

Passive House em Sta M^a da Feira

Mozelos, Santa Maria da Feira

Construção nova – new construction

Em certificação



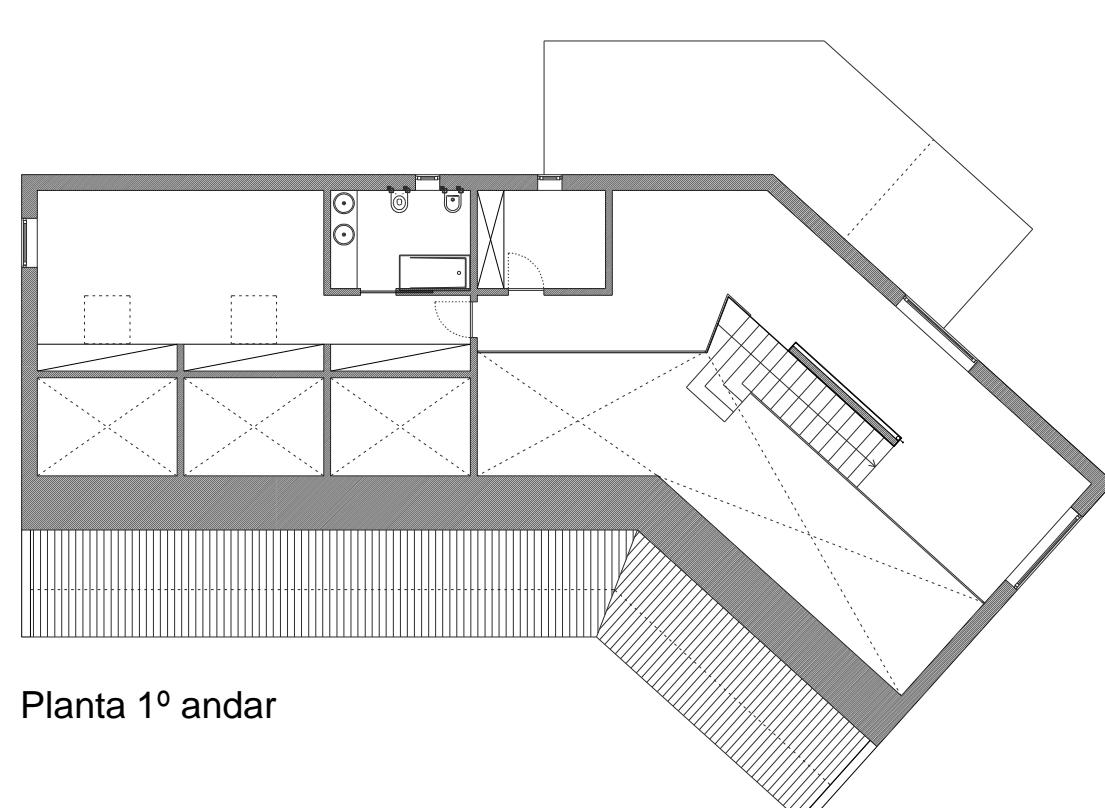
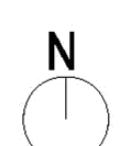
Este projecto refere-se à construção duma habitação unifamiliar que terá um desempenho Passive House. O edifício localizado em Santa Maria da Feira está em construção estando prevista a sua conclusão até ao final de 2022. No projecto foram integradas soluções da arquitectura solar passiva, mostrando o seu potencial na integração com o padrão Passive House.

As necessidades de energia previstas são tão reduzidas que este projecto após a conclusão será um dos edifícios de melhor desempenho a nível nacional e internacional.

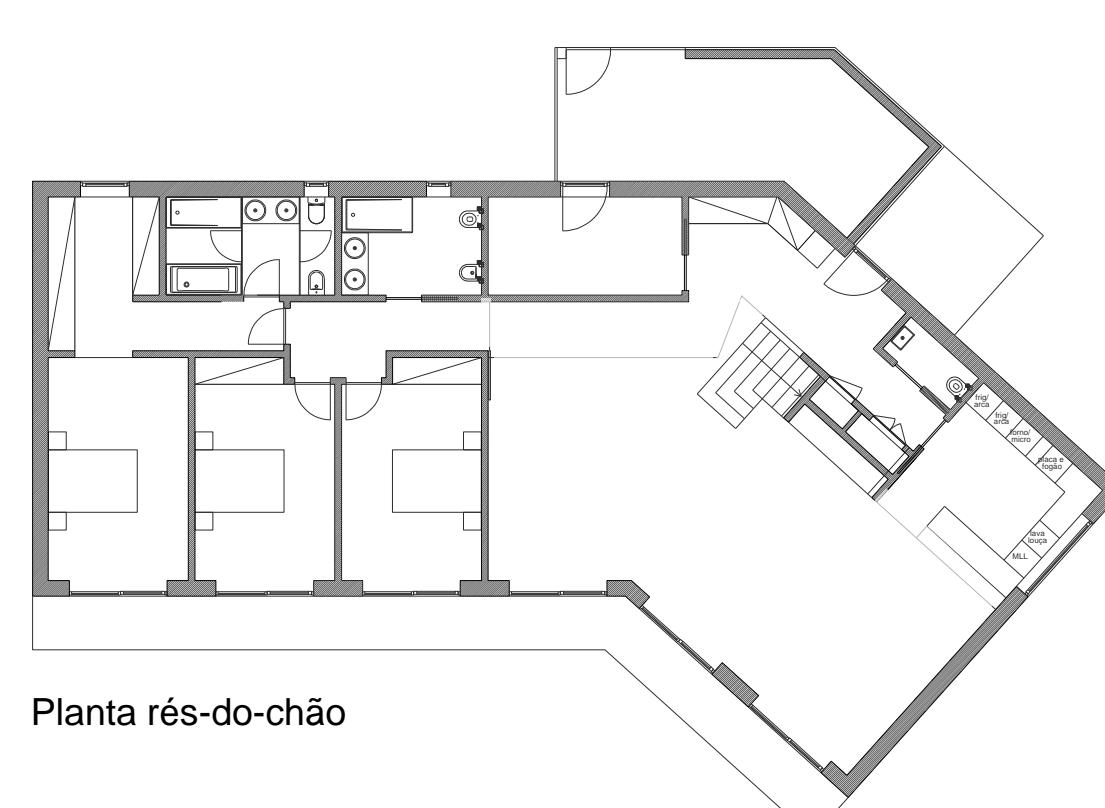
This project refers to the construction of a single-family dwelling that will have a Passive House performance. The building located in Santa Maria da Feira is under construction and is expected to be completed by the end of 2022. Solar passive architecture solutions were integrated in the project, showing their potential in integration with Passive House performance. The energy needs are so low that this project will be one of the best performing buildings nationally and internationally.

Specific building characteristics with reference to the treated floor area					
Space heating	Treated floor area m ²	273,4	Criteria	Alternative criteria	Fulfilled?
	Heating demand kWh/(m ² a)	4	≤	-	yes
	Heating load W/m ²	8	≤	10	
Space cooling	Cooling & dehum. demand kWh/(m ² a)	1	≤	15	yes
	Cooling load W/m ²	5	≤	-	
	Frequency of overheating (> 25 °C) %	-	≤	-	
	Frequency of excessively high humidity (> 12 g/kg) %	8	≤	10	
Airtightness	Pressurization test result n ₅₀ 1/h	0,6	≤	0,6	yes
Non-renewable Primary Energy (PE)	PE demand kWh/(m ² a)	54	≤	120	yes
Primary Energy Renewable (PER)	PER demand kWh/(m ² a)	25	≤	-	yes
	Generation of renewable energy (in relation to projected building footprint area)	0	≥	-	-

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



Planta 1º andar



Planta rés-do-chão

