

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Wallace-Jones Residence & ADU
 Calculation Date/Time: 2023-11-22T10:16:55-08:00
 Input File Name: 0230779 Wallace-Jones Residence & ADU.rbd22x

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GENERAL INFORMATION										
01	Project Name	Wallace-Jones Residence & ADU								
02	City	Palo Alto								
03	Project Location	4254 Suzanne Drive								
04	City	05	Standards Version	2022						
06	Zip code	07	Software Version	EnergyPro 9.2						
08	Climate Zone	09	Front Orientation (deg. Cardinal)	315						
10	Building Type	11	Number of Dwelling Units	1						
12	Project Scope	13	Number of Bedrooms	4						
14	Addition Cond. Floor Area (ft²)	15	Number of Stories	2						
16	Existing Cond. Floor Area (ft²)	17	Penetration Average U-Factor	0.3						
18	Total Cond. Floor Area (ft²)	19	Glazing Percentage (%)	11.08%						
20	ADU Bedroom Count	21	ADU Conditioned Floor Area	600						
22	Fuel Type	23	No Dwelling Units	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

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 Registration Date/Time: 2023-11-22 10:31:33
 HERS Provider: CaCERTS, Inc.
 CA Building Energy Efficiency Standards - 2022 Residential Compliance
 Report Version: 2022.0.000
 Schema Version: rev 20220901
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ENERGY USE SUMMARY										
Energy Use	Standard Design Source Energy (EDS1) (kBtu/ft² · yr)	Standard Design TDN Energy (EDS2) (kBtu/ft² · yr)	Proposed Design Source Energy (EDS1) (kBtu/ft² · yr)	Proposed Design TDN Energy (EDS2) (kBtu/ft² · yr)	Compliance Margin (EDS1)	Compliance Margin (EDS2)				
Space Heating	0	32.48	0	32.76	0	-0.38				
Space Cooling	0	37.34	0	36.19	0	1.15				
IAQ Ventilation	0	2.08	0	0.76	0	1.32				
Water Heating	0	41.34	0	43.33	0	-1.99				
Self Utilization/Feasibility Credit										
Efficiency Compliance Total	0	113.24	0	113.04	0	0.2				
Photovoltaics	0	0	0	0						
Battery	0	0	0	0						
Flexibility										
Indoor Lighting	0	6.66	0	6.66						
Appl. & Cooking	0	31.19	0	31.19						
Plug Loads	0	27.76	0	27.76						
Outdoor Lighting	0	1.67	0	1.67						
TOTAL COMPLIANCE	0	180.52	0	180.32						

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ENERGY USE INTENSITY				
	Standard Design (kBtu/ft² · yr)	Proposed Design (kBtu/ft² · yr)	Compliance Margin (kBtu/ft² · yr)	Margin Percentage
Gross EUI ¹	27.43	27.84	-0.41	-1.49
Net EUI ²	27.43	27.84	-0.41	-1.49

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.
- Indoor air quality, balanced fan
 - IAQ Ventilation System as low as 0.233333 W/CFM
 - IAQ Ventilation System Heat Recovery, minimum 85 SRE and 88 ASRE
 - IAQ Ventilation System supply outside air, one filter, and filter area at least 100 sq ft
 - Window overhangs and/or fins
 - New ductwork added is less than 25 ft in length
 - Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heaters, specific brand/model, or equivalent, must be installed.

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 tables below. Registered CF2s and CF3s are required to be completed in the HERS Registry
- Indoor air quality, balanced fan
 - Kitchen range hood
 - Verified heat pump rated heating capacity
 - Duct sealing required if a duct system component, plenum, or air handling unit is altered

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Wallace-Jones Residence & ADU	2389	1	4	3	0	2

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ZONE INFORMATION										
01	02	03	04	05	06	07				
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Status				
2nd Floor	Conditioned	Main House HVAC1	1220	8	DHW Sys 1	Existing Unchanged				
1st Floor Addition	Conditioned	Main House HVAC1	569	8	DHW Sys 1	New				
ADU	Conditioned	ADU Mini-Split2	600	8	DHW Sys 3	New				

