WATER HEATING SYSTEM DETAIL							
01	02	03	04	05	06	07	08
System Name	Configuration	Type	Qty in System	Dwelling Unit Distribution Type	Water Heater Name	Solar Heating System	Is Compact Distribution
MF0-CHPWH	Domestic Hot Water (DHW)	Central	1	Standard Distribution System	MF0-CHPWH - heater	N/A	N/A

13. MULTIFAMILY & HOTEL/MOTEL WATER HEATER EQUIPMENT SUMMARY - CHPWH							
01	02	03	04	05	06	07	08
Name	Brand/Model	Number of Compressors	Primary Tank Volume (gal)	Tank Count	Tank R-value	Tank Location	Air Source
MF0-CHPWH	AOSmithCAHP 120 (120 gal)	1	410	1	20	Outside	Outside

15. RECIRCULATION LOOPS					
01	02	03	04	05	06
Water Heating System Name	Number of Recirculation Loops	Loop Insulation Thickness (in)	Recirculation Loop Location	Recirculation Pump Power	Recirculation Pump Power Units
MF0-CHPWH	1	1.5	Conditioned	109.06	Watts

18. WATER HEATING - DRAIN WATER HEAT RECOVERY				
01	02	03	04	05
Dwelling Unit Type	DHW System and DWHR Names	Installation Configuration	Shower Drains	ECC Verification
DU-1 1 Bedroom	MF0-CHPWH - 1 - DWHR-1	Equal Flow	11	Required
DU-2 Studios	MF0-CHPWH - 1 - DWHR-2	Equal Flow	10	Required

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K1. INDOOR CONDITIONED LIGHTING GENERAL INFO					
01	02	03	04	05	06
Occupancy Type ^{1,3}	Conditioned Floor Area ² (ft2)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Retail Merchandise Sales	1280	560	0	0	0
Corridor	800	280	0	0	0
Electrical Mechanical Telephone Room	70	28	0	0	0
Building Totals:	2150	868	0	0	0
¹ See Table 140.6-C ² See LMCC-LTI01--E for unconditioned spaces ³ Lighting information for existing spaces modeled is not included in this table					

K2. INDOOR CONDITIONED LIGHTING SCHEDULE					
Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft ² in offices)					
01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)			
		Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
F-1	Suspended LED	28	See Other Section	30	840
¹ If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.					

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL	
Building Level Controls	
01	02
Mandatory Demand Response 110.12(c)	Shut-Off Controls 130.1(c) & 160.5(b)4C

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NA			NA			
Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)						
03	04	05	06	07	08	09
Area Description	Area Category Primary Function Area	Area Controls 130.1(a) & 160.5(b)4A	Multi-Level Controls 130.1(b) & 160.5(b)4B	Shut-Off Controls 130.1(c) & 160.5(b)4C	Primary Daylighting 130.1(d) & 160.5(b)4D	Secondary Daylighting 140.5(d) & 160.5(b)4D
Corridors	Corridor	Required	Required	Required	NA	NA

L. DWELLING UNIT INFORMATION			
01	02	03	04
Dwelling Unit Name	Dwelling Unit Type	Zone	Zone Group Multiplier
DDU-1 1 Bedroom-(1/5)	DU-1 1 Bedroom	S-1-1st Floor Apts	1
DDU-1 1 Bedroom-(2/5)	DU-1 1 Bedroom	S-1-1st Floor Apts	1
DDU-1 1 Bedroom-(3/5)	DU-1 1 Bedroom	S-1-1st Floor Apts	1
DDU-1 1 Bedroom-(4/5)	DU-1 1 Bedroom	S-1-1st Floor Apts	1
DDU-1 1 Bedroom-(5/5)	DU-1 1 Bedroom	S-1-1st Floor Apts	1
DDU-2 Studios-(1/10)	DU-2 Studios	S-3-2nd Floor Apts	1
DDU-2 Studios-(2/10)	DU-2 Studios	S-3-2nd Floor Apts	1
DDU-2 Studios-(3/10)	DU-2 Studios	S-3-2nd Floor Apts	1
DDU-2 Studios-(4/10)	DU-2 Studios	S-3-2nd Floor Apts	1
DDU-2 Studios-(5/10)	DU-2 Studios	S-3-2nd Floor Apts	1
DDU-2 Studios-(6/10)	DU-2 Studios	S-3-2nd Floor Apts	1
DDU-2 Studios-(7/10)	DU-2 Studios	S-3-2nd Floor Apts	1
DDU-2 Studios-(8/10)	DU-2 Studios	S-3-2nd Floor Apts	1
DDU-2 Studios-(9/10)	DU-2 Studios	S-3-2nd Floor Apts	1
DDU-2 Studios-(10/10)	DU-2 Studios	S-3-2nd Floor Apts	1

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M. DWELLING UNIT TYPES						
01	02	03	04	05	06	07
Name	CFA (ft ²)	Number of Bedrooms	Number in Building	Space Conditioning Systems Assigned	DHW System Name	IAQ Vent Fan Name
DU-1 1 Bedroom	800	1	5	DU-1 1 Bedroom :Heat Pump System 1:Air Distribution System 1:HVAC Fan 1:2:3	MFO-CHPWH	Central Supply
DU-2 Studios	400	0	10	DU-2 Studios :Heat Pump System 1:Air Distribution System 1:HVAC Fan 1:2:3	MFO-CHPWH	Central Supply

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Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Company: EnergySoft	Signature Date:
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: <ol style="list-style-type: none"> The information provided on this Certificate of Compliance is true and correct. 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) 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. 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. I understand that a registered 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, and I will take the necessary steps to accomplish this requirement. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements. 	
Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License #:
City/State/Zip:	Title:
Phone:	Scope:

Registration Number:

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