

### Santa Ana Studio ADU (2022) CF1R & MF1R

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Santa Ana ADU Studio (2022)  
Calculation Date/Time: 2023-01-23T05:18:31-08:00  
Input File Name: SantaAnaADUStudio (2022).rib22x

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	U-factor	SHGC	SHGC Source	Exterior Shading		
Window #A	Window	Front Wall ADU-Studio	Front	0	1	9	0.3	NFRC	0.23	NFRC	Bug Screen		
Window #B	Window	Right Wall ADU-Studio	Right	270	1	7.5	0.3	NFRC	0.23	NFRC	Bug Screen		
Window #C	Window	Back Wall ADU-Studio	Back	180	1	6	0.3	NFRC	0.23	NFRC	Bug Screen		
Fr Door #2	Window	Left Wall ADU-Studio	Left	90	1	33.4	0.3	NFRC	0.23	NFRC	Bug Screen		

01	02	03	04	05	06	07	08
Name	Zone	Area (ft <sup>2</sup> )	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade ADU-Studio	ADU - Studio	399	118	none	0	0%	No

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

Registration Number: 223-P01000158A-000-0000000-000  
CA Building Energy Efficiency Standards - 2022 Residential Compliance  
Registration Date/Time: 2023-01-23 05:43:01  
Report Version: 2022.0.0.0  
Schema Version: rev 20220901  
HERS Provider: CalCERTS Inc.  
Report Generated: 2023-01-23 05:18:56

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Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
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/Sheathing/Decking Cavity / Frame: R-38 / 2x12 Inside Finish: Gypsum Board
R-15 Wall	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

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

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 (I)
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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Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Model	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1	40	Rheem	Rheem/PH40H2ZR	Outside	ADU - Studio	ADU - Studio

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

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-Studio1	Heat pump Heating cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a	Setback

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 / EER / SEER2	EER / EER / SEER2	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHP-ductless	1	HSPF	8.2	12800	7950	EERSEER	14	11.7	Not Zonal	Single Speed	Heat Pump System 1-HeatPump

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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-HeatPump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

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/Type/Pressure Drop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RA2.3 and SC3.3.1.4.1	Certified Non-Combustible	Indoor Fan Not Running Continuously
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required

01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficiency (W/CFM)	IAQ Fan Type	High/High-Head/Energy Recovery	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	Status
5Fan IAQVestRpt	27	0.35	Exhaust	No	n/a	No	Yes	

PRODUCT NOTES  
Energy Pro uses ASHRAE method for HVAC sizing.  
Solar is 1.71 kWdc x 1.8 - Solar exemption taken.

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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  
Signature Date: 2023-01-23 06:35:10  
Address: 14107 Javira Drive, Poway, CA 92064  
Phone: 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 authority having jurisdiction for permit application.

Responsible Designer Name: Yvonne St Pierre  
Signature Date: 2023-01-23 05:43:01  
Address: 364 Second St, Suite 2, Encinitas, CA 92024  
Phone: 760-944-1443

