

# Passive House Verification



<b>Building:</b> Residential Building	Postcode/City: 45 W 44 Ave Vancouver
Street: 45 W 44 Ave	Province/Country: British Columbia CA-Canada
Building Type: Multi family residence	Climate data set: CA0003d-Vancouver
Climate zone: 3: Cool-temperate	Altitude of location: 78 m
<b>Home owner / Client:</b> Ken Mah	Street: 45 W 44 Ave
Postcode/City: V5V 2V2	Vancouver
Province/Country: British Columbia	CA-Canada
<b>Mechanical engineer:</b> Zehnder America, Inc.	Street: 6 Merrill Industrial Dr #7
Postcode/City: 03842	Hampton
Province/Country: New Hampshire	US-United States of America
<b>Certification:</b> ZEPHRA Passivhaus Italia	Street: Viale Dante Alighieri, 300
Postcode/City: 38057	Pergine Valsugana
Province/Country: Trento	IT-Italy
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: <input type="checkbox"/>
<b>Architect:</b> DLP Architecture INC	Street: 809-318 Homer Street
Postcode/City: V6B-2V2	Vancouver BC
Province/Country: British Columbia	CA-Canada
<b>Energy consultancy:</b> Barbara Mathuisen - Domus Home Energy	Street: 101 - 1986 East 5th Ave
Postcode/City: V6N 1L7	Vancouver
Province/Country: British Columbia	CA-Canada
Year of construction: 2017	Interior temperature winter (°C): 20,0
No. of dwelling units: 2	Internal heat gains (IHG) heating case [W/m²]: 2,5
No. of occupants: 5,6	Specific capacity [Wh/K per m² TFA]: 132

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

Criteria	Alternative criteria	Fulfilled? <sup>2</sup>
<b>Space heating</b>		
Treated floor area m²	264,4	
Heating demand kWh/(m²a)	15	yes
Heating load W/m²	10	
<b>Space cooling</b>		
Cooling & dehum. demand kWh/(m²a)	-	-
Cooling load W/m²	-	
Frequency of overheating (> 25 °C) %	1	yes
Frequency of excessively high humidity (> 12 g/kg) %	0	yes
Airtightness		
Pressurization test result n50 1/h	0,4	yes
<b>Non-renewable Primary Energy (PE)</b>		
PE demand kWh/(m²a)	106	-
<b>Primary Energy Renewable (PER)</b>		
PER demand kWh/(m²a)	50	
Generation of renewable energy (in relation to projected building footprint area)	0	yes

<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**

<b>2-Certifier</b>	Task:	First name:	Surname:	Signature:
280892-28093_ZEPHRI_PH_20191205_FN	Francesco	Nesi	Pergine Valsugana (TN)	
	Certificate ID	Issued on:	City:	
	06/12/19			

<b>1-Designer</b>	Task:	First name:	Surname:	Signature:
MIPCA_110913_73417057_ENG	Luigi	Picciano		
	Number of Licence of PHPP			

