

PHI Low Energy Building Verification



Architecture: One Seed Architecture
 Street:
 Postcode/City:
 Province/Country:

Energy consultancy: Sara Malekpour
 Street: 803-1320 Chesterfield Ave
 Postcode/City: North Vancouver
 Province/Country: BC CA-Canada

Year of construction: 2020
 No. of dwelling units: 1
 No. of occupants: 2,3

Building: Doherty Passive House
 Street: 9824 Pemberton Portage road
 Postcode/City: Pemberton
 Province/Country: BC CA-Canada
 Building type: Single Family
 Climate data set: CA0022a-Whistler
 Climate zone: 3: Cool-temperate Altitude of location: 282 m

Home owner / Client: Jane and Michael Doherty
 Street:
 Postcode/City:
 Province/Country:

Mechanical engineer:
 Street:
 Postcode/City:
 Province/Country:

Certification: Christina Snyder
 Street:
 Postcode/City:
 Province/Country:

Interior temperature winter [°C]: 20,0 Interior temp. summer [°C]: 25,0
 Internal heat gains (IHG) heating case [W/m²]: 2,6 IHG cooling case [W/m²]: 2,8
 Specific capacity [Wh/K per m² TFA]: 60 Mechanical cooling:

Specific building characteristics with reference to the treated floor area

	Treated floor area m²	Value	Comparison	Alternative		Fullfilled? ²
				Criteria	criteria	
Space heating	Heating demand kWh/(m²a)	30	≤	30	-	yes
	Heating load W/m²	23	≤	-	-	-
Space cooling	Cooling & dehum. demand kWh/(m²a)	-	≤	-	-	-
	Cooling load W/m²	-	≤	-	-	-
	Frequency of overheating (> 25 °C) %	4	≤	10	-	yes
	Frequency of excessively high humidity (> 12 g/kg) %	0	≤	20	-	yes
Airtightness	Pressurization test result n ₅₀ 1/h	1,0	≤	1,0	-	yes
Non-renewable Primary Energy (PE)	PE demand kWh/(m²a)	151	≤	-	-	-
Primary Energy Renewable (PER)	PER demand kWh/(m²a)	74	≤	75	75	yes
	Generation of renewable energy (in relation to projected building footprint area)	1	≥	-	-	-

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.

PHI Low Energy Building? **yes**
 Signature: _____

Task: 1-Designer First name: Sara Surname: Malekpour
 Issued on: 03-07-20 City: Vancouver