



PROJECT:
721 GLENCOE CT.
ADDITION

ADDRESS:
721 GLENCOE CT.
SUNNYVALE CA 94087

TITLE:
T24
ENERGY
COMPLIANCE

CERTIFICATE OF COMPLIANCE
Project Name: Glencoe Ct-Sunnyvale
Calculation Date/Time: 2022-12-13T14:42:32-08:00
(Page 7 of 12)
Input File Name: 21-12134 PHAN ARCH-Glencoe Ct-Sunnyvale.ribd19x

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-38 Roof Attic1	Cathedral Ceilings	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-38	None / None	0.032		Roofing: Light Roof (Metal Tile) Tile Gap: present Roof Deck: Wood Siding/sheathing/decking Radiant Barrier Cavity / Frame: R-38 / 2x4 Inside Finish: Gypsum Board	
-Default Wall Prior to	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R-0	None / None	0.277		Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Other Side Finish: Gypsum Board	
-Default Wall Prior to 19	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R-0	None / None	0.277		Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Other Side Finish: Gypsum Board	
Attic Garage Roof Cons	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-0	None / None	0.412		Roofing: Light Roof (Metal Tile) Tile Gap: present Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	
Attic RoofExisting Floor	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-0	None / None	0.644		Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	
Attic RoofAddition	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-0	None / None	0.412		Roofing: Light Roof (Metal Tile) Tile Gap: present Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	

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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	
Default Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x8 @ 16 in. O.C.	R-0	None / None	0.218		Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x8	
R-19 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x6 @ 16 in. O.C.	R-19	None / None	0.049		Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x6	
R-0 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-0	None / None	0.481		Cavity / Frame: no insul. / 2x4 Inside Finish: Gypsum Board	
Default Roof Prior to 197	Ceilings (below attic)	Wood Framed Ceiling	2x6 @ 16 in. O.C.	R-0	None / None	0.467		Cavity / Frame: no insul. / 2x6 Inside Finish: Gypsum Board	
R-38 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R-38	None / None	0.025		Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board	

BUILDING ENVELOPE - HER'S VERIFICATION

01	02	03	04
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50
Required	Not Required	Not Required	n/a

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WATER HEATING SYSTEMS									
01	02	03	04	05	06	07	08	09	10
Name	System Type	Distribution Type	Water Heater Name (#)	Solar Heating System	Compact Distribution	HERS Verification	Status	Verified Existing Condition	Existing Water Heating System
DHW Sys 1	Domestic Hot Water (DHW)	Standard Distribution System	DHW Heater 1 (1)	n/a		n/a	Existing	No	

WATER HEATERS

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heating Element Type	Tank Type	# of Units	Tank Vol. (gal)	Energy Factor or Efficiency	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st HR. Rating or Flow Rate	NEEA Heat Pump Brand or Model	Tank Location or Ambient Condition	Status	Verified Existing Condition
DHW Heater 1	Gas	Small Storage	1	40	0.58-EF	<=75 kBtu/h	0	78	n/a	n/a	Existing	No	

WATER HEATING - HER'S VERIFICATION

01	02	03	04	05	06	07	08
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Recirculation Control	Central DHW Distribution	Shower Drain Water Heat Recovery	
DHW Sys 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required	Not Required

Registration Number: 221-P010258902B-000-00000000-0000
CA Building Energy Efficiency Standards - 2019 Residential Compliance
Report Version: 2019.1.300
Schema Version: rev 20200901

Registration Date/Time: 2022-12-13 14:45:56
HERS Provider: CalCERTS Inc.
Report Generated: 2022-12-13 14:43:08

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SPACE CONDITIONING SYSTEMS															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name	Required Thermostat Type	Status	Verified Existing Condition	Heating Equipment Count	Cooling Equipment Count					
Furnace/AC1	Heating and cooling system other	Heating Component 1	Cooling Component 1	HVAC Fan 3	Air Distribution System 1	n/a	Existing	No	1	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-75

HVAC - COOLING UNIT TYPES

01	02	03	04	05	06	07	08
Name	System Type	Number of Units	Efficiency EER/CEER	Efficiency SEER	Zonally Controlled	Multi-speed Compressor	HERS Verification
Cooling Component 1	Central split AC	1	9	10	Not Zonal	Single Speed	Cooling Component 1-hers-cool

HVAC - DISTRIBUTION SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
			Duct Ins. R-value	Duct Location		Surface Area									
Name	Type	Design Type	Supply	Return	Supply	Return	Bypass Duct	Duct Leakage	HERS Verification	Status	Verified Existing Condition	Existing Distribution system	New Ducts 40 ft		
Air Distributon System 1	Unconditioned attic	Non-Verified	R-8	R-8	Attic	n/a	n/a	No Bypass Duct	Existing (not specified)	Air Distribution System	Existing + New	No	n/a	n/a	

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HVAC - DISTRIBUTION SYSTEMS															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Design Type	Supply	Return	Supply	Return	Bypass Duct	Duct Leakage	HERS Verification	Status	Verified Existing Condition	Existing Distribution system	New Ducts 40 ft		

HVAC FAN SYSTEMS - HER'S VERIFICATION

01	02	03
Name	Verified Fan Watt Draw	Required Fan Efficacy (Watts/CFM)
HVAC Fan 1-hers-fan	Not Required	0

HERS RATER VERIFICATION OF EXISTING CONDITIONS

PROJECT NOTES															
Standard Building (Compliance)															

Building Safety Division
City of Sunnyvale
Dec 22 2022

For installation in the City of Sunnyvale Subject to code requirements
DIGITAL SET APPROVED
By Jonathan Kawamura
BUILDING-PLUMBING-ELECTRICAL-MECHANICAL
The stamping of this plan shall not be construed to be an approval of the violation of any City or State Law.

JOB COPY
These plans must be kept on the job site at all times.
CITY OF SUNNYVALE

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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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT															
1. I certify that this Certificate of Compliance documentation is accurate and complete.															
Documentation Author Name: Jam Hezar Documentation Author Signature:															
Company: Alliance 24 Title Signature Date: 2022-12-13 14:45:56															
Address: 325 Berry Street CEA/HERS Certification Identification (If applicable): ICC#8099390 and USGBC-LEED AP BD C															
City/State/Zip: San Francisco, CA 94158 Phone: 415-422-9925															

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- 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.
- 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.
- 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 enforcement agency for approval with this building permit application.

Responsible Designer Name: Jam Hezar Responsible Designer Signature:

Company: Alliance 24 Title Date Signed: 2022-12-13 14:45:56

Address: 325 Berry Street License: ICC#8099390 and USGBC-LEED AP BD C

City/State/Zip: San Francisco, CA 94158 Phone: 415-422-9925

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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SCALE:
AS NOTED
SHEET NUMBER:
T24.2