

CERTIFICATE OF COMPLIANCE		Calculation Date/Time: 2021-11-23 12:10:24-08:00		CF19-PRF-016	
Project Name: Alevizos Residence		Input File Name: 0210965 Alevizos Residence.rbd19x		(Page 1 of 9)	
GENERAL INFORMATION					
01	Project Name	Alevizos Residence			
02	Run Title	Title 24 Analysis			
03	Project Location	1137 Via Jose			
04	City	San Jose	05	Standards Version	2019
06	Zip code	95120	07	Software Version	Enynergy 9.2
08	Climate Zone	4	09	Front Orientation (deg. Cardinal)	180
10	Building Type	Single family	11	Number of Dwelling Units	1
12	Project Scope	ADD/REARRANGE	13	Number of Bedrooms	3
14	Addition Cond. Floor Area (ft ²)	0	15	Number of Stories	1
16	Existing Cond. Floor Area (ft ²)	2913	17	Penetration Average U-Factor	0.36
18	Total Cond. Floor Area (ft ²)	2913	19	Glazing Percentage (%)	12.50%
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a
22	Is Natural Gas Available?	Yes			
COMPLIANCE RESULTS					
01	Building Complies with Computer Performance				
02	This building incorporates features that require field testing and/or verification by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional details are provided in the building tables below. Registered CF19s and CF19s are required to be completed on the HERS Registry.				
03	This building incorporates one or more Special Features shown below				
ENERGY USE SUMMARY					
	Energy Use (kWh/yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
	Space Heating	54.09	55.15	-0.36	-0.3
	Space Cooling	21.32	20.39	0.33	4.4
	HVAC Ventilation	0	0	0	0
	Water Heating	13.44	13.44	0	0
	Solar Utilization/Passivity Credit	n/a	0	0	0
	Compliance Energy Total	89.75	88.98	0.77	0.8
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REQUIRED SPECIAL FEATURES					
The following are features that must be installed as a condition for meeting the modeled energy performance for this computer analysis.					
<ul style="list-style-type: none"> New ductwork added is less than 40 ft. in length Ducts in crawl space 					
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 details are provided in the building tables below. Registered CF19s and CF19s are required to be completed on the HERS Registry.					
BUILDING - FEATURES INFORMATION					
01	Project Name	02	Conditioned Floor Area (ft ²)	03	Number of Dwelling Units
Alevizos Residence	2913	1	5	1	0
ZONE INFORMATION					
01	Zone Name	02	Zone Type	03	HVAC System Name
Zone 1	Conditioned	HVAC System 1	2913	9	DHW Sys 1
04	Zone Floor Area (ft ²)	05	Avg. Ceiling Height	06	Water Heating System 1
2913	9	N/A			
07	Water Heating System 2				
N/A					
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OPAQUE SURFACES					
01	02	03	04	05	06
Name	Zone	Construction	Orientation	Gross Area (ft ²)	Window and Door Area (ft ²)
Front Wall	Zone 1	R-0 Wall	180	450	30
Left Wall	Zone 1	R-0 Wall	270	680	30
Rear Wall	Zone 1	R-0 Wall	5	568	169.4
Right Wall	Zone 1	R-0 Wall	30	680	54.7
Roof	Zone 1	R-19 Roof ABC	n/a	1950	n/a
Raised Floor	Zone 1	R-0 Floor Crawlspace	n/a	2913	n/a
OPAQUE SURFACES - CATHEDRAL CEILING					
01	02	03	04	05	06
Name	Zone	Construction	Orientation	Area (ft ²)	Roof Area (ft ²)
Unvented Roof	Zone 1	R-38 Roof No Attic	0	1004	32
ATTIC					
01	02	03	04	05	06
Name	Construction	Roof Slope (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier
Attic Zone 1	Attic Roof/Zone 1	Ventilated	4	0.1	0.85
PENETRATION / GLAZING					
01	02	03	04	05	06
Name	Type	Surface	Orientation	U-Factor	SHGC
Window	Window	Front Wall	Front	1	0.32
Window 2	Window	Front Wall	Front	1	0.32
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PENETRATION / GLAZING					
01	02	03	04	05	06
Name	Type	Surface	Orientation	U-Factor	SHGC
Window 3	Window	Front Wall	Front	1	0.36
Window 4	Window	Left Wall	Left	1	0.36
Window 5	Window	Left Wall	Left	1	0.36
Window 6	Window	Left Wall	Left	1	0.36
Window 7	Window	Rear Wall	Back	1	0.36
Door	Window	Rear Wall	Back	1	0.37
Door 2	Window	Rear Wall	Back	1	0.37
Window 8	Window	Rear Wall	Back	1	0.32
Window 9	Window	Rear Wall	Back	1	0.32
Window 10	Window	Rear Wall	Back	1	0.32
Door 3	Window	Right Wall	Right	1	0.37
Skylights	Skylight	Unvented Roof	Back	1	0.42
SKYLIGHTS					
01	02	03	04	05	06
Name	Side of Building	Area (ft ²)	U-Factor	Status	Verified Existing Condition
Door 4	Front Wall	20	0.5	Existing	No
OPAQUE SURFACE CONSTRUCTIONS					
