Casa 58

Ílhavo

Reabilitação – Rehabilitation

Concluído – Completed

Este projeto refere-se à reabilitação de uma habitação unifamiliar geminada, com o objetivo de ter a certificação EnerPHit. Localizada no centro de Ílhavo, com área de aproximadamente 48 m², a Casa 58 foi reorganizada pelo seu interior, mantendo a estrutura exterior, e foi reabilitada com os cuidados necessários obter reduzidas necessidades de energia, sobretudo através da continuidade de isolamento, a aplicação correta dos novos materiais e garantia da estanquidade ao ar, resultando num resultado excelente para uma reabilitação.

This project involves the renovation of a semi-detached single-family home, with the goal of achieving Passive House certification. Located in Ílhavo and measuring approximately 48 m², Casa 58 underwent an interior redesign while retaining its exterior structure. It was renovated with the necessary care to achieve low energy requirements, primarily through continuous insulation, the proper application of new materials, and ensuring airtightness, resulting in an excellent outcome for a renovation project.



EnerPHit (retrofit): Component characteristics

Building envelope to exterior air[1] (U-value)	W/(m²K)	**0,28**	≤	0,5		**Yes**
Building envelope towards ground (heat loss/load)	kWh/(m²a)	**4,2**	≤	10,8		**Yes**
Wall w/int. insulation in contact w/exterior air (U-value)	W/(m²K)	**-**	≤	0,75		**-**
Flat roof (SRI)	-	**-**	≥	-		**-**
Inclined and vertical external surface (SRI)	-	**50**	≥	-		**-**
Windows/Entrance doors ($U_{W/D,installed}$)	W/(m²K)	**1,29**	≤	1,29		**Yes**
Windows ($U_{W,installed}$)	W/(m²K)	**-**	≤	1,34		**-**
Windows ($U_{W,installed}$)	W/(m²K)	**-**	≤	1,44		**-**
Glazing (g-value)	-	**0,48**	≥	-		**-**
Glazing/sun protection (max. solar load)	kWh/(m²a)	**65**	≤	-		**-**
Ventilation (effective heat recovery efficiency)	%	**77**	≥	-		**-**
Ventilation (humidity recovery efficiency)	%	**0**	≥	-		**-**

[1] Without windows, doors and external walls with interior insulation

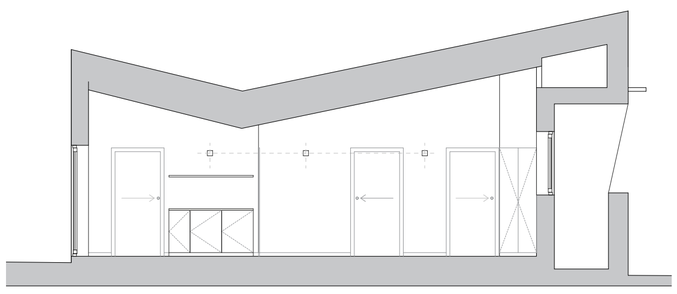
[2] Empty field: data missing; '-': No requirement

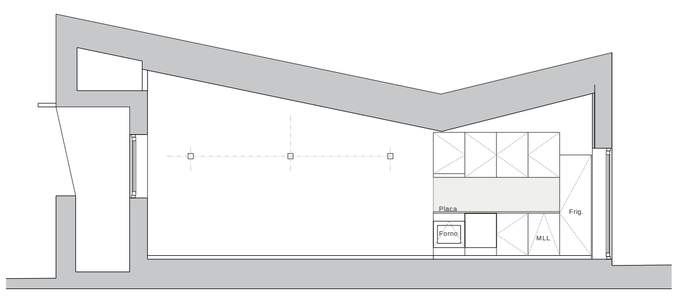
I confirm that the values given here have been determined following the PHPP methodology and based on the characteristic values of the building. The PHPP calculations are attached to this verification.

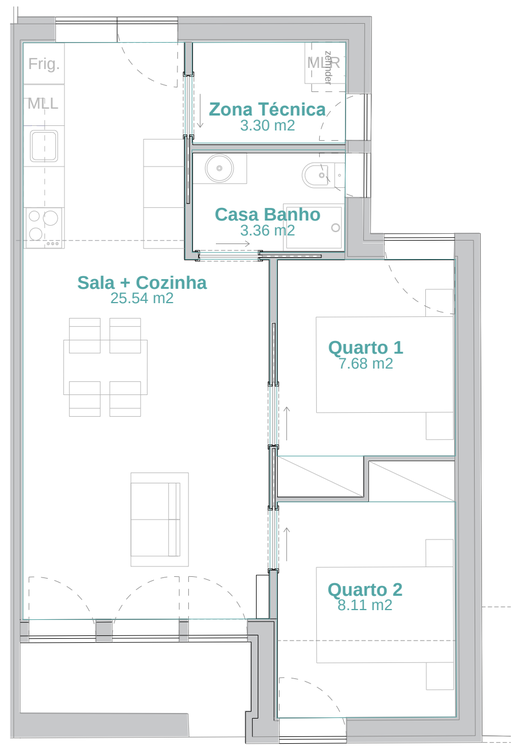
EnerPHit (Component method) Classic? **Yes**















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