

Passive House Verification

Photo or Drawing



Architecture: Bronwyn Barry/Passive House BB
 Street: 2875 21st Street, #4
 Postcode/City: 94110 San Francisco
 Province/Country: California US-United States of America

Energy consultancy: Steve Mann/Home Energy Services
 Street: 1609 8th Street
 Postcode/City: 94710 Berkeley
 Province/Country: California US-United States of America

Year of construction: 2024
 No. of dwelling units: 1
 No. of occupants: 3.1

Building: Younis/Pang Residence
 Street: 643 55th Street
 Postcode/City: 95819 Sacramento
 Province/Country: California US-United States of America

Building type: Single-family Residence
 Climate data set: Hud--00-Sacramento
 Climate zone: 5: Warm Altitude of location: 23 ft

Home owner / Client: Maria Pang/Laith Younis
 Street: 643 55th Street
 Postcode/City: 95819 Sacramento
 Province/Country: California US-United States of America

Mechanical engineer:
 Street:
 Postcode/City:
 Province/Country:

Certification:
 Street:
 Postcode/City:
 Province/Country:

Interior temperature winter [°F]: 68.0 Interior temp. summer [°F]: 77.0
 Internal heat gains (IHG) heating case [BTU/(hr.ft²)]: 0.75 IHG cooling case [BTU/(hr.ft²)]: 0.75
 Specific capacity [BTU/F per ft² TFA]: 10.6 Mechanical cooling: x

Specific building characteristics with reference to the treated floor area

	Treated floor area ft²		Criteria	Alternative criteria	Fulfilled? ²	
Space heating	Heating demand kBTU/(ft²yr)	2083	≤	4.75	-	yes
	Heating load BTU/(hr.ft²)	3.72	≤	-	3.17	
Space cooling	Cooling & dehum. demand kBTU/(ft²yr)	2.33	≤	4.75	4.75	yes
	Cooling load BTU/(hr.ft²)	4.72	≤	-	3.25	
	Frequency of overheating (> 77 °F) %	-	≤	-	-	
	Frequency of excessively high humidity (> 0.012 lb/lb) %	0.0	≤	10	-	yes
Airtightness	Pressurization test result n ₅₀ 1/hr	0.6	≤	0.6	-	yes
Non-renewable Primary Energy (PE)	PE demand kBTU/(ft²yr)	23.80	≤	-	-	-
Primary Energy Renewable (PER)	PER demand kBTU/(ft²yr)	10.73	≤	14	11	yes
	Generation of renewable energy (in relation to projected building footprint area) kBTU/(ft²yr)	14.39	≥	19	14	

² Empty field: Data missing; "-": No requirement