

Passive House Verification



Building: Tantrum Bike Shop and Offices
Street: First Street E
Postcode/City: V0E 2S0 Revelstoke
Province/Country: British Columbia CA-Canada
Building type: Commercial
Climate data set: ud-01-CA0073a-Revelstoke
Climate zone: 2: Cold Altitude of location: 455.43 m
Home owner / Client: Tantrum Holding Corporation
Street: First Street E
Postcode/City: V0E 2S0 Revelstoke
Province/Country: British Columbia CA-Canada
Mechanical engineer: WSP Group
Street: 301-3600 Uptown Boulevard
Postcode/City: V8Z0B9 Victoria
Province/Country: British Columbia CA-Canada
Certification: CertiPHlers Cooperative
Street: 539 SE 59th Court
Postcode/City: 97215 Portland
Province/Country: Oregon US-United States of America

Architecture: Stark Architecture Ltd.
Street: 316-402 W Pender Street
Postcode/City: V6B 1T6 Vancouver
Province/Country: British Columbia CA-Canada
Energy consultancy: (Stark Architecture Ltd.) and Tree Construction Inc.
Street: 600 Victoria Rd
Postcode/City: V0E2S1 Revelstoke
Province/Country: BC CA-Canada
Year of construction: 2019
No. of dwelling units: 1
No. of occupants: 26.0

Interior temperature winter [°C]: 20.0
Interior temp. summer [°C]: 25.0
Internal heat gains (IHG) heating case [W/m²]: 3.8
IHG cooling case [W/m²]: 3.8
Specific capacity [Wh/K per m² TFA]: 132
Mechanical cooling:

Calculation electricity / Internal heat gains
Building type: 2-Non-residential building
Internal heat gains
Utilisation pattern: 20-Office / Admin. building
Values: 4-PHPP calculation (IHG non-res' worksheet)
Occupancy
26 2-User determined

Specific building characteristics with reference to the treated floor area		Criteria	Alternative criteria	Fulfilled? ²
Space heating	Treated floor area m ²	509.2		
	Heating demand kWh/(m ² a)	14.023	15	yes
	Heating load W/m ²	9.597	10	yes
Space cooling	Cooling & dehum. demand kWh/(m ² a)	-	-	-
	Cooling load W/m ²	-	-	-
	Frequency of overheating (> 25 °C) %	1	10	yes
	Frequency of excessively high humidity (> 12 g/kg) %	0	20	yes
Airtightness	Pressurization test result n ₅₀ 1/h	0.4	0.6	yes
Non-renewable Primary Energy (PE)	PE demand kWh/(m ² a)	119	-	-
Primary Energy Renewable (PER)	PER demand kWh/(m ² a)	55.57	60	yes
	Generation of renewable energy (in relation to pro-jected kWh/(m ² a) building footprint area)	0	-	yes

² Empty field; Data missing; "-": No requirement

Selected climate:
 ud-01-CA0073a-Revelstoke
1-PE factors (non-renewable) PHI Certification
 (Selected primary energy factors for calculation of PE demand)

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: 2-Certifier **First name:** Tad **Surname:** Everhart
Certificate ID: 25609-25613_CCO_PH_20200310_TE **Issued on:** 3.10.2020 **City:** Portland, Oregon USA
Passive House Classic? yes

Building energy standard: 1-Passive House
Class: 1-Classical
Verification of primary energy: 2-PER (renewable)
EnerPHit verification method:
New building / Retrofit: 1-New building