

# Certificate

Certified retrofit  
'EnerPHit Classic'  
(Climate zone: Cool-temperate)



118 Craigeleith Road  
Blue Mountains, ON  
L9Y 0S3

Authorised  
by:



Dr. Wolfgang Feist  
64283 Darmstadt  
Germany

**5485 South Ellis Avenue**  
**5485 South Ellis Avenue, 60615, Illinois Chicago,**  
**United States of America**



Client	Kenwood Construction Services 5485 South Ellis Avenue 60615, Illinois Chicago, USA
Architect	Richard Kasemsarn, makeArchitecture 559 West Surf Street 60615, Illinois Chicago, USA
Building Services	ZeroEnergy Design 156 Milk Street, Suite 3 2109, Massachusetts Boston, USA
Energy Consultant	ZeroEnergy Design 156 Milk Street, Suite 3 2109, Massachusetts Boston, USA

Buildings retrofitted to the EnerPHit Standard 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 modernization to the 'EnerPHit Classic' standard:

Building quality			This building	Criteria	Alternative criteria
Heating	Heating demand	[kWh/(m²a)]	25	≤	25
Cooling	Frequency of overheating (> 25 °C)	[%]	-	≤	-
Airtightness	Pressurization test result (n <sub>50</sub> )	[1/h]	0.6	≤	1.0
Renewable primary energy (PER)	PER-demand	[kWh/(m²a)]	48	≤	-
	Generation (reference to ground area)	[kWh/(m²a)]	0	≥	-
Component quality					
	Building envelope to ambient air (U-value)	[W/(m²K)]	0.13	≤	-
	Building envelope to ground (U-value)	[W/(m²K)]	0.16	≤	-
Windows/Exterior doors (U <sub>w,installed</sub> )		[W/(m²K)]	-	≤	-
	Glazing (g-value)	[-]	0.60	≥	-
	Glazing/shading (max. solar load)	[kWh/(m²a)]	224	≤	-
	Ventilation (effect. heat recovery efficiency)	[%]	73	≥	-

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

Blue Mountains, 19 July 2019

Certifier: Andrew Peel, Peel Passive House Consulting