

# Passive House Verification



**Building:** North Shore Passive House  
**Street:** 418 East 10th Street  
**Postcode/City:** V7L 2E4 North Vancouver  
**Province/Country:** British Columbia CA-Canada  
**Building type:** SFH  
**Climate data set:** CA0003b-Vancouver  
**Climate zone:** 4: Warm-temperate  
**Altitude of location:** 97

**Home owner / Client:** Jerome Valdez and Lynn Frazer  
**Street:** 418 East 10th Street  
**Postcode/City:** V7L 2E4 North Vancouver  
**Province/Country:** British Columbia CA-Canada

**Mechanical system:**  
**Street:**  
**Postcode/City:**  
**Province/Country:**

**Certification:** Andrew Peel  
**Street:** 118 Craigleith Road  
**Postcode/City:** B3Y 0S3 Blue Mountain  
**Province/Country:** Ontario CA-Canada

**Interior temperature winter [°C]:** 20.0  
**Interior temp. summer [°C]:** 25.0  
**Internal heat gains (IHG) heating case [W/m²]:** 2.4  
**IHG cooling case [W/m²]:** 2.4  
**Specific capacity [Wh/K per m² TFA]:** 60  
**Mechanical cooling:**

**Architecture:** Econ Group Ltd  
**Street:** 402-510 Chesterfield Ave  
**Postcode/City:** V7M L9 North Vancouver  
**Province/Country:** British Columbia CA-Canada

**Energy consultancy:** Econ Group Ltd  
**Street:** 402-510 Chesterfield Ave  
**Postcode/City:** V7M L9 North Vancouver  
**Province/Country:** British Columbia CA-Canada

**Year of construction:** 2016  
**No. of dwelling units:** 2  
**No. of occupants:** 5.8

**Interior temperature winter [°C]:** 20.0  
**Interior temp. summer [°C]:** 25.0  
**Internal heat gains (IHG) heating case [W/m²]:** 2.4  
**IHG cooling case [W/m²]:** 2.4  
**Specific capacity [Wh/K per m² TFA]:** 60  
**Mechanical cooling:**

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

	Treated floor area m²	Criteria	Alternative criteria	Fulfilled?
<b>Space heating</b>	Heating demand kWh/(m²a)	15	-	yes
	Heating load W/m²	11	10	-
<b>Space cooling</b>	Cooling & dehum. demand kWh/(m²a)	-	-	yes
	Cooling load W/m²	-	-	yes
	Frequency of overheating (> 25 °C) %	0	10	yes
	Frequency excessively high humidity (> 12 g/kg) %	0	20	yes
<b>Airtightness</b>	Pressurization test result n50 1/h	0.5	0.6	yes
<b>Non-renewable Primary Energy (PE)</b>	PE demand kWh/(m²a)	101	120	yes
<b>Primary Energy Renewable (PER)</b>	PER demand kWh/(m²a)	47	-	-
	Generation of renewable energy kWh/(m²a) (in relation to projected building)	0	-	-

2 Empty fields: Data missing; 0: 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.

**1-Designer:** Marcel  
**Task:** Studer  
**First name:** Marcel  
**Surname:** Studer  
**Issued on:** North Vancouver  
**City:** North Vancouver

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