

CASA FJ

Penafiel

Construção nova new building

Concluído finished



É a primeira!

Livre de pontes térmicas, duas volumetrias distintas, entre frio e quente, e uma cumieira a resolver Norte Sul quebrando a componente formal. Dois pisos, compacta, destinando o piso de cima aos quartos e voltada ao sol. Isolamento por fora, estanquidade bem feita e uma escadaria suspensa como um bloco de madeira. O conforto? É de quem a habita!

It's the first!

Free of thermal bridges, two distinct volumes, between cold and hot, and a ridge to resolve North South, breaking the formal component. Two floors, compact, with the upper floor allocated to bedrooms and facing the sun. Insulation on the outside, well-made waterproofing and a staircase suspended like a block of wood. The comfort? It belongs to whoever lives there!



Certificate homeGrid Certified Passive House Classic

homeGrid

Authorised by: **Passive House Institute**
Dr. Wolfgang Feist
64283 Darmstadt
Germany

Habitação Unifamiliar - House Queen
Rua da Portela do Monte, nº 341, 4560-765 Santa Marta, Portugal



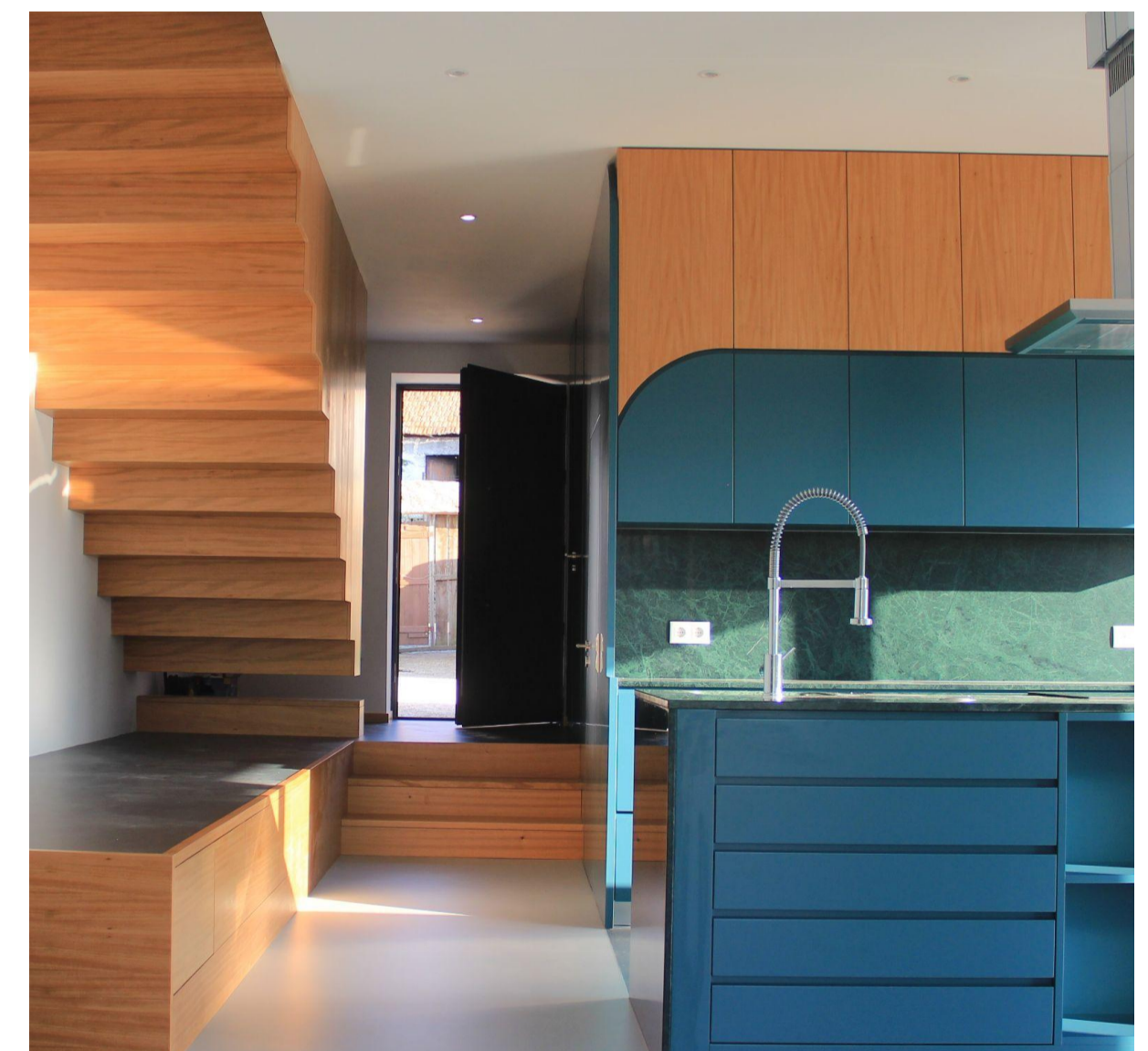
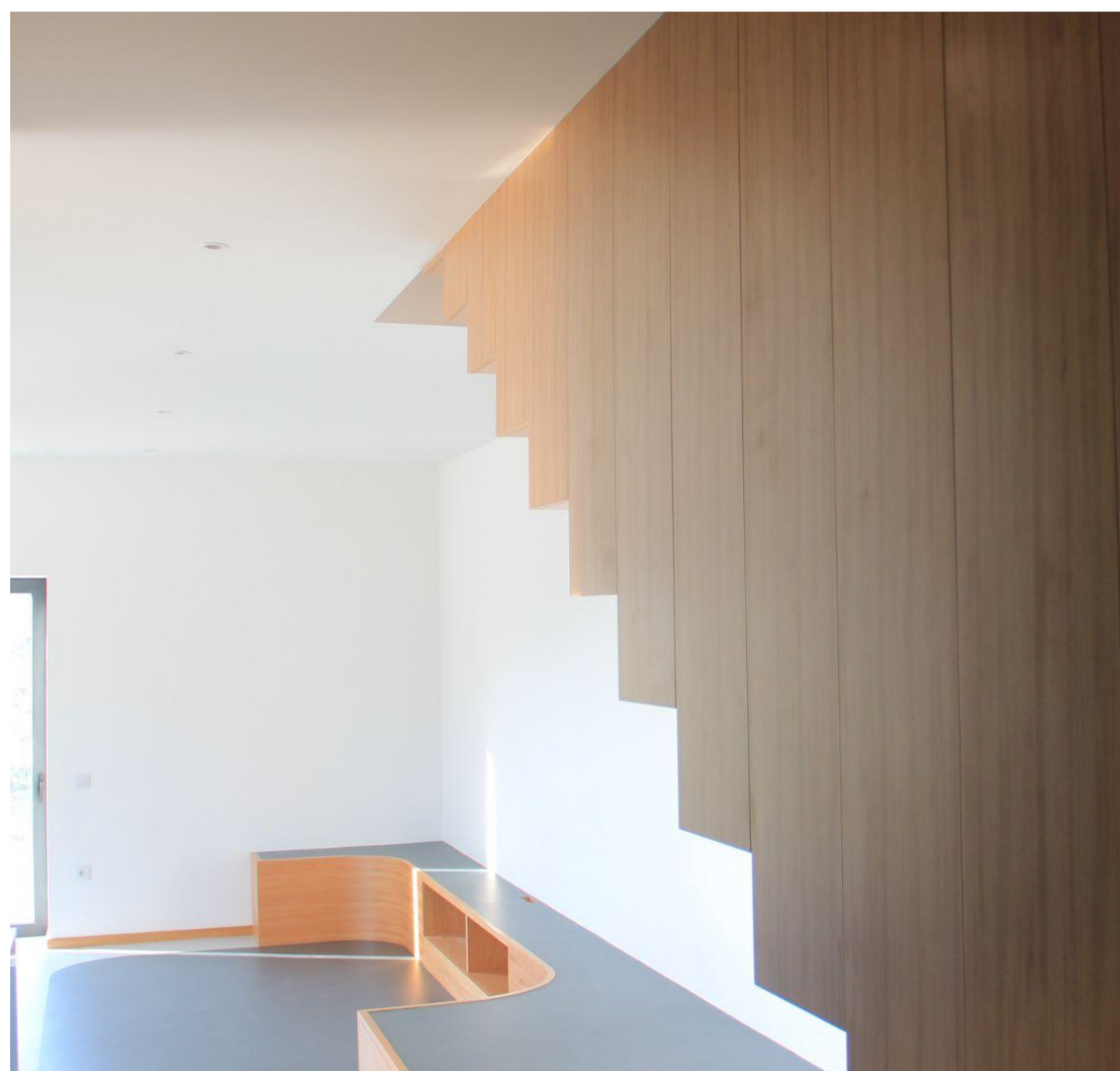
