

	Ranch Base		Ranch Base Roof
	Ranch Porch		Ranch Porch Roof
	Tuscan Base		Tuscan Base Roof
	Tuscan Porch		Tuscan Porch Roof

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project
City of Moreno
Valley Permitted
ADU Plan Set

revisions
△

description

Exterior
Style
Options

date

project no. 2024_Moreno ADU

drawn by

sheet no. T1.2

DESIGN PATH STUDIO
architecture + engineering + planning
P.O. BOX 230165 ENCINITAS, CA 92023 --- 619.292.8807
DESIGNPATHSTUDIO.COM

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BUILDING ENERGY REPORT	
PROJECT:	
Moreno Valley Studio 0B ADU Base	
Moreno Valley , CA 92555	
Project Designer:	
Design Path Studio	
P.O. Box 230165	
Encinitas, CA 92023	
Report Prepared by:	
Design Path Studio	
1	
Job Number:	
Date:	
10/4/2024	

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC - www.energysoft.com

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD				CF1R-PRF-0-E
Project Name: Moreno Valley Studio 08 ADU Base				Calculation Date/Time: 2024-10-04T09:17:12:07:00
Calculation Description: Title 24 Analysis				Input File Name: Moreno Valley Studio08_ADUBase.rbd22x
GENERAL INFORMATION				
01	Project Name: Moreno Valley Studio 08 ADU Base			
02	Run Title: Title 24 Analysis			
03	Project Location			
04	City	Moreno Valley	05	Standards Version
06	Zip code	92555	07	Software Version
08	Climate Zone	10	09	EnergyPro 9.2
10	Building Type	Single family	11	Front Orientation (deg/ Cardinal)
12	Project Scope	Newly Constructed	13	All orientations
14	Number of Dwelling Units	1	15	Number of Bedrooms
16	Number of Bedrooms	0	17	Number of Stories
18	Addition Cond. Floor Area (ft²)	0	19	Number of Stories
20	Existing Cond. Floor Area (ft²)	n/a	21	Fenestration Average U-factor
22	Total Cond. Floor Area (ft²)	306	23	U-factor
24	ADU Bedroom Count	n/a	25	Glassing Percentage (%)
26	Fuel Type	Natural gas	27	ADU Conditioned Floor Area
28			29	n/a
30			31	No Dwelling Unit
32			33	No

[illegible]

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CFIR-PRF-01-01

Project Name: Moreno Valley Studio 08 ADU Base

Calculation Date/Time: 2024-10-04T09:17:12-07:00

(Page 3 of 12)

Calculation Description: Title 24 Analysis

Input File Name: Moreno Valley StudioB_ADUBase.ribd2zx

ENERGY USE SUMMARY

Energy Use	Standard Design Source Energy (EDR1) (kBtu/h ² ·yr)	Standard Design TDV Energy (EDR2) (kTDV/h ² ·yr)	Proposed Design Source Energy (EDR1) (kBtu/h ² ·yr)	Proposed Design TDV Energy (EDR2) (kTDV/h ² ·yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.39	2.02	3	21.95	-2.61	-19.93
Space Cooling	3.03	59.61	2.01	48.45	1.02	11.16
IAQ Ventilation	0.61	6.39	0.61	6.39	0	0
Water Heating	5.84	59.43	3.52	40.75	2.32	18.68
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	9.87	127.45	9.14	117.54	0.73	9.91
Space Heating	0.39	2.02	2.66	19.1	-2.27	-17.08
Space Cooling	3.03	59.61	2.09	51.75	0.94	7.86
IAQ Ventilation	0.61	6.39	0.61	6.39	0	0
Water Heating	5.84	59.43	3.51	40.52	2.33	18.91
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	9.87	127.45	8.87	117.76	1	9.69

