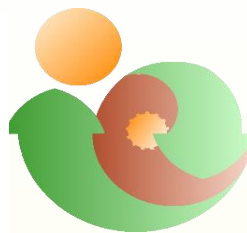


Certificate

Certified Passive House Classic

Earth Cycle
Technologies

10 Springfield
Wicklow Town
Co. Wicklow



Authorised
by:



Passive House
Institute

Dr. Wolfgang Feist
64283 Darmstadt
Germany

Residence for Esther Molony

(address removed for privacy) **Co.Kildare, Ireland**



Client	Esther Molony (address removed for privacy) Co.Kildare, Ireland
Architect	Peter H. Lohr Lena-Christ-Str.124a 82194 Gröbenzell - Germany
Building Services	Scandinavian Homes Ltd Tooreeny Moycullen, Co.Galway
Energy Consultant	Peter H. Lohr Lena-Christ-Str.124a 82194 Gröbenzell - Germany

Passive House buildings 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 the 'Passive House Classic' standard:

Building quality		This building	Criteria	Alternative criteria	
Heating	Heating demand [kWh/(m ² a)]	10	≤	15	-
	Heating load [W/m ²]	7	≤	-	10
Cooling	Frequency of overheating (> 25 °C) [%]	0	≤	10	-
Airtightness	Pressurization test result (n ₅₀) [1/h]	0.3	≤	0.6	-
Renewable primary energy (PER)	PER-demand [kWh/(m ² a)]	32	≤	60	-
	Generation (reference to ground area) [kWh/(m ² a)]	-	≥	-	-

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

Certifier: Robert Ryan, Earth Cycle Technologies - Robert Ryan