

# Passive House Verification



<b>Building:</b>	Lorimer Residence		
Street:	126 Morris Island Drive		
Postcode/City:	K7S3G7	Ottawa	
Province/Country:	Ontario	Canada	
Building type:	Residence (Single Family)		
Climate data set:	CA0004b-Ottawa		
Climate zone:	2: Cold	Altitude of location:	80.4 m
<b>Home owner / Client:</b>	Carolyn & Rebecca Lorimer		
Street:	126 Morris Island Drive		
Postcode/City:	K7S3G7	Ottawa	
Province/Country:	Ontario	Canada	
<b>Mechanical engineer:</b>			
Street:			
Postcode/City:			
Province/Country:			
<b>Certification:</b>			
Street:			
Postcode/City:			
Province/Country:			
Year of construction:	2022	Interior temperature winter [°C]:	20.0
No. of dwelling units:	1	Interior temp. summer [°C]:	25.0
No. of occupants:	3.2	Internal heat gains (IHG) heating case [W/m <sup>2</sup> ]:	2.3
		IHG cooling case [W/m <sup>2</sup> ]:	2.3
		Specific capacity [Wh/K per m <sup>2</sup> TFA]:	60
		Mechanical cooling:	

<b>Architecture:</b>			
Street:			
Postcode/City:			
Province/Country:			
<b>Energy consultancy:</b>			
Street:			
Postcode/City:			
Province/Country:			

Specific building characteristics with reference to the treated floor area						
				Criteria	Alternative criteria	Fullfilled? <sup>2</sup>
<b>Space heating</b>	Treated floor area m <sup>2</sup>	254.8				
	Heating demand kWh/(m <sup>2</sup> a)	12	≤	15	-	yes
	Heating load W/m <sup>2</sup>	9	≤	-	10	yes
<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) %	0	≤	10		yes
	Frequency of excessively high humidity (> 12 g/kg) %	0	≤	20		yes
<b>Airtightness</b>	Pressurization test result n <sub>50</sub> 1/h	0.6	≤	0.6		yes
<b>Non-renewable Primary Energy (PE)</b>	PE demand kWh/(m <sup>2</sup> a)	79	≤	-		-
<b>Primary Energy Renewable (PER)</b>	PER demand kWh/(m <sup>2</sup> a)	42	≤	30	42	yes
	Generation of renewable energy (in relation to projected building footprint area) kWh/(m <sup>2</sup> a)	168	≥	120	146	

<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.

Task: \_\_\_\_\_ First name: \_\_\_\_\_ Surname: \_\_\_\_\_

Issued on: \_\_\_\_\_ City: \_\_\_\_\_

Passive House Premium? **yes** Signature: \_\_\_\_\_