

Passive House Verification



Building: Nakusp Triplex
 Street: 95 7th Avenue SW
 Postcode/City: V0G 1R0 Nakusp
 Province/Country: BC CA-Canada
 Building type: Residential Triplex
 Climate data set: ud--02-CA0058a-Nelson
 Climate zone: 3: Cool-temperate Altitude of location: 446 m

Home owner / Client: Molly Bell
 Street: PO Box 1151
 Postcode/City: V0G 1R0 Nakusp
 Province/Country: BC CA-Canada

Mechanical system: Rocky Point Engineering Ltd.
 Street: #201-1420 St. Paul Street
 Postcode/City: V1Y 2E6 Kelowna,
 Province/Country: BC CA-Canada

Certification: Peel Passive House Consulting
 Street: 118 Craigeleith Rd
 Postcode/City: L9Y 0S3 Blue Mountains
 Province/Country: ON CA-Canada

Year of construction:	2016	Interior temperature winter [°C]:	20.0	Interior temp. summer [°C]:	25.0
No. of dwelling units:	3	Internal heat gains (IHG) heating case [W/m²]:	2.5	IHG cooling case [W/m²]:	2.5
No. of occupants:	7.8	Specific capacity [Wh/K per m² TFA]:	60	Mechanical cooling:	

Architecture: Cover Architectural Collaborative
 Street: #5 - 320 Vernon Avenue
 Postcode/City: V1L 4E4 Nelson
 Province/Country: BC CA-Canada

Energy consultancy: Harrmann Consulting
 Street: Körnerstrasse 34
 Postcode/City: 4107 Leipzig
 Province/Country: DE-Germany

Specific building characteristics with reference to the treated floor area				Alternative criteria		Fulfilled? ²
	Treated floor area m ²			Criteria	Alternative criteria	
Space heating	Heating demand kWh/(m ² a)	343.9	≤	15	-	yes
	Heating load W/m ²	11	≤	-	10	
Space cooling	Cooling & dehum. demand kWh/(m ² a)	-	≤	-	-	-
	Cooling load W/m ²	-	≤	-	-	
	Frequency of overheating (> 25 °C) %	5	≤	10		yes
	Frequency excessively high humidity (> 12 g/kg) %	0	≤	20		yes
Airtightness	Pressurization test result n ₅₀ 1/h	0.3	≤	0.6		yes
Non-renewable Primary Energy (PE)	PE demand kWh/(m ² a)	131	≤	-		-
Primary Energy Renewable (PER)	PER demand kWh/(m ² a)	58	≤	60	60	yes
	Generation of renewable energy kWh/(m ² a)	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.

Passive House Classic? **yes**

Task: 2-Certifier First name: Andrew Surname: Peel
 Certificate ID: 16725-16727_APC_PH_20170926_AP Issued on: 27-09-17 City: Blue Mountains, Ontario

Signature: