

Passive House Verification

Photo or Drawing		Building: Watson/Esparza Residence	
		Street: 821 Tamarack Lane	
		Postcode/City: 94086 Sunnyvale	
		Province/Country: CA US-United States of America	
		Building type: SF	
		Climate data set: US0013a-San Jose	
		Climate zone: 5: Warm Altitude of location: 51.816 m	
		Home owner / Client: John Watson & Adrienne Esparza	
		Street: 821 Tamarack Lane	
		Postcode/City: 94086 Sunnyvale	
		Province/Country: CA USA	
Architecture: Essential Habitat Architecture		Mechanical system:	
Street: 249 Sir Francis Drake Blvd.		Street:	
Postcode/City: 94960 San Anselmo		Postcode/City:	
Province/Country: CA USA		Province/Country:	
Energy consultancy: Essential Habitat Architecture		Certification:	
Street: 249 Sir Francis Drake Blvd.		Street:	
Postcode/City: 94960 San Anselmo		Postcode/City:	
Province/Country: CA USA		Province/Country:	
Year of construction: 2019	Interior temperature winter [°C]: 20.0	Interior temp. summer [°C]: 25.0	
No. of dwelling units: 1	Internal heat gains (IHG) heating case [W/m ²]: 2.4	IHG cooling case [W/m ²]: 2.4	
No. of occupants: 2.9	Specific capacity [Wh/K per m ² TFA]: 120	Mechanical cooling: x	

Specific building characteristics with reference to the treated floor area						
	Treated floor area m ²			Criteria	Alternative criteria	Fulfilled? ²
Space heating	Heating demand kWh/(m ² a)	144.3	≤	15	-	yes
	Heating load W/m ²	9	≤	-	10	
Space cooling	Cooling & dehum. demand kWh/(m ² a)	1	≤	15	15	yes
	Cooling load W/m ²	4	≤	-	10	-
	Frequency of overheating (> 25 °C) %	-	≤	-	-	yes
	Frequency excessively high humidity (> 12 g/kg) %	0	≤	10	-	yes
Airtightness	Pressurization test result n ₅₀ 1/h	0.6	≤	0.6	-	yes
Non-renewable Primary Energy (PE)	PE demand kWh/(m ² a)	79	≤	-	-	-
Primary Energy Renewable (PER)	PER demand kWh/(m ² a)	37	≤	60	60	yes
	Generation of renewable energy kWh/(m ² a)	38	≥	-	-	

² Empty field; Data missing; -: No requirement

I confirm that the values given herein have been determined following the PHPP methodology and based on the characteristic values of the building. The PHPP calculations are attached to this verification.

Task: _____ First name: _____ Surname: _____

Issued on: _____ City: _____

Passive House Classic? **yes** Signature: _____