Client	Fernanda Margarida Pinto dos Reis Rua do Monte da Portela 4560-391 Paço de Sousa, Portugal
Architect	Galeria Gabinete Rua Alfredo Pereira, 3 4560-502 Penafiel, Portugal
Building Services	Climacom Rua da Junqueira, Armazém nº4 3800-034 Cacia-Aveiro, Portugal
Energy Consultant	Esperança Isabel Vieira Lopes de Azevedo Rua do Louredo, 471 4560-890 Penafiel, Portugal

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)]	13	≤ 15	-
	Heating load [W/m²]	11	≤ -	10
Cooling	Cooling + dehumidification demand [kWh/(m²a)]	-	≤ -	-
	Cooling load [W/m²]	-	≤ -	-
	Frequency of overheating (> 25 °C) [%]	0	≤ 10	-
	Frequency of excessively high humidity [%]	11	≤ 20	-
Airtightness				
	Pressurization test result (n ₅₀) [1/h]	0,4	≤ 0,6	-
Non-renewable primary energy (PE)				
	PE demand [kWh/(m²a)]	105	≤ -	-
Renewable primary energy (PER)				
	PER-demand [kWh/(m²a)]	57	≤ 60	60
	Generation (reference to ground area) [kWh/(m²a)]	7	≥ -	-

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



Arquitetura: Galeria Gabinete by Helder de Carvalho
Passive House Designer: Galeria Gabinete by Esperança Lopes
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GALERIA GABINETE

Organização:

