

PassivPalau: from the final design to the first PHPP results

Before a single cubic metre of earth was moved, the PassivPalau project settled its final design and passed through PHPP energy modelling, the tool that anticipates how the finished house will perform.

In building a home, fitting the design to the tastes and needs of the people who will live in it is not a secondary detail. The house will hold much of its owners' daily life for decades, and every design decision leaves a lasting mark. The PassivPalau project began with this premise and gradually took shape until its final design was set.

From discarding options to the final design

The final design consolidated step by step. After discarding several options, the home gained definition until it reached its definitive form. This refinement, far from being a formality, allows the built solution to respond precisely to the brief agreed with the client.

3D visualisation as a safeguard

As a service geared towards final satisfaction, a 3D design of the result is always developed, covering both the exterior and the interior. The three-dimensional representation makes it possible to refine the project even further: the client gains a clear picture of how each detail will look and can quickly weigh how alternative options would appear before making a decision. This visual anticipation prevents surprises and aligns expectations with the real outcome.

PHPP modelling, before setting foot on site

Once the design was closed, and before work began on the plot, the PHPP calculations were carried out. This verification tool provides a theoretical estimate of the building's efficiency based on its construction characteristics, and it is the benchmark used by any project aligned with the Passivhaus standard. The results anticipated a home with exceptional insulation.

At PAPIK Group we address every aspect of building a home with the same level of rigour, from the bespoke design and comfort through to high energy efficiency. The logic of the Eskimohaus system is precisely that these dimensions do not compete with one another; they reinforce each other when they are planned from the outset. PassivPalau illustrates the point: careful design definition and prior energy verification are two sides of the same process.

An efficient house is not improvised on site: it is designed and verified before the first shovel breaks ground.