

Passive House verification



Building:	Cottonwood Passive House		
Street:	17 Cottonwood Crescent		
Postcode / City:	Fort Saskatchewan AB T8L 0H8		
Country:	Canada		
Building type:	Single-family Residential		
Climate:	Edmonton (PHPP v9.6a)	Altitude of building site (in [m] above sea level):	624
Home owner / Client:	Jim and Emilie Zeibin		
Street:	103 - 9612 Sherridon Drive		
Postcode/City:	Fort Saskatchewan AB T8L 1W6		
Architecture:	David Zeibin, Architect AIBC MRAIC LEED AP BD+C		
Street:	309 - 2490 Stephens St		
Postcode / City:	Vancouver BC V6K 3W9		
Mechanical system:	Stuart Fix, Peng (ReNu Building Systems)		
Street:	52 Airport Road		
Postcode / City:	Edmonton AB T5G 0W7		
Year of construction:	2013	Interior temperature winter:	20.0 °C
No. of dwelling units:	1	Interior temperature summer:	25.0 °C
No. of occupants:	7.0	Internal heat sources winter:	2.1 W/m ²
Spec. capacity:	84 Wh/K per m ² TFA	Ditto summer:	4.6 W/m ²
		Enclosed volume V _e m ³ :	1172.3
		Mechanical cooling:	

Specific building demands with reference to the treated floor area				
	Treated floor area	Requirements	Fulfilled?*	
Space heating	Heating demand	15 kWh/(m ² a)	15 kWh/(m ² a)	yes
	Heating load	12 W/m ²	10 W/m ²	-
Space cooling	Overall specif. space cooling demand	kWh/(m ² a)	-	-
	Cooling load	W/m ²	-	-
	Frequency of overheating (> 25 °C)	7 %	-	-
Primary energy	Heating, cooling, dehumidification, DHW, auxiliary electricity, lighting, electrical appliances	120 kWh/(m ² a)	120 kWh/(m ² a)	yes
	DHW, space heating and auxiliary electricity	79 kWh/(m ² a)	-	-
	Specific primary energy reduction through solar electricity	kWh/(m ² a)	-	-
Airtightness	Pressurization test result n ₅₀	0.4 1/h	0.6 1/h	yes

* empty field: data missing; '-': no requirement

Passive House?	yes
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We 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 application.	Passive House Certifier Name:	Andrew	PHPP Version 8.4
	Surname:	Peel	Registration number PHPP: MIPCA_110913_22077771_en8
	Company:	Peel Passive House Consulting Ltd.	Issued on: 22/01/2019
			Signature: