

Certificate

Certified Passive House Classic



Herz & Lang GmbH
Die Planer für energieeffizientes Bauen
Ritzensonnenhalb 5a
87480 Weitnau, Germany

Authorised
by:



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Germany

Facilities Management Building - UNBC 3333 University Way, V2N 4Z9 Prince George, Canada



Client	UNBC 3333 University Way V2N 4Z9 Prince George, Canada
Architect	Vincent Siu Architect AIBC, Siu Architecture Inc. 2323 West 18th Ave. V6L 1A7 Vancouver, Canada
Contractors	Erik Olofsson Construction - Vancouver Brownridge Developments - Chris Brown
Energy Consultant	Kim Walton - Bow Crow Design RR # 2 T0M 1X0 Sundre, Canada

Passive House buildings offer excellent thermal comfort and very good air quality all year round. Due to their high energy efficiency, energy costs as well as greenhouse gas emissions are extremely low.

The design of the above-mentioned building meets the criteria defined by the Passive House Institute for the 'Passive House Classic' standard:

Building quality		This building	Criteria	Alternative criteria
Heating	Heating demand [kWh/(m ² a)]	15	≤ 15	-
	Heating load [W/m ²]	14	≤ -	10
Cooling	Cooling + dehumidification demand [kWh/(m ² a)]	2	≤ 15	15
	Cooling load [W/m ²]	2	≤ -	11
	Frequency of overheating (> 25 °C) [%]	-	≤ -	-
	Frequency of excessively high humidity [%]	0	≤ 10	-
Airtightness	Pressurization test result (n ₅₀) [1/h]	0.5	≤ 0.6	-
Non-renewable primary energy (PE)	PE demand [kWh/(m ² a)]	110	≤ 120	-
Renewable primary energy (PER)	PER-demand [kWh/(m ² a)]	99	≤ -	-
	Generation (reference to ground area) [kWh/(m ² a)]	0	≥ -	-

The associated certification booklet contains more characteristic values for this building.

Weitnau, 09. April 2021

Certifier: Florian Lang - Raphaël Vibert, Herz & Lang GmbH