Cestaria: a 1ª Passive House no Turismo

Costa Nova, Ílhavo
Reconstrução
Concluída em 2015

A primeira Passive House certificada no sector do Turismo em Portugal foi concluída em 2015. Esta Passive House é o resultado de um projecto de reconstrução localizado numa zona de protecção patrimonial. O edifício está organizado em dois apartamentos, um em cada piso. A Cestaria obteve também a certificação no âmbito do sistema LiderA de avaliação da construção sustentável.

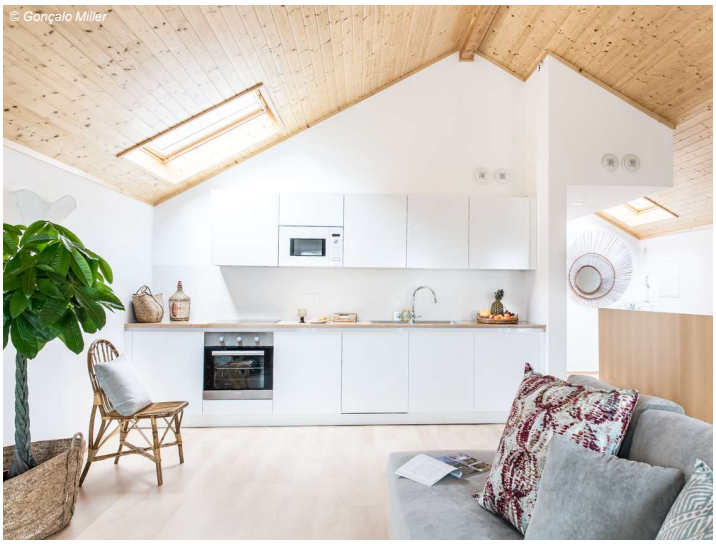
The first certified Passive House in the touristic sector in Portugal was completed in 2012 and it is the result of a reconstruction project in a touristic and historic place. Cestaria obtained the certification within the LiderA system for assessment of sustainable construction.

Specific building characteristics with reference to the treated floor area

				Criteria	Alternative criteria	Fullfilled?[2]
	Treated floor area m²	178,4				
Space heating	Heating demand kWh/(m²a)	13	≤	15	-	yes
	Heating load W/m²	10	≤	-	10	
Space cooling	Cooling & dehum. demand kWh/(m²a)	-	≤	-	-	-
	Cooling load W/m²	-	≤	-	-	
	Frequency of overheating (> 25 °C) %	3	≤	10		yes
	Frequency excessively high humidity (> 12 g/kg) %	11	≤	20		yes
Airtightness	Pressurization test result n_{50} 1/h	0,4	≤	0,6		yes
Non-renewable Primary Energy (PE)	PE demand kWh/(m²a)	55	≤	-		-
Primary Energy Renewable (PER)	PER demand kWh/(m²a)	31	≤	60	60	yes
	Generation of renewable energy kWh/(m²a)	24	≥	-	-	

