

# Certificate

Certified Passive House Plus

homeGrid<sup>®</sup> Authorised  
by:



## Habitação Unifamiliar

Portugal



Client	
Architect	LDS
Building Services	Climacom
Energy Consultant	Esperança Isabel Vieira Lopes de Azevedo

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 Plus' standard:

Building quality			This building		Criteria	Alternative criteria
Heating	Heating demand	[kWh/(m <sup>2</sup> a)]	3	≤	15	-
	Heating load	[W/m <sup>2</sup> ]	8	≤	-	10
Cooling	Cooling + dehumidification demand	[kWh/(m <sup>2</sup> a)]	7	≤	15	
	Frequency of excessively high humidity	[%]	2	≤	10	
Airtightness						
	Pressurization test result	(n <sub>50</sub> ) [1/h]	0.6	≤	0.6	
Renewable primary energy (PER)						
	PER-demand	[kWh/(m <sup>2</sup> a)]	21	≤	45	30
	Generation (reference to ground area)	[kWh/(m <sup>2</sup> a)]	103	≥	60	39

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

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02/10/2025

Certifier: João Marcelino - Homegrid, Lda