

Passive House Verification



Architecture: DLP ARCHITECTURE INC
Street: #806 318 HOMER ST
Postcode/City: V6B-2V2 Vancouver
Province/Country: British Columbia CA-Canada

Energy consultancy: DLP ARCHITECTURE INC
Street: #806 318 HOMER ST
Postcode/City: V6B-2V2 Vancouver
Province/Country: British Columbia CA-Canada

Year of construction: 2017
No. of dwelling units: 2
No. of occupants: 5,6

Building: Single Family Residence
Street: 50 W 44 AVE
Postcode/City: V7T 1K9 Vancouver
Province/Country: British Columbia CA-Canada

Building type: Single Family Residence (SFR)
Climate data set: CA0003d-Vancouver
Climate zone: 3: Cool-temperate
Altitude of location: 79 m

Home owner / Client: Ken Mah
Street: 50 W 44 AVE
Postcode/City: V7T 1K9 Vancouver
Province/Country: British Columbia CA-Canada

Mechanical engineer: Zehnder America, Inc
Street: 6 Merrill Industrial Dr #7
Postcode/City: 3842 Hampton
Province/Country: New Hampshire US-United States of America

Certification: ZEPHIR Passivhaus Italia
Street: Via Dante Alighieri 300
Postcode/City: 38057 Pergine Valsugana
Province/Country: Trento Italy

Interior temperature winter [°C]: 20,0
Internal heat gains (IHG) heating case [W/m²]: 2,5
Specific capacity [W/hk per m² TFA]: 132

Interior temp. summer [°C]: 25,0
IHG cooling case [W/m²]: 2,5
Mechanical cooling:

Specific building characteristics with reference to the treated floor area

	Treated floor area m²	Criteria	Alternative criteria	Fulfilled? ²
Space heating	Heating demand KWh/(m²a)	13.7	15	Yes
	Heating load W/m²	9.4	-	10
Space cooling	Cooling & dehum. demand KWh/(m²a)	-	-	-
	Cooling load W/m²	-	-	-
Airtightness	Frequency of overheating (> 25 °C) %	0	10	Yes
	Frequency of excessively high humidity (> 12 g/kg) %	0	20	Yes
Non-renewable Primary Energy (PE)	Pressurization test result n ₅₀ 1/h	0.3	0.6	Yes
	PE demand KWh/(m²a)	108	-	-
Primary Energy Renewable (PER)	PER demand KWh/(m²a)	51	60	Yes
	Generation of renewable energy (in relation to projected building footprint area) KWh/(m²a)	0	-	-

² 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: **Francisco** First name: **Nesi** Surname: **Passive House Classic?** **Yes** Signature:

2-Certifier Task: **Francisco** First name: **Nesi** Surname: **Passive House Classic?** **Yes** Signature:

25082-25083_ZEPHIR_PH_20191203_FN Certificate ID: **12/03/19** Issued on: **Pergine Valsugana (TN)** City:

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.

First name: **Ludio** Surname: **Picciano** MIPCA: **110913_73417057_EN8** Number of license of PHPP: **Passive House Classic?** **Yes** Signature:

