Casa das Júlias

São Brás de Alportel
Reconstrução
Obra concluída

O edifício insere-se no Centro Histórico de São Brás de Alportel, num lote de geometria irregular com orientação norte-sul. Cumprindo com a mancha de implantação e cércea permitidas, a casa desenvolve-se apenas num piso, em que as áreas de estadia (sala, cozinha, quartos) estão orientadas a Sul e as áreas de serviço (estacionamento, entrada, instalações sanitárias e escritórios) orientadas a Norte. Em termos construtivos, o edifício tem estrutura de betão armado, paredes em bloco térmico com sistema ETICS, garantindo a continuidade do isolamento térmico pelo exterior, vãos em PVC com vidros duplos e proteção solar com estores exteriores. Quanto a sistemas técnicos, tem ventilação mecânica com recuperação de calor, bomba de calor para AQS e climatização através de piso radiante hidráulico. A obra concluiu-se em 2026 e está certificada como **Passive House Plus**.

*The building is located in the Historic Center of São Brás de Alportel, on an irregularly shaped, north-south oriented plot. Adhering to the permitted building footprint and height limits, the house is laid out on a single level, with living areas (living room, kitchen, bedrooms) facing south and service areas (parking, entrance, bathrooms, and offices) facing north. Structurally, the building features a reinforced concrete frame and thermal block walls with ETICS - ensuring continuous external thermal insulation - along with PVC double-glazed windows and external blinds for solar protection. Technical systems include mechanical ventilation with heat recovery, a heat pump for domestic hot water, and hydraulic underfloor heating. Construction was completed in 2026, and the building is certified as **Passive House Plus**.*

Specific building characteristics with reference to the treated floor area

					Criteria	Alternative criteria	Fullfilled?[2]
	Treated floor area	m²	165.2				
Space heating	Heating demand	kWh/(m²a)	10	≤	15	-	yes
	Heating load	W/m²	15	≤	-	10	
Space cooling	Cooling & dehum. demand	kWh/(m²a)	-	≤	-	-	-
	Cooling load	W/m²	-	≤	-	-	
	Frequency of overheating (> 25 °C)	%	6	≤	10		yes
	Frequency of excessively high humidity (> 12 g/kg)	%	12	≤	20		yes
Airtightness	Pressurization test result n_{50}	1/h	0.2	≤	0.6		yes
Non-renewable Primary Energy (PE)	PE demand	kWh/(m²a)	51	≤	-		-
Primary Energy Renewable (PER)	PER demand	kWh/(m²a)	24	≤	45	30	yes
	Generation of renewable energy (in relation to projected building footprint area)	kWh/(m²a)	48	≥	60	48	

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

I confirm that the values given herein have been determined following the PHPP methodology and based on the characteristic values of the building. The PHPP calculations are attached to this verification.

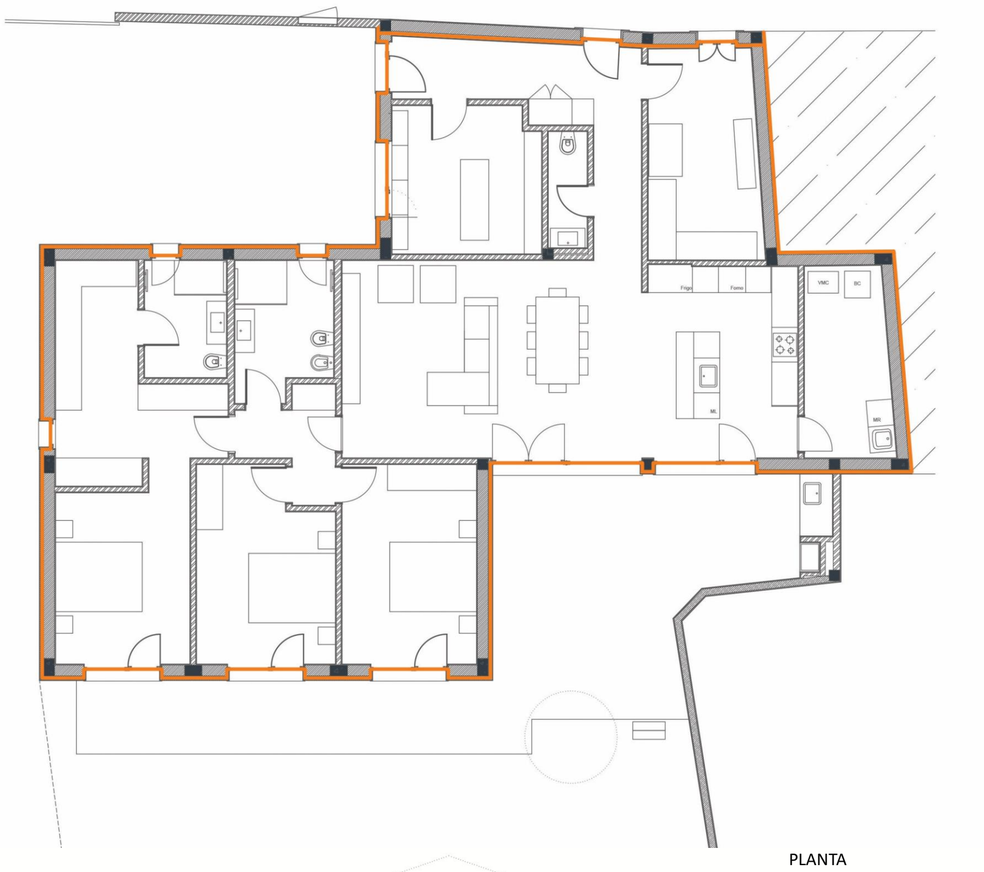
Passive House Plus? yes

Task:	First name:	Surname:	Signature:
2-Certifier	Dr Jesus	Menendez Amigo	

Certificate ID	Issued on:	City:
55331_ZEL_PH_20260930_JM_U020	30.09.2026	Manchester



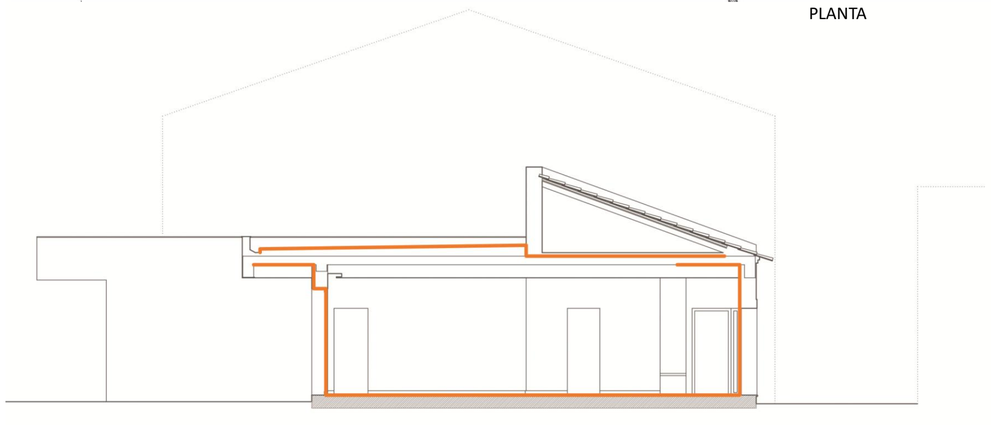
VISTA AÉREA



PLANTA



ALÇADO SUL



CORTE TRANSVERSAL



ALÇADO POENTE



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Rita Nobre Pereira
ARQUITETA · PASSIVE HOUSE DESIGNER

Organização: