

Santa Ana 1 Bed ADU (2022) CF1R & MF1R

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD													
Project Name: Santa Ana ADU 1 Bed (2022) Calculation Date/Time: 2023-01-23T05:13:31-08:00													
Calculation Description: Title 24 Analysis Input File Name: SantaAnaADU-1Bed (2022).ribd22x													
FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Multi.	U-factor	SHGC	SHGC Source	Exterior Shading		
Window #A	Window	Right Wall ADU-1 Bed	Right	270	1	9	0.3	NFRC	0.23	NFRC	Bug Screen		
Window #B	Window	Right Wall ADU-1 Bed	Right	270	1	6	0.3	NFRC	0.23	NFRC	Bug Screen		
Window (2) #C	Window	Back Wall ADU-1 Bed	Back	180	1	15	0.3	NFRC	0.23	NFRC	Bug Screen		
Window #D	Window	Left Wall ADU-1 Bed	Left	90	1	15	0.3	NFRC	0.23	NFRC	Bug Screen		
Fr door #2	Window	Left Wall ADU-1 Bed	Left	90	1	20	0.3	NFRC	0.23	NFRC	Bug Screen		
Window #A	Window	Left Wall ADU-1 Bed	Left	90	1	9	0.3	NFRC	0.23	NFRC	Bug Screen		

SLAB FLOORS							
01	02	03	04	05	06	07	08
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade ADU-1 Bed	ADU - 1 Bed	499	118	none	0	0%	No

Registration Number: 223-P01000198A-00000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance
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Report Version: 2022.0.0.0
Schema Version: rev 20220901
HERS Provider: CaCERTS, Inc.
Report Generated: 2023-01-23 05:13:59

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HVAC HEAT PUMPS - HERS VERIFICATION									
01	02	03	04	05	06	07	08	09	
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17	
Heat Pump System 1-hers-h2pump	Not Required	Not Required	Not Required	Not Required	Yes	No	Yes	Yes	

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION									
01	02	03	04	05	06	07	08	09	10
Name	Certified Low-Static VCHP System	Airflow to Habitable Rooms	Ductless Units in Conditioned Space	Wall Mount Thermostat	Air Filter Size and Pressure Drop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RA2.3 and SC3.3.1.4.1	Certified Non-Continuous Running	Indoor Fan Not Continuously
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required

INDOOR AIR QUALITY (IAQ) FANS								
01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficiency (W/CFM)	IAQ Fan Type	High-Capacity Head/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Faulty Indicator Display?	HERS Verification	Status
5fam-IAQWentRpt	30	0.35	Exhaust	No	n/a	No	Yes	

PRODUCT NOTES
Energy Pro uses ASHRAE method for HVAC sizing.
Solar is 1.72 kWdc < 1.8 - Solar exemption taken

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OPAQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-15 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	None / None	0.095	Inside Finish: Gypsum Board Cavity Frame: R-15 / 2x4 Exterior Finish: 3 Coat Stucco
R-38 Roof No Attic	Cathedral Ceilings	Wood Framed Ceiling	2x12 @ 24 in. O. C.	R-38	None / None	0.029	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/Heating/Decking Cavity Frame: R-38 / 2x12 Inside Finish: Gypsum Board
R-15 Wall1	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	None / None	0.086	Inside Finish: Gypsum Board Cavity Frame: R-15 / 2x4 Other Side Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION				
01	02	03	04	05
Quality Insulation Installation (QI)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Required	Not Required	N/A	n/a	n/a

