Passive House Verification

Building:	Rodgers Passive House		
Street:	2945 Colwood Drive		
Postcode/City:	V7R 2R3	North Vancouver	
Province/Country:	British Columbia	CA-Canada	
Building type:	Single Family dwelling		
Climate data set:	CA0003d-Vancouver		
Climate zone:	3: Cool-temperate	Altitude of location:	86 m
Home owner / Client:	Adam Alteens		
Street:	2945 Colwood Drive		
Postcode/City:	V7R 2R3	North Vancouver	
Province/Country:	British Columbia	CA-Canada	

Architecture:	Randy Bens Architect		
Street:	1833 Edinburgh Street		
Postcode/City:	V3M 2X2	New Westminster	
Province/Country:	British Columbia	CA-Canada	
Energy consultancy:	RDH Building Science Inc.		
Street:	224 W 8th Avenue		
Postcode/City:	V5Y 1N5	Vancouver	
Province/Country:	British Columbia	CA-Canada	

Mechanical engineer:			
Street:			
Postcode/City:			
Province/Country:			
Certification:	MIZU Passive House Consulting		
Street:	2010 Dublin Street		
Postcode/City:	V3M 3A7	New Westminster	
Province/Country:	British Columbia	CA-Canada	

Year of construction:	2017	Interior temperature winter [°C]:	20.0
No. of dwelling units:	1	Internal heat gains (IHG) heating case [W/m²]:	2.2
No. of occupants:	3.3	Specific capacity [Wh/K per m² TFA]:	60

Interior temp. summer [°C]:	25.0	
IHG cooling case [W/m²]:	2.2	
Mechanical cooling:		

Specific building characteristics with reference to the treated floor area

					Criteria	Alternative criteria	Fullfilled?[2]
	Treated floor area	m²	390.7				
Space heating	Heating demand	kWh/(m²a)	10.25	≤	15	-	yes
	Heating load	W/m²	8.30	≤	-	10	
Space cooling	Cooling & dehum. demand	kWh/(m²a)	-	≤	-	-	-
	Cooling load	W/m²	-	≤	-	-	
	Frequency of overheating (> 25 °C)	%	0.7	≤	10		yes
	Frequency of excessively high humidity (> 12 g/kg)	%	0	≤	20		yes
Airtightness	Pressurization test result n_{50}	1/h	0.6	≤	0.6		yes
Non-renewable Primary Energy (PE)	PE demand	kWh/(m²a)	48.81	≤	-		-
Primary Energy Renewable (PER)	PER demand	kWh/(m²a)	21.56	≤	45	30	yes
	Generation of renewable energy (in relation to projected building footprint area)	kWh/(m²a)	33.09	≥	60	32	

[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 Plus? yes

Task:	First name:	Surname:	Signature:
1-Designer	Sherman	Wai	

Issued on:		City: