

# Passive House Verification

Photo or Drawing		<b>Building:</b> Dan Sundvick	
		Street:	
		Postcode/City:	
		Province/Country: BC Canada	
		Building type:	
		Climate data set: CA0003d-Vancouver	
		Climate zone: 3: Cool-temperate Altitude of location: 23 m	
		<b>Home owner / Client:</b> Dan & Sharon Sundvick	
		Street:	
		Postcode/City:	
		Province/Country:	
<b>Architecture:</b> Dan Sundvick		<b>Mechanical engineer:</b> Dan Sundvick	
Street: 9025 Royal St		Street:	
Postcode/City: Box 704 Fort Langley		Postcode/City:	
Province/Country: BC Canada		Province/Country:	
<b>Energy consultancy:</b> Dan Sundvick		<b>Certification:</b>	
Street:		Street:	
Postcode/City:		Postcode/City:	
Province/Country:		Province/Country:	
Year of construction: 2020	Interior temperature winter [°C]: 20.0	Interior temp. summer [°C]: 25.0	
No. of dwelling units: 1	Internal heat gains (IHG) heating case [W/m²]: 2.3	IHG cooling case [W/m²]: 2.3	
No. of occupants: 3.2	Specific capacity [Wh/K per m² TFA]: 60	Mechanical cooling:	

**Calculation electricity / Internal heat gains**  
Building type: 1-Residential building

**Internal heat gains**  
Utilisation pattern: 10-Dwelling  
Values: 2-Standard

**Occupancy**  
1-Standard (only for residential buildings)

Specific building characteristics with reference to the treated floor area		Criteria	Alternative criteria	Fulfilled? <sup>2</sup>
Space heating	Treated floor area m²	283.0		
	Heating demand kWh/(m²a)	13.85	15	yes
Space cooling	Heating load W/m²	10	-	yes
	Cooling & dehum. demand kWh/(m²a)	-	-	-
Airtightness	Cooling load W/m²	-	-	-
	Pressurization test result n <sub>50</sub> 1/h	0.6	0.6	yes
Non-renewable Primary Energy (PE)	Frequency of overheating (> 25 °C) %	3	10	yes
	PE demand kWh/(m²a)	55	-	-
Primary Energy Renewable (PER)	Frequency of excessively high humidity (> 12 g/kg) %	0	20	yes
	PER demand kWh/(m²a)	25	60	yes
	Generation of renewable energy (in relation to projected building footprint area) kWh/(m²a)	-	-	yes

Selected climate: CA0003d-Vancouver

1-PE factors (non-renewable) PHI Certification  
(Selected primary energy factors for calculation of PE demand)

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: Dan First name: Sundvick Surname: Issued on: 15-11-19 City: Langley

Passive House Classic? yes Signature:

Building energy standard: 1-Passive House

Class: 1-Class

Verification of primary energy: 2-PER (renewable)

EnerPHit verification method:

New building / Retrofit: 1-New building

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