OPAQUE SURFACES

01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Area (ft²)	Orientation	Gross Area (ft²)	Window and Door Area (ft²)	Tilt (deg)	Wall Exceptions	Status	Verified Existing Condition
Front Wall	1st Floor	R-0 Wall	315	Front	86	24	90	none	Existing	No
Left Wall	1st Floor	R-0 Wall	49'	Left	256	26.7	90	none	Existing	No
Rear Wall	1st Floor	R-0 Wall	185	Back	51.4	0	90	none	Existing	No
Right Wall	1st Floor	R-0 Wall	225	Right	228	41	90	none	Existing	No
Front Wall 2	1st Floor Addition	R-15 Wall	315	Front	174	57.35	90	none	New	n/a
Left Wall 2	1st Floor Addition	R-15 Wall	45	Left	126.6	0	90	Extension	New	n/a
Rear Wall 2	1st Floor Addition	R-15 Wall	135	Back	26.2	77.35	90	Extension	New	n/a
Right Wall 2	1st Floor Addition	R-15 Wall	225	Right	169.4	0	90	Extension	New	n/a
Front Wall 3	ADU	R-15 Wall	315	Front	200	9	90	Extension	New	n/a
Left Wall 3	ADU	R-15 Wall	45	Left	192	40	90	none	New	n/a
Rear Wall 3	ADU	R-15 Wall	135	Back	200	16	90	Extension	New	n/a
Right Wall 3	ADU	R-15 Wall	225	Right	152	0	90	Extension	New	n/a
Roof 2	1st Floor	R-19 Roof Attic	n/a	n/a	1220	n/a	n/a	n/a	Existing	No

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OPAQUE SURFACES										
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Area (ft²)	Orientation	Gross Area (ft²)	Window and Door Area (ft²)	Tilt (deg)	Wall Exceptions	Status	Verified Existing Condition
Roof 3	1st Floor Addition	R-38 Roof Attic	n/a	n/a	569	n/a	n/a	n/a	New	n/a
Raised Over Garage	ADU	R-19 Floor No Crawlspace	n/a	n/a	600	n/a	n/a	n/a	New	n/a

OPAQUE SURFACES - CATHEDRAL CEILING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Zone	Construction	Area (ft²)	Orientation	Area (ft²)	Skylight Area (ft²)	Roof Rise (x in 12)	Roof Reflectance	Roof Emissivity	Cool Roof	Status	Verified Existing Condition	Existing Construction
Roof	ADU	R-30 Roof No Attic	180	n/a	600	0	0.25	0.1	0.85	No	New	n/a	

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01	02	03	04	05	06	07	08	09	10
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emissivity	Radiant Barrier	Cool Roof	Status	Verified Existing Condition
Attic 1st Floor	Attic Roof/1st Floor Addition	Ventilated	4	0.1	0.85	No	No	Existing	No
Attic 1st Floor Addition	Attic Roof/1st Floor Addition	Ventilated	4	0.1	0.85	Yes	No	New	n/a

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientation	Area (ft²)	Width (ft)	Height (ft)	U-factor	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition			
Window	Window	Front Wall	Front	315	1	24	0.58	Table 110.6-A	0.65	Table 110.6-A	Bug Screen	Existing	No		
Window 2	Window	Right Wall	Right	225	1	9	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		

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01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientation	Area (ft²)	Width (ft)	Height (ft)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition		
Window 3	Window	Right Wall	Right	225	1	16	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
Window 4	Window	Right Wall	Right	225	1	16	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
Window 5	Window	Front Wall 2	Front	315	1	24	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
Entry Door	Window	Front Wall 2	Front	315	5	6.67	1	33.3	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA
Window 6	Window	Rear Wall 2	Back	135	1	8	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
French door	Window	Rear Wall 2	Back	135	1	33.3	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
Window 7	Window	Rear Wall 2	Back	135	1	16	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
Glass door	Window	Rear Wall 2	Back	135	1	20	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
Window 8	Window	Front Wall 3	Front	315	1	9	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
Window 9	Window	Left Wall 3	Left	45	1	16	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
Window 10	Window	Left Wall 3	Left	45	1	16	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
Window 11	Window	Left Wall 3	Left	45	1	8	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		
Window 12	Window	Rear Wall 3	Back	135	1	16	0.3	NFRC	0.21	NFRC	Bug Screen	New	NA		

OPAQUE DOORS

01	02	03	04	05	06
Name	Side of Building	Area (ft²)	U-factor	Status	Verified Existing Condition
Door	Left Wall	16.7	0.5	Existing	No

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OVERHANGS AND FINIS																
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
Window	Overhang			Left Fin			Right Fin									