[2] Empty field: Data missing; '-': No requirement

Resultados do balanço energético através do PHPP *(© Homegrid)*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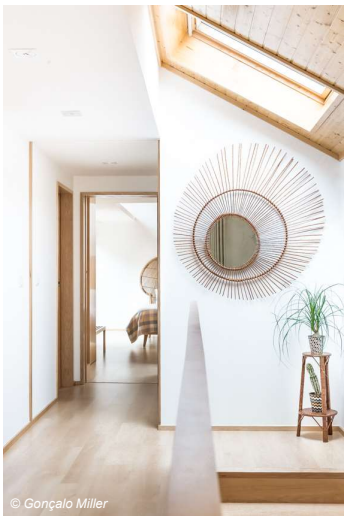
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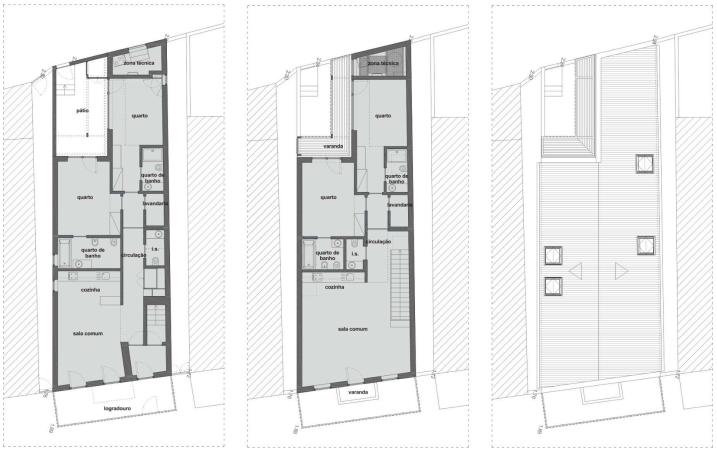
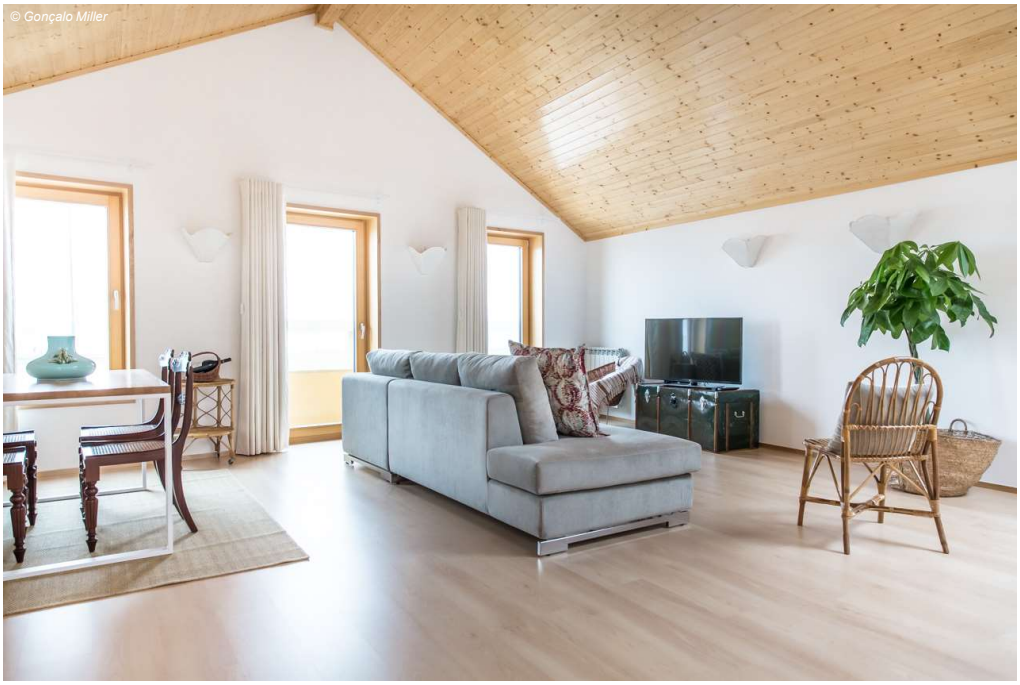


Plantas: rés-do-chão, 1º andar e cobertura (© Homegrid)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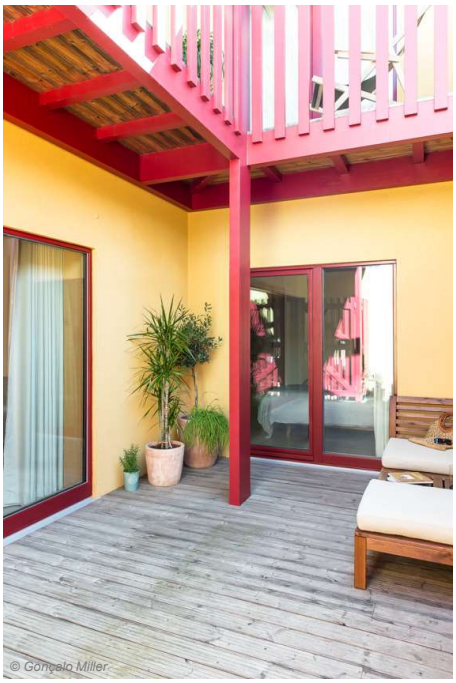
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Arquitectura: Homegrid (www.homegrid.pt)
Passive House Designer: Homegrid
Email: geral@homegrid.pt
Telefone: 234 096 309

Organização:

Certificate

Certified Passive House

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

Cestaria
Arrais de Ançã - Costa Nova do Prado, 3830-450 Ílhavo, Portugal

Certified Passive House
Passive House Institute
| classic | plus | premium |

Client	AIT Invest, S.A. Rua do Breiner, nº353 4050-127 Porto, Portugal
Architect	Homegrid Avª 25 de Abril, 33, 3º Andar Esq Frente 3830-044 Ílhavo, Portugal
Building Services	Climacom, Lda Rua da Junqueira, 37 3800-034 Cacia- Aveiro, Portugal
Energy Consultant	Passivhaus Institut Rheinstr. 44/46 64283 Darmstadt, 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/(m²a)]	13	≤	15	-
Heating load	[W/m²]	10	≤	-	10
Cooling					
Frequency of overheating (> 25 °C)	[%]	3	≤	10	
Frequency of excessively high humidity	[%]	11	≤	20	
Airtightness					
Pressurization test result (n_{50})	[1/h]	0,4	≤	0,6	
Renewable primary energy (PER)					
PER-demand	[kWh/(m²a)]	31	≤	60	60
Generation (reference to ground area)	[kWh/(m²a)]	24	≥	-	-

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

Susanne Theumer

Darmstadt, 03.March 2016
Certifier: Susanne Theumer, Passivhaus Institut