

What is Passivhaus?

Passivhaus is accepted as the world's best building comfort and quality standard, making it the international gold standard for building. It guarantees amazing levels of comfort and radical reductions in energy use

A Passivhaus home can consume up to 90% less energy than houses built to current UK building regulations. There's a growing body of scientific evidence and studies to prove that Passivhaus buildings are among the world's healthiest to live in.

At Kiss Custom we've worked tirelessly to harness everything that's amazing about Passivhaus and push it even further by marrying it with great design and natural renewable materials. The result is a home for you to enjoy, with very low running costs and the satisfaction of knowing that it's all down to a brilliantly simple, well put together building that is doing the hard work.

The price of a Kiss Custom home includes independent Passivhaus certification.



Savings and performance

- All Passivhaus buildings have their performance independently certified / measured. You either meet the stringent standard or you do not
- Passivhaus buildings provide significant financial savings for occupants due to their very low heat and energy demand
- The low heat and energy demand also means significant energy savings and environmental benefits for the planet



Health and comfort

Passivhaus buildings are among the healthiest in the world to live in, they provide:

- Constant clean air at an ambient temperature whatever the weather
- Zero mould, damp, draughts, condensation and cold spots
- Impressive acoustic performance
- Robust construction
- Carefully considered glazing which optimises daylight and minimises over heating

Together these make an exceptional living environment. One which is calm and nurturing and supports occupant health.



How it differs from regular construction

On the surface Passivhaus buildings can look similar to regular buildings but there are key features that make them very different, for example:

- Significantly more insulation is used to create a high-quality thermal envelope
- The building envelope is carefully detailed to avoid thermal bridging and air-leakage
- New categories of building products have evolved to enable the Passivhaus builder to "build tight"
- This means Passivhaus buildings don't suffer from drafts and cold spots, plus they keep heat in and cold out
- Passivhaus buildings use state-of-the-art windows typically triple-glazed and gas-filled
- A heat recovery ventilation system removes heat from exhaust air, and uses it to heat incoming air to deliver clean filtered air at an ambient indoor temperature — meaning no stuffy and stale air
- The meticulous detailing, high-quality windows, doors and insulation result in great acoustic qualities with brilliant acoustic separation within the building and between the building and outside