

Certificate

Certified retrofit
'EnerPHit Classic'
(Climate zone: Warm)

homeGrid[®] Authorised
by:



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64283 Darmstadt
Germany

Casa nº58

**Rua João Carlos Gomes, 58, 3830-199 Ílhavo,
Portugal**



Certified
Retrofit

Passive House Institute

| classic | plus | premium |

Client	Maria Manuel Balseiro Vidal Rua Manuel Trindade Salgueiro, 17 3830-055 ÍLHAVO, Portugal
Architect	Homegrid
Building Services	Climacom
Energy Consultant	Sofia Gomes Soares

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)]	38	≤	-	-
Cooling	Frequency of overheating (> 25 °C)	[%]	4	≤	20	
	Frequency of excessively high humidity	[%]	16	≤	0	
Airtightness	Pressurization test result (n ₅₀)	[1/h]	0.6	≤	0.0	
Renewable primary energy (PER)	PER-demand	[kWh/(m²a)]	72	≤	98	98
	Generation (reference to ground area)	[kWh/(m²a)]	12	≥	-	-
Component quality						
	Building envelope to ambient air (U-value)	[W/(m²K)]	0.28	≤	0.50	
	Building envelope to ground (heat loss/load)	[kWh/(m²a)]	4.19	≤	10.80	
	Windows/Exterior doors (U _{w,installed})	[W/(m²K)]	1.29	≤	1.29	
	Glazing (g-value)	[-]	0.48	≥	-	
	Glazing/shading (max. solar load)	[kWh/(m²a)]	65	≤	-	
	Ventilation (effect. heat recovery efficiency)	[%]	77	≥	-	

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

Ílhavo

31 July 2026

Certifier: João Marcelino, João Marcelino - Homegrid, Lda