01	02	03	04	05	06
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Conditional R-value
R-0 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R-0	None / None
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OPAQUE SURFACE CONSTRUCTIONS					
01	02	03	04	05	06
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Conditional R-value
R-38 Roof No Attic	Cathedral Ceilings	Wood Framed Ceiling	2x10 @ 16 in. O.C.	R-38	None / None
Attic Roof/Zone 1	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-0	None / None
R-0 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x6 @ 16 in. O.C.	R-0	None / None
R-19 Roof Attic	Ceilings (Below Attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-19	None / None
BUILDING ENVELOPE - HERS VERIFICATION					
01	02	03	04		
Quality Insulation Installation (QI)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50		
Not Required	Not Required	Not Required	n/a		
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WATER HEATING SYSTEMS					
01	02	03	04	05	06
Name	System Type	Distribution Type	Water Heater Name (F)	Solar Heating System	Compact Distribution
DHW Sys 1	Domestic Hot Water (DHW)	Standard Distribution System	DHW Heater 1 (1)	n/a	None
WATER HEATERS					
01	02	03	04	05	06
Name	Heating Element Type	Tank Type	# of Units	Energy Factor or Efficiency	Input Rating or Recovery (gal/hr/Ft)
DHW Heater 1	Gas	Small Storage	1	0.67	4.7
WATER HEATING - HERS VERIFICATION					
01	02	03	04	05	06
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Recirculation Control	Central DHW Distribution
DHW Sys 1-1/2	Not Required	Not Required	Not Required	None	Not Required
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SPACE CONDITIONING SYSTEMS					
01	02	03	04	05	06
Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name
HVAC System 1	Heating and cooling system other	Heating Component 1	Cooling Component 1	HVAC Fan 1	Air Distribution System 1
HVAC - HEATING UNIT TYPES					
01	02	03	04		
Name	System Type	Number of Units	Heating Efficiency		
Heating Component 1	Central gas furnace	1	AFUE 80		
HVAC - COOLING UNIT TYPES					
01	02	03	04	05	06
Name	System Type	Number of Units	Efficiency EER/SEER	Efficiency SEER	Zonally Controlled
Cooling Component 1	Central split AC	1	11.7	13	Not Zonal
HVAC - DISTRIBUTION SYSTEMS					
01	02	03	04	05	06
Name	Type	Design Type	Supply Return	Supply Return	Bypass Duct
Air Distribution System 1	Unconditioned crawl space	Non-Ventilated	8.4.2	8.4.2	Crawl Space
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HVAC - DISTRIBUTION SYSTEMS					
01	02	03	04	05	06
Name	Type	Design Type	Supply Return	Supply Return	Bypass Duct
R-0 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R-0	None / None
HVAC FAN SYSTEMS - HERS VERIFICATION					
01	02	03			
Name	System Type	Number of Units	Verified Fan Watt Draw	Required Fan Efficiency (Watts/CFM)	
HVAC Fan 2 - new fan		1	Not Required	0	
HERS RATER VERIFICATION OF EXISTING CONDITIONS					
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT					
I certify that this Certificate of Compliance documentation is accurate and complete.					
Documentation Author Name:		Documentation Author Signature:			
Adam Bailey					
Company:		Date Signed:			
FRI Energy Consultants, LLC.		2021-11-23 12:14:01			
Address:		City/State/Zip:			
21 N. Harrison Ave.		Campbell, CA 95008			
Phone:		Fax:			
408-866-1620		408-866-1620			
RESPONSIBLE PERSON'S DECLARATION STATEMENT					
The following is provided under penalty of perjury, under the laws of the State of California:					
1. I am registered under Division 14 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.					
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.					
3. 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 enforcing agency for approval with this building permit application.					
Responsible Designer Name:		Responsible Designer Signature:			
Adam Bailey					
Company:		Date Signed:			
FRI Energy Consultants, LLC.		2021-11-23 12:14:01			
Address:		City/State/Zip:			
21 N. Harrison Ave.		Campbell, CA 95008			
Phone:		Fax:			
408-866-1620		408-866-1620			
Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.					
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 SAN JOSE, CA 95120

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