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD				CF1R-PRF-01-E		
Project Name: Moreno Valley Studio 08 ADU Base			Calculation Date/Time: 2024-10-04T09:17:12-07:00			
Calculation Description: Title 24 Analysis			Input File Name: Moreno Valley Studio08_ADUBase.rib22x			
ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR3) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.39	2.02	2.35	17.04	-1.96	-15.02
Space Cooling	3.03	59.61	2.15	52.8	0.88	6.81
IAQ Ventilation	0.61	6.39	0.61	6.39	0	0
Water Heating	5.84	59.43	3.49	40.44	2.35	18.99
Self Utilization/Flexibility Credit				0		0
South Facing Efficiency Compliance Total	9.87	127.45	8.6	116.67	1.27	10.78
Space Heating	0.39	2.02	2.76	20.36	-2.37	-18.34
Space Cooling	3.03	59.61	2.23	53.87	0.8	5.74
IAQ Ventilation	0.61	6.39	0.61	6.39	0	0
Water Heating	5.84	59.43	3.51	40.63	2.33	18.8
Self Utilization/Flexibility Credit				0		0
West Facing Efficiency Compliance Total	9.87	127.45	9.11	121.25	0.76	6.2

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CFIR-PRF-01-E

Project Name: Moreno Valley Studio 08 ADU Base

(Page 5 of 12)

Calculation Description: Title 24 Analysis

Input File Name: Moreno Valley Studio08_ADUBase.rbd22x

Calculation Date/Time: 2024-10-04T09:17:12-07:00

ENERGY USE INTENSITY

	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage
North Facing				
Gross EUi ¹	46.07	44.24	1.83	3.97
Net EUi ²	19.39	17.55	1.84	9.49
East Facing				
Gross EUi ¹	46.07	44.46	1.61	3.49
Net EUi ²	19.39	17.78	1.61	8.3
South Facing				
Gross EUi ¹	46.07	44.14	1.93	4.19
Net EUi ²	19.39	17.45	1.94	10.01
West Facing				
Gross EUi ¹	46.07	44.41	1.66	3.6
Net EUi ²	19.39	17.73	1.66	8.56

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.

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 Report Version: 2022.0.000
 Schema Version: rev 20220901
 Report Generated: 2024-10-04 09:18:03

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD		CF1R-PRF-01-E
Project Name: Moreno Valley Studio 0B ADU Base	Calculation Date/Time: 2024-10-04T09:17:12-07:00	(Page 6 of 12)
Calculation Description: Title 24 Analysis	Input File Name: Moreno Valley StudioB_ADUBase.ribd22x	

REQUIRED PV SYSTEMS											
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt: Input	Array Angle (deg)	Tilt: [x in 12]	Inverter (kW)	Annual Solar Access (%)
1.4	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7-12	96	98

REQUIRED SPECIAL FEATURES
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. • Exposed slab floor in conditioned zone • Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3) • Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; 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 CF2Rs and CF3Rs are required to be completed in the HERS Registry	
- Indoor air quality ventilation - Kitchen range hood - Verified Refrigerant Charge - Airflow in habitable rooms (SC3.1.4.1.7) - Verified least pump rated heating capacity - Wall-mounted thermostat in zones greater than 150 ft² (SC3.4.5) - Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)	

BUILDING - FEATURES INFORMATION						
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Moreno Valley Studio DB ADU Base	306	1	0	1	0	1

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01-E
Project Name: Moreno Valley Studio 0B ADU Base **Calculation Date/Time:** 2024-10-04T09:17:12-07:00 **(Page 7 of 12)**
Calculation Description: Title 24 Analysis **Input File Name:** Moreno Valley StudioB_ADUBase.ribd22x

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
Studio 08 ADU	Conditioned	Mini Split1	306	9.4	DHW Sys 1	New

OPAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Aslmutb	Orientation	Gross Area (ft²)	Window and Door Area (ft2)	Tilt (deg)
Front Wall	Studio OB ADU	R-19 Wall	0	Front	160	29	90
Right Wall	Studio OB ADU	R-19 Wall	270	Right	144	9	90
Back Wall	Studio OB ADU	R-19 Wall	180	Back	160	10.5	90
Left Wall	Studio OB ADU	R-19 Wall	90	Left	144	15	90

