

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD
 Project Name: Zafiris Residence
 Calculation Date/Time: 2024-10-10T14:18:07-07:00
 Calculation Description: Title 24 Analysis
 Input File Name: 0240056 Zafiris Residence.rbd22x

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GENERAL INFORMATION											
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
01	Project Name	Zafiris Residence									
02	Run Title	Title 24 Analysis									
03	Project Location	20820 Scenic Vista Dr									
04	City	San Jose	05	Standards Version	2022						
06	Zip code	95120	07	Software Version	EnergyPro 9.3						
08	Climate Zone	09	Front Orientation (deg/Compass)	10							
10	Building Type	Single Family	11	Number of Dwelling Units	1						
12	Project Scope	Addition and/or Alteration	13	Number of Bedrooms	4						
14	Addition Cond. Floor Area (ft²)	885	15	Number of Stories	1						
16	Existing Cond. Floor Area (ft²)	4555.5	17	Fenestration Average U-Factor	0.34						
18	Total Cond. Floor Area (ft²)	5440.5	19	Glazing Percentage (%)	23.61%						
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a						
22	Fuel Type	Program	23	No Dwelling Unit	No						

COMPLIANCE RESULTS

01	Building Complies with Computer Performance	Yes
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.	Yes
03	This building incorporates one or more Special Features shown below	Yes

Registration Number: 424-P010244387A-000-000-000000-0000
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 HERS Provider: CHEERS
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 CA Building Energy Efficiency Standards - 2022 Residential Compliance
 Report Version: 2022.0.000
 Report Generated: 2024-10-10 14:19:50
 Schema Version: rev 20220901

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ENERGY USE SUMMARY											
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft²-yr)	Standard Design TDV Energy (EDR2) (kWh/ft²-yr)	Proposed Design Source Energy (EDR1) (kBtu/ft²-yr)	Proposed Design TDV Energy (EDR2) (kWh/ft²-yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)					
Space Heating	0	70.91	0	70.32	0	0.59					
Space Cooling	0	29.79	0	26.77	0	3.02					
IMQ Ventilation	0	0	0	0	0	0					
Water Heating	0	14.71	0	15.06	0	-0.35					
Self-Illumination/Availability Credit	0	0	0	0	0	0					
Efficiency Compliance Total	0	115.41	0	112.15	0	3.26					
Photovoltaics	0	0	0	0	0	0					
Battery	0	0	0	0	0	0					
Flexibility	0	0	0	0	0	0					
Indoor Lighting	0	4.67	0	4.67	0	0					
Appl. & Cooking	0	9.55	0	9.54	0	0					
Plug Loads	0	12.19	0	12.19	0	0					
Outdoor Lighting	0	1.25	0	1.25	0	0					
TOTAL COMPLIANCE	0	143.07	0	139.8	0	3.26					

FENESTRATION / GLAZING

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16							
01	Name	02	Type	03	Surface	04	Orientation	05	Area (ft²)	06	U-factor	07	SHGC	08	SHGC Source	09	Exterior Shading	10	Status	11	Verified Existing Condition	
01	Window 15	Window	Rear Wall	Back	190	1	12.5	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 16	Window	Right Wall	Right	290	1	14	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 17	Window	Right Wall	Right	290	1	64	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 18	Window	Right Wall	Right	290	1	28.1	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 19	Window	Right Wall	Right	290	1	27.1	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 20	Window	Right Wall	Right	290	1	25	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 21	Window	Right Wall	Right	290	1	27.2	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 22	Window	Right Wall	Right	290	1	48	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 23	Window	Right Wall	Right	290	1	48	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 24	Window	Right Wall	Right	290	1	1.8	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 25	Window	Right Wall	Right	290	1	66	0.34	NFRC	0.22	NFRC	Bug Screen	New	NA								
01	Transom	Window	Front Wall	Front	10	1	21.2	0.34	NFRC	0.22	NFRC	Bug Screen	New	NA								
01	Window 22	Window	Left Wall	Left	100	1	33.5	0.34	NFRC	0.22	NFRC	Bug Screen	New	NA								
01	Door 6	Window	Rear Wall	Back	190	1	168	0.34	NFRC	0.22	NFRC	Bug Screen	New	NA								
01	Transom 2	Window	Rear Wall	Back	190	1	63.7	0.34	NFRC	0.22	NFRC	Bug Screen	New	NA								
01	Window 23	Window	Rear Wall	Back	190	1	37.1	0.34	NFRC	0.22	NFRC	Bug Screen	New	NA								

SLAB FLOORS

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16				
01	Name	02	Zone	03	Area (ft²)	04	Perimeter (ft)	05	Edge Insul. R-value and Depth	06	Edge Insul. R-value and Depth	07	Carpeted Fraction	08	Heated	09	Status	10	Verified Existing Condition
01	Slab	Existing	4555.5	285	none	0	80%	No	Existing	No									
01	Slab 2	Addition	885	72	none	0	80%	No	New	n/a									

