

Inbuilt PASSIVHAUS

Design, Consultancy and Certification



PASSIVHAUS: THE PRACTICAL, PRAGMATIC ROUTE TO ULTRA-LOW CARBON BUILDINGS.

If we're going to tackle climate change and reduce our energy bills we need more ultra low energy buildings.

Passivhaus techniques and the Passivhaus Planning Package (PHPP) software are open to all to use across the world. With no expensive licensing fees, it's an "open" shared methodology with a wealth of free-access information online. This has helped Passivhaus to become one of the world's leading energy efficiency standards for buildings.

However, getting to grips with the details of Passivhaus isn't easy. If you're new to Passivhaus it's likely you'll need help with your project.

INBUILT CAN CERTIFY YOUR PASSIVHAUS BUILDINGS.

Inbuilt is one of the few organisations in the UK that can certify "Quality Approved"

Passivhaus buildings, working with the Passivhaus Institut in Darmstadt, Germany.

Certifying your Passivhaus project has both a marketing benefit and gives you the assurance that your proposed design performs as expected – a comfortable, healthy building with low running costs.

Inbuilt's tailored certification services are the key.

We're an independent consultancy with a track record in designing and advising on low energy buildings. Because we've done it ourselves we can help you overcome the challenges you'll face to reach the Passivhaus standard.

With Passivhaus friends across Europe, and with German speakers in our own team, we're up-to-date with the latest Passivhaus cost-saving technologies and approaches.

Combined with our understanding of the UK building industry and experience aligning Passivhaus with the Code for Sustainable Homes, we're the premier consultancy delivering Passivhaus Design, Consultancy and Certification.

PICTURE: F.Freundorfer, www.passivhauskreis.de



1 THE COMPLETE PASSIVHAUS DESIGN SERVICE

As experts in the design of sustainable built environments, Inbuilt's team of consultants and technicians can design and help deliver a Passivhaus home, school or office. They don't need to be new, we can even do refurbishments.

Partnering with architects when necessary, we provide design support throughout the project. Together we can provide the concept design, specification and drawing details which are vital to achieve the Passivhaus standard. These include Passivhaus Planning Package (PHPP) modelling and thermal, airtightness and overheating analysis. Inbuilt can also provide certification from the Passivhaus Institut for those buildings that fully comply with the PHPP criteria.

Walking the talk

The Inbuilt team is currently working on a range of Passivhaus projects from housing to schools and refurbishments.

2 ADVICE, CONSULTANCY AND CERTIFICATION

Trying to design a Passivhaus or need Passivhaus expertise on your team?

Inbuilt can help. Delivery of a Passivhaus relies on expertise from concept development through to construction. Inbuilt's consultants work with architects and contractors to ensure that the Passivhaus standard is met.

Our service can be tailored to your understanding and experience of Passivhaus design. We can:

- **Train your design team and contractors** in Passivhaus design principles and in the use of the PHPP.
- Provide clear and concise **Passivhaus guidance throughout the design process** based on the PHPP modeling of your project.
- **Check architectural details for airtightness**, and provide thermal modeling calculations to **ensure that all details are free from cold bridging**.
- **Provide on-site construction quality checks**, collect and document the evidence required for certification.
- **Provide verification and certification of the completed building**, leading to receipt of a Quality Approved Passivhaus Certificate from the Passivhaus Institut.

3 SPREADING THE WORD.....

The solutions to energy security and climate change are too important not to share. Inbuilt can teach you how to design and build a Passivhaus and show you these important buildings at close quarters.

Passivhaus Design Tour

Inbuilt arranges bespoke study tours to visit Passivhaus buildings across Europe, so you can learn about Passivhaus first hand. Our tours optionally include workshops on Passivhaus design and use of the PHPP, an overnight stay in a Passivhaus, and study trips to Passivhaus new-build and renovated houses, schools, and offices. We even run 'fast track' day trips!

Passivhaus Training

Inbuilt offers tailored training in Passivhaus design and the use of PHPP for developers, architects, contractors and anyone interested in low-energy buildings.

4 TO FIND OUT MORE OR GET A QUOTE FOR OUR SERVICES PLEASE CONTACT:

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And visit our website: www.inbuilt.co.uk

Passivhaus is only one part of a sustainable building. Inbuilt offers holistic sustainable design and consultancy including Code for Sustainable Homes and BREEAM.

