

Sede da Danosa Rua do Norte, 3100-342 Pombal, Portugal



Client	DANOSA EUROFOAM LDA Rua do Norte 3100-342 Pombal, Portugal
Architect	Vinhas Arquitectos Rua Professor Gonçalves Figueira 3100-485 Pombal, Portugal
Building Services	Climacom Rua da Junqueira, Armazém nº4 3800-034 Cacia, Portugal
Energy Consultant	João Gustavo Caetano Abrantes da Silva Avenida da Fonte Nova, S/N 3050-379 Mealhada, 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 Plus' standard:

Building quality	This building	Criteria	Alternative criteria
Heating			
Heating demand [kWh/(m ² a)]	15 ≤	15	-
Heating load [W/m ²]	13 ≤	-	10
Cooling			
Cooling + dehumidification demand [kWh/(m ² a)]	4 ≤	15	15
Cooling load [W/m ²]	10 ≤	-	11
Frequency of overheating (> 25 °C) [%]	- ≤	-	
Frequency of excessively high humidity [%]	0 ≤	10	
Airtightness			
Pressurization test result (n ₅₀) [1/h]	0.6 ≤	0.6	
Non-renewable primary energy (PE)			
PE demand [kWh/(m ² a)]	103 ≤	-	
Renewable primary energy (PER)			
PER-demand [kWh/(m ² a)]	55 ≤	45	55
Generation (reference to ground area) [kWh/(m ² a)]	1852 ≥	60	76

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

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13/03/2025

Certifier: João Marcelino, Homegrid, Lda