

Passive House

Passive Budget Build £32/ft2

Passive Houses are highly insulated, comfortable, cold bridge free structures that require little heating, they usually have triple glazed windows, heat recovery ventilation (HRV) and high air-tightness levels. It doesn't cost extra to build a Passive House using our construction methods, as money saved on a heating system can often pay for better windows, HRV and extra insulation.

- [Passivslab](#) is quicker, cheaper and simpler than traditional strip foundations, it eliminates cold bridging and delivers an excellent 0.105W/m.K U-value.
- [Warm Stud](#) 0.08W/m.K roof is quicker, simpler and cheaper than a regular 0.18W/m.K U-value roof and eliminates air-tightness tapes and membranes.
- [FiWi HRV](#) is quicker, cheaper and more efficient than regular HRV and simplifies ventilation by removing intricate ductwork runs that require annual cleaning.
- [Solar Slab](#) delivers 100 days free heating to a Passive House by inter-seasonally storing the summer's sunshine.

Our simple, effective, well thought through construction methods give builders throughout the UK a competitive edge in the market place because it shows they're interested in building more efficient houses. This website generates a lot of enquiries from Architects and Clients wanting to build energy efficient houses, so builders who align themselves with Viking House and use our efficient/effective construction methods win projects more easily. With over 100 super efficient construction projects to our name our experience is unrivalled within the Construction industry.

We're in regular contact with numerous Certified Passive House Designers throughout the country, so we can put clients looking for an Architect in direct contact with local Certified Passive House Designers. Half the running costs of a building can be saved at design stage with a Certified Passive House Designer.



"Spend £1 on insulation to save a Kilowatt or spend £10 on solar panels to generate a Kilowatt"

We take the guesswork out of specifying components by verifying your design through the Passive House Planning Package (PHPP), which allows us to analyze various combinations of wall build up, window frame U-value, cold bridge factors and heating systems to maximize the bang for your buck. Viking House provides a full contract for turnkey delivery of low energy buildings or the Passive House Self builder kit, with finishes by your own local tradesmen. This is proving to be an extremely cost effective solution for today's market.

We can analyze your project from the macro issues such as siting and solar orientation of your building to the micro detailing to condensation risk, and heat loss analysis of fabric build-up. We are currently engaged with designers and builders including Morgan Sindall in the UK, the Quinn Group in the North and Airpacks Ltd to upgrade their standard details to provide cold bridge free, condensation free construction details using standard trades and materials.

[UK PassivHaus Conference Presentation](#)
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