

Passive House Verification



Architecture: ONE SEED Architecture + Interiors Inc.
 Street: 3230 Henderson Road
 Postcode/City: V8P 5A4 Victoria
 Province/Country: British Columbia CA-Canada

Energy consultancy: JRG Building Engineering Inc.
 Street: 205-1682 W 7th Avenue
 Postcode/City: V6J 4S6 Vancouver
 Province/Country: British Columbia CA-Canada

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

Building: Lipkowitz Duplex
 Street: 3235 W 12th Avenue
 Postcode/City: V6K 2R9 Vancouver
 Province/Country: British Columbia CA-Canada
 Building type: Duplex
 Climate data set: CA0003d-Vancouver
 Climate zone: 3: Cool-temperate Altitude of location: 21 m

Home owner / Client: Lana Lipkowitz
 Street:
 Postcode/City:
 Province/Country:

Mechanical engineer: Ecolighten Energy Solutions
 Street: 201-1515 Barrow Street
 Postcode/City: V7J 1B7 North Vancouver
 Province/Country: British Columbia, Canada

Certification: CertiPHlers Cooperative
 Street:
 Postcode/City:
 Province/Country: Portland, Oregon, USA

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]: 60 Mechanical cooling: x

The PHPP has not been filled completely; it is not valid as verification

Specific building characteristics with reference to the treated floor area				Alternative criteria		Fulfilled? ²
				Criteria	criteria	
Space heating	Treated floor area m²	269,0				
	Heating demand kWh/(m²a)	14,05	≤	15	-	yes
	Heating load W/m²	10,09	≤	-	10	yes
Space cooling	Cooling & dehum. demand kWh/(m²a)	2	≤	15	15	yes
	Cooling load W/m²	2	≤	-	10	-
	Frequency of overheating (> 25 °C) %	-	≤	-	-	yes
	Frequency of excessively high humidity (> 12 g/kg) %	0	≤	10	-	yes
Airtightness	Pressurization test result n ₅₀ 1/h	0,6	≤	0,6	-	yes
Non-renewable Primary Energy (PE)	PE demand kWh/(m²a)	105,25	≤	-	-	-
Primary Energy Renewable (PER)	PER demand kWh/(m²a)	48,57	≤	45	49	no
	Generation of renewable energy (in relation to projected kWh/(m²a) building footprint area)	57	≥	60	69	

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.

Passive House Plus? Signature:

Task: 1-Designer First name: Kenneth Surname: Chan
 Issued on: 28-10-20 City: Vancouver, BC