

# Passive House Verification



**Architecture:** Tannaz Doroudian Tehrani (Draft on Site)  
 Street: 110a-81 Golden Dr  
 Postcode/City: V3K 6R2 Coquitlam  
 Province/Country: Canada

**Energy consultancy:** Tannaz Doroudian Tehrani (Draft on site)  
 Street: 110a-81 Golden Dr  
 Postcode/City: V3K 6R2 Coquitlam  
 Province/Country: Canada

Year of construction: 2019  
 No. of dwelling units: 1  
 No. of occupants: 7.0

**Building:** 25688  
 Street: 62 Ave.  
 Postcode/City: V4W 1L5 Langley township  
 Province/Country: BC CA-Canada  
 Building type: Single Detached  
 Climate data set: CA0063a-Abbotsford  
 Climate zone: 3: Cool-temperate Altitude of location: 78 m

**Home owner / Client:** Mike Carins  
 Street: 25688 62 Ave  
 Postcode/City: V4W 1L5 Langley Township  
 Province/Country: BC CA-Canada

**Mechanical engineer:** Small Planet Energy Inc  
 Street: 674 Homewood Road  
 Postcode/City: V9W 3N5 Campbell River  
 Province/Country: BC CA-Canada

**Certification:** RDH Building Science  
 Street: 4333 Still Creek Drive #400  
 Postcode/City: V5C 6S6 Burnaby  
 Province/Country: BC CA-Canada

Interior temperature winter [°C]: 20.0 Interior temp. summer [°C]: 25.0  
 Internal heat gains (IHG) heating case [W/m²]: 2.2 IHG cooling case [W/m²]: 2.2  
 Specific capacity [Wh/K per m² TFA]: 60 Mechanical cooling:

## Specific building characteristics with reference to the treated floor area

				Criteria	Alternative criteria	Fulfilled? <sup>2</sup>
<b>Space heating</b>	Treated floor area m <sup>2</sup>	432.9				
	Heating demand kWh/(m <sup>2</sup> a)	15	≤	15	-	yes
	Heating load W/m <sup>2</sup>	10	≤	-	10	yes
<b>Space cooling</b>	Cooling & dehum. demand kWh/(m <sup>2</sup> a)	-	≤	-	-	-
	Cooling load W/m <sup>2</sup>	-	≤	-	-	-
	Frequency of overheating (> 25 °C) %	0	≤	10	-	yes
	Frequency of excessively high humidity (> 12 g/kg) %	0	≤	20	-	yes
<b>Airtightness</b>	Pressurization test result n <sub>50</sub> 1/h	0.6	≤	0.6	-	yes
<b>Non-renewable Primary Energy (PE)</b>	PE demand kWh/(m <sup>2</sup> a)	101	≤	120	-	yes
<b>Primary Energy Renewable (PER)</b>	PER demand kWh/(m <sup>2</sup> a)	48	≤	-	-	-
	Generation of renewable energy (in relation to projected building footprint area) kWh/(m <sup>2</sup> a)	-	≥	-	-	-

<sup>2</sup> 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.

**Passive House Classic?** **yes**  
 Signature: \_\_\_\_\_

Task: \_\_\_\_\_ First name: \_\_\_\_\_ Surname: \_\_\_\_\_  
 Issued on: \_\_\_\_\_ City: \_\_\_\_\_