WATER HEATING SYSTEMS								
01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (t)
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT									
I, certify that this Certificate of Compliance documentation is accurate and complete.									
Documentation Author Name: Diane Mendoza		Documentation Author Signature: <i>Diane Mendoza</i>							
Company: D & R Kaica		Signature Date: 2023-01-23 06:36:03							
Address: 14107 Jpava Drive		CA HERS Certification Identification (if applicable): N/A							
City/Town/State: Poway, CA 92064		858-496-9506							
RESPONSIBLE PERSON'S DECLARATION STATEMENT									
I certify the following under penalty of perjury under the laws of the State of California:									
1. I am eligible under Division 3 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 relevant regulatory authority for permit application.									
Responsible Designer Name: Yvonne St Pierre		Responsible Designer Signature: <i>Yvonne St Pierre</i>							
Company: Design Path Studio		Date/Time: 2023-01-23 05:43:01							
Address: 364 Second St, Suite 2		Phone: 34789							
City/Town/State: Encinitas, CA 92024		760-944-1443							

Digital signed by CaCERTS. 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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WATER HEATERS - NEEA HEAT PUMP							
01	02	03	04	05	06	07	08
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1	50	Rheem	RheemPHD50TZR H2500	Outside	ADU - 1 Bed	ADU - 1 Bed

WATER HEATING - HERS VERIFICATION						
01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

SPACE CONDITIONING SYSTEMS								
01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat
MiniSplit ADU-1 Bed1	Heat pump Heating cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a	Setback

HVAC - HEAT PUMPS												
01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Efficiency Type	HSPF / HSPF2 / COP	Cap 47	Cap 17	Efficiency Type	SEER / SEER2	EER / EER2 / CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHP-ductless	1	HSPF	8.2	15000	9300	EERSEER	14	11.7	Not Zonal	Single Speed	Heat Pump System 1-HersH2pump

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2022 Single-Family Residential Mandatory Requirements Summary

2022 Single-family residential buildings subject to the Energy Code must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information.

