

# Passive House Verification



**Architecture:** Fougere Architecture  
 Street: 2425 Quebec Street  
 Postcode/City: Vancouver  
 Province/Country: BC Canada  
**Energy consultancy:** Marken Econsult - Alexander Maurer  
 Street: Riedstr 7  
 Postcode/City: 6914 Hohenweiler  
 Province/Country: Vlbg Austria  
 Year of construction: 2020  
 No. of dwelling units: 10  
 No. of occupants: 19.4

**Building:** North Vancouver Townhomes - Building 1  
 Street: 632 East 3rd AVE  
 Postcode/City: North Vancouver  
 Province/Country: BC Canada  
 Building type: Townhouse Complex  
 Climate data set: CA0003b-Vancouver  
 Climate zone: 4: Warm-temperate Altitude of location: 46 m  
**Home owner / Client:** Western Belleville Development  
 Street: East 3rd AVE  
 Postcode/City: North Vancouver  
 Province/Country: BC Canada  
**Mechanical system:** Rocky Point Engineering  
 Street: #102-211 West Georgia Street  
 Postcode/City: Vancouver  
 Province/Country: Bc Canada  
**Certification:** N/A  
 Street:  
 Postcode/City:  
 Province/Country:  
 Interior temperature winter [°C]: 20.0  
 Interior temp. summer [°C]: 25.0  
 Internal heat gains (IHG) heating case [W/m<sup>2</sup>]: 2.8  
 IHG cooling case [W/m<sup>2</sup>]: 3.3  
 Specific capacity [Wh/K per m<sup>2</sup> TFA]: 60  
 Mechanical cooling:

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

	Treated floor area m <sup>2</sup>		Criteria	Alternative criteria	Fulfilled? <sup>2</sup>
<b>Space heating</b>	Heating demand kWh/(m <sup>2</sup> a)	755.0	15	-	yes
	Heating load W/m <sup>2</sup>	9.68	-	10	
<b>Space cooling</b>	Cooling & dehum. demand kWh/(m <sup>2</sup> a)	-	-	-	-
	Cooling load W/m <sup>2</sup>	-	-	-	-
	Frequency of overheating (> 25 °C) %	3.81	10	-	yes
	Frequency excessively high humidity (> 12 g/kg) %	0.27	20	-	yes
<b>Airtightness</b>	Pressurization test result n <sub>50</sub> 1/h	0.60	0.6	-	yes
<b>Non-renewable Primary Energy (PE)</b>	PE demand kWh/(m <sup>2</sup> a)	125.79	120	-	no
<b>Primary Energy Renewable (PER)</b>	PER demand kWh/(m <sup>2</sup> a)	98.68	-	-	-
	Generation of renewable energy kWh/(m <sup>2</sup> a)	0.00	-	-	

<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?**  no  
 Signature:

Task: 1-Designer First name: Alexander Surname: Maurer  
 Issued on: 1. June 2020 City: Vancouver