OPAQUE SURFACE CONSTRUCTIONS

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8								
01	Construction Name	02	Surface Type	03	Construction Type	04	Framing	05	Total Cavity R-value	06	Interior / Exterior Continuous R-value	07	U-factor	08	Assembly Layers
01	R-0 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-0	None / None	0.363							Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Exterior Finish: 3 Coat Stucco	

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ENERGY USE INTENSITY											
Energy Use	Standard Design (kBtu/ft²-yr)	Proposed Design (kBtu/ft²-yr)	Compliance Margin (kBtu/ft²-yr)	Margin Percentage							
Gross EUI¹	17.33	17.09	0.24	1.38							
Net EUI²	17.33	17.09	0.24	1.38							

Notes:
 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.
 2. Net EUI is Energy Use Total (including PV) / Total Building Area.

REQUIRED SPECIAL FEATURES
 The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
 * Non-standard duct location (any location other than attic)

HERS FEATURE SUMMARY
 The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building details below. Registered CPDs and CRDs are required to be completed in the HERS Registry.

- Kitchen range hood
- Verified Existing Conditions
- Minimum Airflow
- Fan Efficiency Wats/CFM
- Duct leakage testing
- Ducts located entirely in conditioned space confirmed by duct leakage testing

BUILDING - FEATURES INFORMATION

Q1	Q2	Q3	Q4	Q5	Q6	Q7	
01	Project Name	02	Conditioned Floor Area (ft²)	03	Number of Dwelling Units	04	Number of Bedrooms
01	Zafiris Residence	02	5440.5	03	1	04	4
05	Number of Zones	06	Number of Ventilation Cooling Systems	07	Number of Water Heating Systems	08	0

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ZONE INFORMATION											
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Status					
Existing	Conditioned	HVAC System1	4555.5	11	DHW Sys 1	Existing Unchanged					
Addition	Conditioned	HVAC System1	885	12.5	DHW Sys 1	New					

OPAQUE SURFACES

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12						
01	Name	02	Zone	03	Construction	04	Area (ft²)	05	Window and Door Area (ft²)	06	Tilt (deg)	07	Wall Exceptions	08	Status	09	Verified Existing Condition
01	Front Wall	Existing	R-0 Wall	10	Front	37C	136	90	none	Existing	No						
01	Left Wall	Existing	R-0 Wall	100	Left	87C	176.5	90	none	Existing	No						
01	Rear Wall	Existing	R-0 Wall	190	Back	79C	175	90	none	Existing	No						
01	Right Wall	Existing	R-0 Wall	290	Right	82C	252.3	90	none	Existing	No						
01	Front Wall 2	Addition	R-15 Wall	10	Front	25B	30.25	90	none	New	n/a						
01	Left Wall 2	Addition	R-15 Wall	100	Left	24B	117.5	90	Extension	New	n/a						
01	Rear Wall 2	Addition	R-15 Wall	190	Back	29C	269.8	90	Extension	New	n/a						
01	Right Wall 2	Addition	R-15 Wall	290	Right	21C	64	90	none	New	n/a						
01	Interior Surface	Addition>Exter	R-0 Wall1	n/a	n/a	10	0	n/a	None	New	No						

OPAQUE SURFACES - CATHEDRAL CEILING

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14								
01	Name	02	Zone	03	Construction	04	Area (ft²)	05	Skylight Area (ft²)	06	Roof Rise in 12'	07	Roof Reflectance	08	Roof Cool Roof	09	Status	10	Verified Existing Condition	11	Existing Construction
01	Flat Roof	Existing	R-30 roof No Attic	40	n/a	4555.5	60	0.25	0.1	0.85	No	Altered	Yes	R-30 Roof No Attic							
01	Flat Roof 2	Addition	R-30 Roof No Attic	50	n/a	885	0	0.25	0.1	0.85	No	New	n/a								

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Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16							
01	Name	02	Type	03	Surface	04	Orientation	05	Area (ft²)	06	U-factor	07	SHGC	08	SHGC Source	09	Exterior Shading	10	Status	11	Verified Existing Condition	
01	Window	Window	Front Wall	Front	10	1	32	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 2	Window	Front Wall	Front	10	1	32	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 3	Window	Front Wall	Front	10	1	24	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 4	Window	Front Wall	Front	10	1	24	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 5	Window	Front Wall	Front	10	1	24	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 6	Window	Left Wall	Left	100	1	28	0.34	NFRC	0.22	NFRC	Bug Screen	Altered	No								
01	Window 7	Window	Left Wall	Left	100	1	17.5	0.34	NFRC	0.22	NFRC											