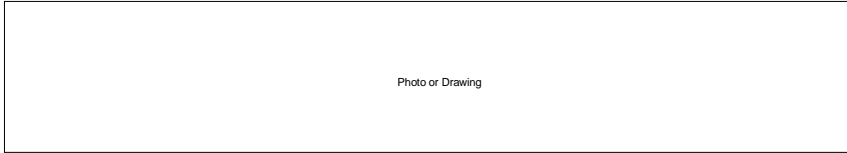


Passive House Verification



Building: **O'Neill Residence Remodel**

Location and Climate: **Sonoma, CA** **Santa Rosa, CA**

Street: **760 Third Street E**

Postcode/City: **Sonoma, CA 95476**

Country: **USA**

Building Type: **Residential**

Home Owner(s) / Client(s):

Street:

Postcode/City:

Architect: **Jarrold Denton, Lail Design Group**

Street: **1505 Main Street**

Postcode/City: **St. Helena, CA 94574, telephone: 707-963-1565**

Mechanical System:

Street:

Postcode/City:

Year of Construction: **2009**

Number of Dwelling Units: **1**

Enclosed Volume V_e : **806.9** m³

Number of Occupants: **2.0**

Interior Temperature: **20.0** °C

Internal Heat Gains: **2.1** W/m²

No Standard Climate

Calculation Electricity / Internal Heat Gains

Building Type:

Internal Heat Gains

Utilisation Pattern:

Type of Values Used:

Planned Number of Occupants:

2 Design

Verification: Monthly Method

Specific Space Heat Demand, Annual Method	14.6
Specific Space Heat Demand, Monthly Method	13.7

Specific Demands with Reference to the Treated Floor Area					
Treated Floor Area: 190.9 m ²					
	Applied:	Monthly Method	PH Certificate:	Fulfilled?	
Specific Space Heat Demand:	14	kWh/(m²a)	15	kWh/(m²a)	Yes
Pressurization Test Result:	0.4	h⁻¹	0.6	h⁻¹	Yes
Specific Primary Energy Demand (DHW, Heating, Cooling, Auxiliary and Household Electricity):	43	kWh/(m²a)	120	kWh/(m²a)	Yes
Specific Primary Energy Demand (DHW, Heating and Auxiliary Electricity):	26	kWh/(m²a)			
Specific Primary Energy Demand Energy Conservation by Solar Electricity:		kWh/(m²a)			
Heating Load:	10	W/m²			
Frequency of Overheating:		%	over 25	°C	
Specific Useful Cooling Energy Demand:	4	kWh/(m²a)	15	kWh/(m²a)	Yes
Cooling Load:	8	W/m²			

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

Issued on: _____

Signed: _____