

# Passive House Verification



**Architecture:** Lukas Armstrong  
 Street: #5 - 320 Vernon St.  
 Postcode/City: BC V1L 4E4 Nelson  
 Province/Country: British Columbia CA-Canada

**Energy consultancy:** Andrew Peel  
 Street: 118 Craigeleith Road  
 Postcode/City: ON L9Y 0S3 Blue Mountains  
 Province/Country: Ontario CA-Canada

Year of construction: 2018  
 No. of dwelling units: 1  
 No. of occupants: 12.0

**Building:** Scott Subaru  
 Street: 50th Avenue  
 Postcode/City: AB T4N4E2 Red Deer  
 Province/Country: Alberta CA-Canada  
 Building type: Car Dealership  
 Climate data set: ud--00-CA0069(a)-Red Deer  
 Climate zone: 2: Cold Altitude of location: 872 m

**Home owner / Client:** Garrett Scott  
 Street: 6801 50th Ave  
 Postcode/City: AB T4N4E2 Red Deer  
 Province/Country: Alberta CA-Canada

**Mechanical engineer:** Keith Mosier  
 Street: PO Box 20020  
 Postcode/City: AB T4N 6X5 Red Deer  
 Province/Country: Alberta CA-Canada

**Certification:** Passive House Institute  
 Street: Rheinstr. 44/46  
 Postcode/City: 64283 Darmstadt  
 Province/Country: Hesse Germany

Interior temperature winter [°C]: 19.4 Interior temp. summer [°C]: 25.0  
 Internal heat gains (IHG) heating case [W/m²]: 2.7 IHG cooling case [W/m²]: 2.7  
 Specific capacity [Wh/K per m² TFA]: 60 Mechanical cooling:

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

Criteria	Treated floor area m²	Value	Comparison	Alternative criteria		Fulfilled? <sup>2</sup>
				Criteria	Alternative criteria	
<b>Space heating</b>	Heating demand kWh/(m²a)	15	≤	15	-	yes
	Heating load W/m²	24	≤	-	10	yes
<b>Space cooling</b>	Cooling & dehum. demand kWh/(m²a)	3	≤	15	15	yes
	Cooling load W/m²	7	≤	-	11	-
	Frequency of overheating (> 25 °C) %	-	≤	-	-	-
	Frequency of excessively high humidity %	0	≤	10	-	yes
<b>Airtightness</b>	Pressurization test result n <sub>50</sub> 1/h	0.4	≤	0.6	-	yes
<b>Non-renewable Primary Energy (PE)</b>	PE demand kWh/(m²a)	147	≤	120	-	No
<b>Primary Energy Renewable (PER)</b>	PER demand kWh/(m²a)	-	≤	-	-	No
	Generation of renewable energy (in relation to projected building footprint area)	-	≥	-	-	

<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**

Task: Designer Stephen First name: Quinn Surname: Quinn  
 Issued on: 04th Nov 2019 City: Toronto  
 Peel Passive House Consulting Ltd.

Signature: *Stephen Quinn*