

# Passive House Verification

Photo or Drawing



Architecture: **Coolearth Architecture Inc**

Street:

Postcode/City:

Province/Country:

Energy consultancy: **Coolearth Architecture Inc**

Street:

Postcode/City:

Province/Country:

Year of construction: **2018**

No. of dwelling units: **1**

No. of occupants: **3.2**

Interior temperature winter [°C]: **20.0**

Internal heat gains (IHG) heating case [W/m<sup>2</sup>]: **2.3**

Specific capacity [Wh/K per m<sup>2</sup> TFA]: **60**

Interior temp. summer [°C]: **25.0**

IHG cooling case [W/m<sup>2</sup>]: **2.3**

Mechanical cooling: **x**

Building: **Single Detached House**

Street:

Postcode/City: **Richmond Hill**

Province/Country: **Ontario** **Canada**

Building type: **Single Detached House**

Climate data set: **CA0001b-Toronto**

Climate zone: **3: Cool-temperate** Altitude of location: **187 m**

Home owner / Client:

Street:

Postcode/City:

Province/Country:

Mechanical engineer:

Street:

Postcode/City:

Province/Country:

Certification:

Street:

Postcode/City:

Province/Country:

## Specific building characteristics with reference to the treated floor area

				Criteria	Alternative criteria	Fulfilled? <sup>2</sup>
<b>Space heating</b>	Treated floor area m <sup>2</sup>	<b>289.0</b>				
	Heating demand kWh/(m <sup>2</sup> a)	<b>12</b>	≤	15	-	<b>yes</b>
	Heating load W/m <sup>2</sup>	<b>11</b>	≤	-	10	<b>yes</b>
<b>Space cooling</b>	Cooling & dehum. demand kWh/(m <sup>2</sup> a)	<b>5</b>	≤	15	15	<b>yes</b>
	Cooling load W/m <sup>2</sup>	<b>3</b>	≤	-	10	<b>yes</b>
	Frequency of overheating (> 25 °C) %	<b>-</b>	≤	-	-	<b>-</b>
	Frequency of excessively high humidity (> 12 g/kg) %	<b>0</b>	≤	10	-	<b>yes</b>
<b>Airtightness</b>	Pressurization test result n <sub>50</sub> 1/h	<b>0.6</b>	≤	0.6	-	<b>yes</b>
<b>Non-renewable Primary Energy (PE)</b>	PE demand kWh/(m <sup>2</sup> a)	<b>59</b>	≤	120	-	<b>yes</b>
<b>Primary Energy Renewable (PER)</b>	PER demand kWh/(m <sup>2</sup> a)	<b>27</b>	≤	-	-	<b>-</b>
	Generation of renewable energy (in relation to projected building footprint area) kWh/(m <sup>2</sup> a)	<b>0</b>	≥	-	-	<b>-</b>

<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.

Passive House Classic? **yes**

Task:

First name:

Surname:

Signature:

Issued on:

City: