

PHI Low Energy Building Verification

Photo or Drawing		Building: Noble St ADU	
		Street: 453 Noble St	
		Postcode/City: Orange	
		Province/Country: CA US-United States of America	
		Building type: detached single family home	
		Climate data set: us-01-US0120a-Fullerton	
		Climate zone: 5: Warm	Altitude of location: 95.0976 m
Architecture: Lee+Kim Associate		Home owner / Client: Best Techs Contracting	
Street: 500 Shatto Pl		Street: 11873 Valley View St	
Postcode/City: 90020 Los Angeles		Postcode/City: 92845 Garden Grove	
Province/Country: CA US-United States of America		Province/Country: CA US-United States of America	
Energy consultancy: Emu Passive - Enrico Bonilauri		Mechanical engineer: N/A	
Street: 320 E Vine Dr		Street:	
Postcode/City: 80524 Fort Collins		Postcode/City:	
Province/Country: CO US-United States of America		Province/Country:	
Year of construction: 2023		Certification: Marco Filippi	
No. of dwelling units: 1		Street: Piazzetta San Marco	
No. of occupants: 1.5		Postcode/City: Pieve Di Soligo	
		Province/Country: TV Italy	
		Interior temperature winter [°C]: 20.0	Interior temp. summer [°C]: 25.0
		Internal heat gains (IHG) heating case [W/m²]: 3.0	IHG cooling case [W/m²]: 3.0
		Specific capacity [Wh/K per m² TFA]: 60	Mechanical cooling: x

Specific building characteristics with reference to the treated floor area				Alternative criteria		Fulfilled? ²
				Criteria	Alternative criteria	
Space heating	Treated floor area m²	53.1		30	-	yes
	Heating demand kWh/(m²a)	7	≤	-	-	
	Heating load W/m²	11	≤	-	-	
Space cooling	Cooling & dehum. demand kWh/(m²a)	17	≤	32	-	yes
	Cooling load W/m²	12	≤	-	-	
	Frequency of overheating (> 25 °C) %	-	≤	-	-	-
	Frequency of excessively high humidity (> 12 g/kg) %	0	≤	10	-	yes
Airtightness	Pressurization test result n ₅₀ 1/h	1.0	≤	1.0	-	yes
Non-renewable Primary Energy (PE)	PE demand kWh/(m²a)	131	≤	-	-	-
	PER demand kWh/(m²a)	61	≤	75	75	yes
Primary Energy Renewable (PER)	Generation of renewable energy (in relation to projected building footprint area) kWh/(m²a)	0	≥	-	-	

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: **Enrico** Surname: **Bonilauri** City: _____

Issued on: _____

PHI Low Energy Building? **yes** Signature: _____