OPAQUE SURFACES - CATHEDRAL CEILINGS										
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Area (ft ²)	Skylight Area (ft ²)	Roof Rise (x in 12)	Roof Reflectance	Roof Emissance	Cool Roof
Roof (cath)	Studio 08 AOU	R-19 Roof No Attic	0	Front	306	0	4	0.1	0.85	No

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)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window A	Window	Front Wall	Front	0			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
Fr Door 1	Window	Front Wall	Front	0			1	20	0.3	NFRC	0.23	NFRC	Bug Screen
Window A	Window	Right Wall	Right	270			1	9	0.3	NFRC	0.23	NFRC	Bug Screen

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD		CF1R-PRF-01-E
Project Name: Moreno Valley Studio 0B ADU Base	Calculation Date/Time: 2024-10-04T09:17:12-07:00	(Page 8 of 12)
Calculation Description: Title 24 Analysis	Input File Name: Moreno Valley StudioB_ADUBase.rbd22x	

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window B	Window	Back Wall	Back	180	1	4.5	0.3	NFRC	0.23	NFRC			Bug Screen
Window C	Window	Back Wall	Back	180	1	6	0.3	NFRC	0.23	NFRC			Bug Screen
Window D	Window	Left Wall	Left	90	1	15	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	Studio 08 ADU	306	70	none	0	0%	No

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-19 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Exterior Finish: 3 Coat Stucco
R-19 Roof No Attic	Cathedral Ceilings	Wood Framed Ceiling	2x8 @ 16 in. O. C.	R-19	None / None	0.054	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/Sheathing/Decking Cavity / Frame: R-19 / 2x8 Inside Finish: Gypsum Board

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T24.1

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project

City of Moreno
Valley Permitted
ADU Plan Set

revisions



description

Example Energy
Calculations

date

project no. 2024_Moreno ADU

drawn by

sheet no.

T24.3

2022 Single-Family Residential Mandatory Requirements Summary	
§ 150.0(a)	Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backup up capacity of 40 amps or more and four or more ESS-supplied branch circuits, or a dedicated runaway from the main service to a subpanel that supplies the branch circuits in § 150.0(a), at least four branch circuits must be identified and have their source calculated as a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipmenttransfer switch within 3' of the main panelboard, with wiring installed between the panelboard and the switch location to allow the connection of feeding power above.
§ 150.0(i)	Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unswitched 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(j)	Electric Cooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unswitched 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(k)	Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unswitched 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

*Exceptions may apply.

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY									
Project Name Moreno Valley Studio 06 ADU Base						Date 10/4/2024			
System Name Mini Split						Floor Area 306			
ENGINEERING CHECKS			SYSTEM LOAD						
Number of Systems			COIL COOLING PEAK			COIL HTG. PEAK			
Heating System			CFM	Sensible	Latent	CFM	Sensible		
Output per System			Total Room Loads						
Total Output (Btu/h)			176			0			
Output (lbm/hp)			Return Vented Lighting			0			
Cooling System			Return Air Ducts			0			
Output per System			Ventilation			0			
Total Output (Btu/h)			Supply Fan			0			
Total Output (lbm/hp)			Supply Air Ducts			0			
Total Output (Btu/hp)			TOTAL SYSTEM LOAD			3,688 BQ			
Total Output (lbm/hp)						5,710			
Air System			HVAC EQUIPMENT SELECTION						
CFM per System			Fujitsu ACU12R2						
Airflow (cfm)			306		10,145		611		8,214
Airflow (cfm/hp)			0.98						
Airflow (cfm/hp)			200.2						
Outside Air (%)			0.0%		10,145		611		8,214
Outside Air (cfm/hp)			0.00						
Notes: values above shown at ARI conditions			TIME OF SYSTEM PEAK						
HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)			Aug 2 PM		Jan 1 AM				
COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)									