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150.001	150.002	150.003	150.004	150.005	150.006	150.007	150.008	150.009	150.010	150.011	150.012	150.013	150.014	150.015	150.016	150.017	150.018	150.019	150.020	150.021	150.022	150.023	150.024	150.025	150.026	150.027	150.028	150.029	150.030	150.031	150.032	150.033	150.034	150.035	150.036	150.037	150.038	150.039	150.040	150.041	150.042	150.043	150.044	150.045	150.046	150.047	150.048	150.049	150.050	150.051	150.052	150.053	150.054	150.055	150.056	150.057	150.058	150.059	150.060	150.061	150.062	150.063	150.064	150.065	150.066	150.067	150.068	150.069	150.070	150.071	150.072	150.073	150.074	150.075	150.076	150.077	150.078	150.079	150.080	150.081	150.082	150.083	150.084	150.085	150.086	150.087	150.088	150.089	150.090	150.091	150.092	150.093	150.094	150.095	150.096	150.097	150.098	150.099	150.100	150.101	150.102	150.103	150.104	150.105	150.106	150.107	150.108	150.109	150.110	150.111	150.112	150.113	150.114	150.115	150.116	150.117	150.118	150.119	150.120	150.121	150.122	150.123	150.124	150.125	150.126	150.127	150.128	150.129	150.130	150.131	150.132	150.133	150.134	150.135	150.136	150.137	150.138	150.139	150.140	150.141	150.142	150.143	150.144	150.145	150.146	150.147	150.148	150.149	150.150	150.151	150.152	150.153	150.154	150.155	150.156	150.157	150.158	150.159	150.160	150.161	150.162	150.163	150.164	150.165	150.166	150.167	150.168	150.169	150.170	150.171	150.172	150.173	150.174	150.175	150.176	150.177	150.178	150.179	150.180	150.181	150.182	150.183	150.184	150.185	150.186	150.187	150.188	150.189	150.190	150.191	150.192	150.193	150.194	150.195	150.196	150.197	150.198	150.199	150.200	150.201	150.202	150.203	150.204	150.205	150.206	150.207	150.208	150.209	150.210	150.211	150.212	150.213	150.214	150.215	150.216	150.217	150.218	150.219	150.220	150.221	150.222	150.223	150.224	150.225	150.226	150.227	150.228	150.229	150.230	150.231	150.232	150.233	150.234	150.235	150.236	150.237	150.238	150.239	150.240	150.241	150.242	150.243	150.244	150.245	150.246	150.247	150.248	150.249	150.250	150.251	150.252	150.253	150.254	150.255	150.256	150.257	150.258	150.259	150.260	150.261	150.262	150.263	150.264	150.265	150.266	150.267	150.268	150.269	150.270	150.271	150.272	150.273	150.274	150.275	150.276	150.277	150.278	150.279	150.280	150.281	150.282	150.283	150.284	150.285	150.286	150.287	150.288	150.289	150.290	150.291	150.292	150.293	150.294	150.295	150.296	150.297	150.298	150.299	150.300	150.301	150.302	150.303	150.304	150.305	150.306	150.307	150.308	150.309	150.310	150.311	150.312	150.313	150.314	150.315	150.316	150.317	150.318	150.319	150.320	150.321	150.322	150.323	150.324	150.325	150.326	150.327	150.328	150.329	150.330	150.331	150.332	150.333	150.334	150.335	150.336	150.337	150.338	150.339	150.340	150.341	150.342	150.343	150.344	150.345	150.346	150.347	150.348	150.349	150.350	150.351	150.352	150.353	150.354	150.355	150.356	150.357	150.358	150.359	150.360	150.361	150.362	150.363	150.364	150.365	150.366	150.367	150.368	150.369	150.370	150.371	150.372	150.373	150.374	150.375	150.376	150.377	150.378	150.379	150.380	150.381	150.382	150.383	150.384	150.385	150.386	150.387	150.388	150.389	150.390	150.391	150.392	150.393	150.394	150.395	150.396	150.397	150.398	150.399	150.400	150.401	150.402	150.403	150.404	150.405	150.406	150.407	150.408	150.409	150.410	150.411	150.412	150.413	150.414	150.415	150.416	150.417	150.418	150.419	150.420	150.421	150.422	150.423	150.424	150.425	150.426	150.427	150.428	150.429	150.430	150.431	150.432	150.433	150.434	150.435	150.436	150.437	150.438	150.439	150.440	150.441	150.442	150.443	150.444	150.445	150.446	150.447	150.448	150.449	150.450	150.451	150.452	150.453	150.454	150.455	150.456	150.457	150.458	150.459	150.460	150.461	150.462	150.463	150.464	150.465	150.466	150.467	150.468	150.469	150.470	150.471	150.472	150.473	150.474	150.475	150.476	150.477	150.478	150.479	150.480	150.481	150.482	150.483	150.484	150.485	150.486	150.487	150.488	150.489	150.490	150.491	150.492	150.493	150.494	150.495	150.496	150.497	150.498	150.499	150.500	150.501	150.502	150.503	150.504	150.505	150.506	150.507	150.508	150.509	150.510	150.511	150.512	150.513	150.514	150.515	150.516	150.517	150.518	150.519	150.520	150.521	150.522	150.523	150.524	150.525	150.526	150.527	150.528	150.529	150.530	150.531	150.532	150.5
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