

# Passive House Verification



**Architecture:** OneSEED Architecture + Interiors  
 Street: 525 Seymour St, unit 611  
 Postcode/City: Vancouver  
 Province/Country: British Columbia CA-Canada

**Energy consultancy:** Harrmann Consulting  
 Street: 3417 West 3rd Avenue  
 Postcode/City: V6R 1L6 Vancouver  
 Province/Country: British Columbia CA-Canada

Year of construction: 2016  
 No. of dwelling units: 2  
 No. of occupants: 5.1

**Building:** Khotso Passive House  
 Street: 36 West 21st Avenue  
 Postcode/City: V5Y 2C9 Vancouver  
 Province/Country: British Columbia CA-Canada  
 Building type: Single Family with secondary suite  
 Climate data set: CA0003b-Vancouver  
 Climate zone: 4: Warm-temperate Altitude of location: 70 m

**Home owner / Client:**  
 Street:  
 Postcode/City:  
 Province/Country:

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

**Certification:** CertiPHlers Cooperative  
 Street: 2963 RW Johnson Blvd SW  
 Postcode/City: 98512 Tumwater  
 Province/Country: Washington US-United States of America

Interior temperature winter [°C]: 20.0 Interior temp. summer [°C]: 25.0  
 Internal heat gains (IHG) heating case [W/m²]: 2.5 IHG cooling case [W/m²]: 2.5  
 Specific capacity [Wh/K per m² TFA]: 132 Mechanical cooling:

Specific building characteristics with reference to the treated floor area				Criteria		Alternative criteria		Fullfilled? <sup>2</sup>
<b>Space heating</b>	Treated floor area m <sup>2</sup>	225.5						
	Heating demand kWh/(m <sup>2</sup> a)	15.25	≤	15	-			yes
	Heating load W/m <sup>2</sup>	10.85	≤	-	10			
<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 excessively high humidity (> 12 g/kg) %	0	≤	20				yes
<b>Airtightness</b>	Pressurization test result n <sub>50</sub> 1/h	0.5	≤	0.6				yes
<b>Non-renewable Primary Energy (PE)</b>	PE demand kWh/(m <sup>2</sup> a)	136	≤	-				-
<b>Primary Energy Renewable (PER)</b>	PER demand kWh/(m <sup>2</sup> a)	60	≤	60	60			yes
	Generation of renewable energy kWh/(m <sup>2</sup> a)	0	≥	-	-			

<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.

Task: 1-Designer First name: Andre Surname: Harrmann  
 Issued on: 22/01/16 City: Vancouver

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