

Eskimohaus homes: saving, wellbeing and sustainability in a single dwelling

PAPIK Group introduces Eskimohaus homes, a housing model that sharply reduces energy use and raises indoor comfort without compromising on health or respect for the territory.

In a context where sustainability and energy efficiency weigh more than ever on the decision to build, PAPIK Group introduces Eskimohaus homes as a concrete answer for anyone seeking a more efficient home, free of energy mortgage, healthy and respectful of the environment. This is not a commercial label but a way of conceiving housing around three inseparable goals: saving, wellbeing and sustainability.

At PAPIK Group we are committed to creating homes that respect the environment without giving up comfort. With Eskimohaus homes we offer a solution that not only responds to today's climate challenges but also represents an intelligent long-term investment for families and for the territory. Papik Fisas, manager of PAPIK Group.

Energy efficiency and financial saving

One of the most decisive features of Eskimohaus homes is their capacity to reduce energy consumption dramatically. Each dwelling is designed to run with minimal heating or cooling needs, thanks to the combination of design, a highly insulating thermal envelope, high-performance windows and mechanical ventilation with heat recovery.

According to internal data, these homes can consume up to 90% less energy than a conventional dwelling, with annual figures below 15 kWh/m², against a national average that sits around 94 kWh/m² per year. This reduction in day-to-day consumption is also a reduction in the so-called energy mortgage, the spending required to guarantee comfort inside the home.

When the project incorporates photovoltaic systems that, combined with batteries, make energy self-sufficiency possible, the saving multiplies. It is this combination that turns an Eskimohaus home into a profitable and secure investment across its service life.

Wellbeing and indoor comfort

The benefits do not stop at the bill. Thanks to the airtightness of the envelope and controlled ventilation, a stable temperature is achieved all year round, with no draughts or damp. The filtration system delivers indoor air free of pollen, pollution and insects, often cleaner than the air outside.

Added to this thermal comfort are natural, toxin-free materials that provide a healthy, safe environment for the whole family. The lack of comfort and wellbeing at home is a source of stress that ends up affecting every area of life and health, and it is precisely on this ground that well-resolved construction makes the difference.

A measurable environmental impact

Alongside the financial and health benefits, energy efficiency means a direct reduction in the emissions associated with generating energy. It is worth recalling that the residential sector consumes around 20% of our country's total energy, so every dwelling that cuts its consumption has a meaningful aggregate effect.

Eskimohaus homes are built with natural, sustainable materials, with structural timber as the protagonist and a low environmental impact. This timber comes from responsibly managed forests: the PEFC and FSC seals guarantee that for every tree felled a new one is planted, maintaining or growing the forest mass. Timber also acts as a CO₂ sink. Each Eskimohaus home absorbs and saves between 40 and 60 tonnes of CO₂ compared with a traditional house, thereby contributing actively to the reduction of emissions.

Build quality: where the difference is made

Moving from theory to practice can seem straightforward, but ensuring that what is drawn on paper becomes reality while meeting quality targets is only possible with qualified labour, experience and the awareness that it is in the details that the result is decided. An excellent project with poor execution ends in a poor outcome, which is why training, experience and dedication are essential conditions for building homes to the standards of Eskimohaus.

This has been the company's goal since it began building sustainable homes in Barcelona. More than twenty years of learning are a guarantee of experience that can be verified in the results of its projects, always with the latest advances in the sector incorporated. That same standard underpins our construction service and, when the existing building must be addressed, our energy retrofit work.

What sense does it make to consume energy we could save by building with high energy efficiency? We are throwing away money and energy, and along the way we pollute our surroundings and make them less habitable. With Eskimohaus homes that is over: the most efficient and least polluting watt is the one that is never consumed. Nico Gibert, head of communications at PAPIK Group.

Natural materials and Passivhaus principles

Eskimohaus homes combine building with natural, sustainable and renewable materials and the constructive principles of Passivhaus. This combination translates into a set of verifiable features:

- **CO₂ absorption:** the building process saves and absorbs CO₂. In a home of around 120 m², 26 tonnes are absorbed and 15 are saved, that is, 41 tonnes fewer in the atmosphere.
- **Energy efficiency:** cutting consumption by up to 90% means less need to generate energy and therefore less pollution.
- **Sustainable materials:** FSC-certified timber, guaranteeing that for every tree felled a new one is planted.
- **Excellent thermal insulation:** the home keeps the indoor temperature constant without consuming large amounts of energy.
- **Airtightness:** an airtight build prevents energy losses and guarantees optimal indoor air quality.
- **High-performance glazing:** designed to capture natural light without compromising insulation.
- **Heat-recovery ventilation:** fresh air enters the home without losing the heat accumulated inside.

With long experience in sustainable construction, the company has implemented these solutions across more than twenty projects throughout Catalonia, with a commitment to quality and innovation that has established it as a reference in the market for ecological building.

Eskimohaus and Passivhaus

Eskimohaus homes are compatible with Passivhaus certification. Whether or not they are certified, their results tend to reach the values the standard demands, or values very close to them. That said, to obtain certification the process must begin with the architectural design and the corresponding PHPP studies: deciding to certify a house once it is finished requires recalculation and new site inspections, a more complex and often far more costly process than planning for it from the outset.

PAPIK Group has backed this paradigm from its beginnings, and has now given it a name: Eskimohaus homes. The term evokes Inuit culture for its ability to secure warmth in extreme climates. The company has been a pioneer in building certified Passivhaus homes and has become a reference, with close to fifty certifiable homes to this demanding standard built across Catalonia. This experience has made it possible to create a concept that stands as a real, proven alternative to the rise of prefabricated houses marketed as sustainable that often deliver little more efficiency than the mandatory Technical Building Code already requires.

With operational headquarters in Catalonia, PAPIK Group represents an example of constructive innovation rooted in the territory and oriented to the future. Eskimohaus homes not only respond to today's environmental challenges but also anticipate the housing standards that will define the coming decades.

The most efficient and least polluting watt is the one that is never consumed. That, in a single sentence, is the logic governing every design decision in an Eskimohaus home.