Building Envelope	
§ 110.01.1	Roof Leaks: Manufactured ventilation, exterior doors, and exterior panels must meet or exceed a leakage of 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E913, or ASTM E283, or AMAN/WMA/CA 1015 & 2444-2011.
§ 110.01.2	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from the manufacturer's published literature.
§ 110.01.3	Air Leakage: All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be sealed.
§ 110.01.4	Insulation Requirements for Manufactured: Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Appliances and Home Safety.
§ 110.01.5	Insulation Requirements for Heated Slab Floors: Heated slab floors must be insulated per the requirements of 110.01.5.1.
§ 110.01.6	Roofing Product Solar Reflectance and Thermal Emittance: The thermal emittance and solar reflectance values of the roofing product must meet the requirements of 110.01.6.1 and 110.01.6.2.
§ 110.01.7	Radon Barriers: When required, radon barriers must have an emittance of 0.05 or less and be certified by the Department of Consumer Affairs.
§ 110.01.8	Roof Deck, Ceiling and Rafter Insulation: Roof decks in newly constructed single-family dwellings 4 and 5 ft are required to be insulated with a minimum R-value of R-30. Existing roof decks must be insulated with a minimum R-value of R-30. Rafter insulation must be installed in accordance with 110.01.8.1 and 110.01.8.2.
§ 110.01.9	Low-E Insulation: Low-E insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration, in accordance with 110.01.9.1 and 110.01.9.2.
§ 110.01.10	Wall Insulation: Minimum R-13 insulation or 2x4 stud wood framing wall with a U-factor of 0.12 or less, or R-20 in 2x6 stud wood framing or 4x4 stud wood framing or 2x6 stud wood framing wall with a U-factor of 0.12 or less, or R-13 in 2x4 stud wood framing wall with a U-factor of 0.12 or less, or R-13 in 2x6 stud wood framing wall with a U-factor of 0.12 or less, or R-13 in 2x4 stud wood framing wall with a U-factor of 0.12 or less, or R-13 in 2x6 stud wood framing wall with a U-factor of 0.12 or less.
§ 110.01.11	Basement Insulation: Basements that are finished or unvented must be insulated per 110.01.11.1 and 110.01.11.2.
§ 110.01.12	Slab Edge Insulation: Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material area under the slab, of no greater than 0.3 percent; have a minimum thickness of 2 inches; be installed in accordance with 110.01.12.1 and 110.01.12.2; and be installed in accordance with 110.01.12.3.
§ 110.01.13	Vapor Barriers: In climate zones 1 through 16, the water vapor equivalent air layer must be installed in accordance with 110.01.13.1 and 110.01.13.2.
§ 110.01.14	Vapor Retarder: In climate zones 14 and 16, Class 1 Vapor Retarder must be installed on the conditioned space side of the insulation.
§ 110.01.15	Fasteners: Fasteners, including nails, screws, and other fasteners, must be installed in accordance with 110.01.15.1 and 110.01.15.2.
§ 110.01.16	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.16.1 and 110.01.16.2.
§ 110.01.17	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.17.1 and 110.01.17.2.
§ 110.01.18	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.18.1 and 110.01.18.2.
§ 110.01.19	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.19.1 and 110.01.19.2.
§ 110.01.20	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.20.1 and 110.01.20.2.
§ 110.01.21	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.21.1 and 110.01.21.2.
§ 110.01.22	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.22.1 and 110.01.22.2.
§ 110.01.23	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.23.1 and 110.01.23.2.
§ 110.01.24	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.24.1 and 110.01.24.2.
§ 110.01.25	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.25.1 and 110.01.25.2.
§ 110.01.26	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.26.1 and 110.01.26.2.
§ 110.01.27	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.27.1 and 110.01.27.2.
§ 110.01.28	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.28.1 and 110.01.28.2.
§ 110.01.29	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.29.1 and 110.01.29.2.
§ 110.01.30	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.30.1 and 110.01.30.2.
§ 110.01.31	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.31.1 and 110.01.31.2.
§ 110.01.32	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.32.1 and 110.01.32.2.
§ 110.01.33	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.33.1 and 110.01.33.2.
§ 110.01.34	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.34.1 and 110.01.34.2.
§ 110.01.35	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.35.1 and 110.01.35.2.
§ 110.01.36	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.36.1 and 110.01.36.2.
§ 110.01.37	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.37.1 and 110.01.37.2.
§ 110.01.38	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.38.1 and 110.01.38.2.
§ 110.01.39	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.39.1 and 110.01.39.2.
§ 110.01.40	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.40.1 and 110.01.40.2.
§ 110.01.41	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.41.1 and 110.01.41.2.
§ 110.01.42	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.42.1 and 110.01.42.2.
§ 110.01.43	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.43.1 and 110.01.43.2.
§ 110.01.44	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.44.1 and 110.01.44.2.
§ 110.01.45	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.45.1 and 110.01.45.2.
§ 110.01.46	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.46.1 and 110.01.46.2.
§ 110.01.47	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.47.1 and 110.01.47.2.
§ 110.01.48	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.48.1 and 110.01.48.2.
§ 110.01.49	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.49.1 and 110.01.49.2.
§ 110.01.50	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.50.1 and 110.01.50.2.
§ 110.01.51	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.51.1 and 110.01.51.2.
§ 110.01.52	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.52.1 and 110.01.52.2.
§ 110.01.53	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.53.1 and 110.01.53.2.
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§ 110.01.57	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.57.1 and 110.01.57.2.
§ 110.01.58	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.58.1 and 110.01.58.2.
§ 110.01.59	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.59.1 and 110.01.59.2.
§ 110.01.60	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.60.1 and 110.01.60.2.
§ 110.01.61	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.61.1 and 110.01.61.2.
§ 110.01.62	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.62.1 and 110.01.62.2.
§ 110.01.63	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.63.1 and 110.01.63.2.
§ 110.01.64	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.64.1 and 110.01.64.2.
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§ 110.01.68	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.68.1 and 110.01.68.2.
§ 110.01.69	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.69.1 and 110.01.69.2.
§ 110.01.70	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.70.1 and 110.01.70.2.
§ 110.01.71	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.71.1 and 110.01.71.2.
§ 110.01.72	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.72.1 and 110.01.72.2.
§ 110.01.73	Fasteners, Decorative Gas Appliances, and Gas Log: Fasteners, decorative gas appliances, and gas logs must be installed in accordance with 110.01.73.1 and 110.01.73.2.
§ 110.0	