

Certificate

Certified Passive House Classic

homeGrid

Authorised
by:


**Passive House
Institute**
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Casa Carromeu

Mira, Portugal



Client	
Architect	Homegrid
Building Services	MIRACLIMA Unipessoal
Energy Consultant	Sofia Gomes Soares

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/(m²a)]	4	≤	15	-
	Heating load [W/m²]	8	≤	-	10
Cooling	Frequency of overheating (> 25 °C) [%]	2	≤	10	
	Frequency of excessively high humidity [%]	11	≤	20	
Airtightness					
	Pressurization test result (n ₅₀) [1/h]	0.2	≤	0.6	
Renewable primary energy (PER)					
	PER-demand [kWh/(m²a)]	32	≤	60	60
	Generation (reference to ground area) [kWh/(m²a)]	19	≥	-	-

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

Ílhavo

9 October 2026

Certifier: João Marcelino, João Marcelino - Homegrid, Lda