

consultancy service



Helping your project meet low energy building standards



Bill Butcher
Paul Smith

consultancy service

Green Building Store offers a range of consultancy services for building professionals to help projects meet **low energy building** standards such as **Passivhaus**, **EnerPHit** and **AECB Silver**. Our extensive experience means we can give full technical support for your project, with an emphasis on simplicity of design, pragmatic solutions and buildability.

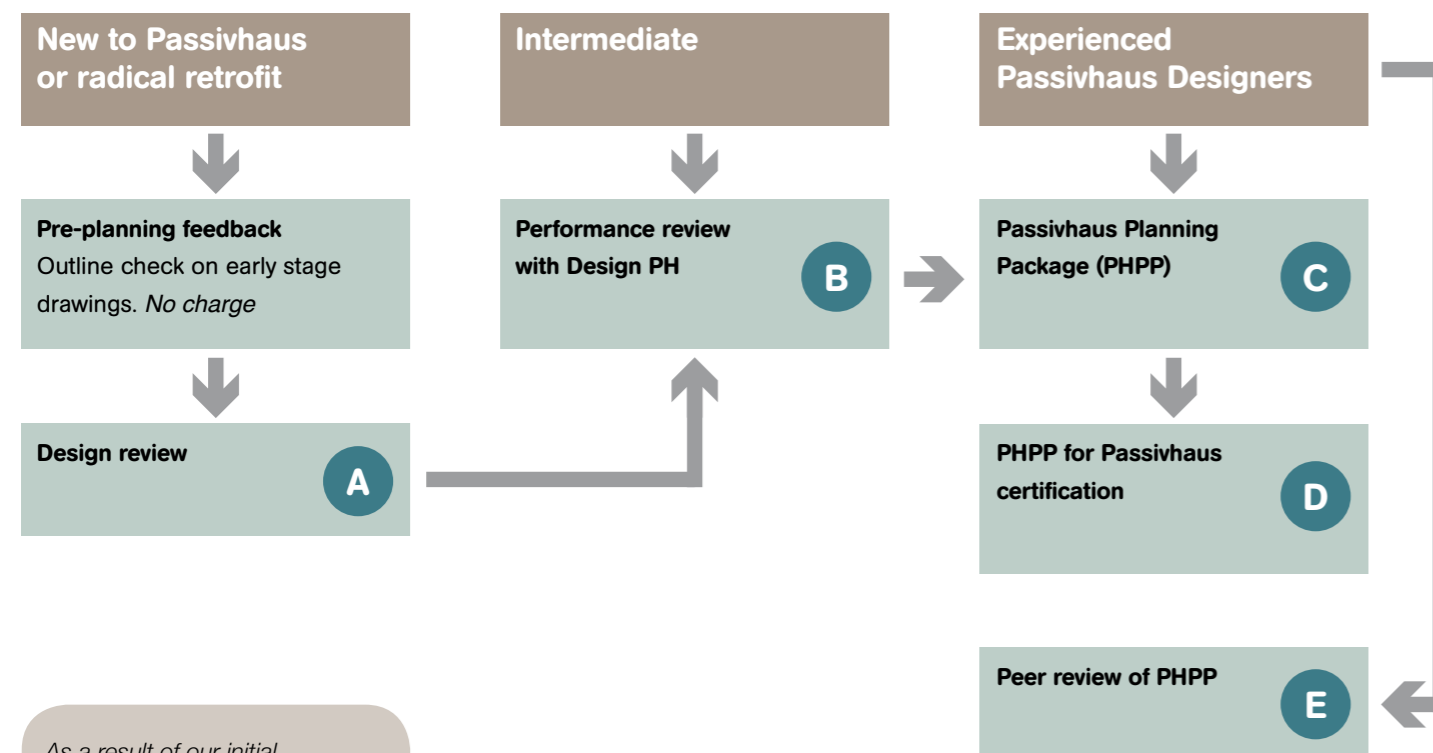


Cre8 Barn EnerPHit

Pre-planning feedback

Outline check on early stage drawings.
No charge

Choose a service suited to your expertise and objectives:



As a result of our initial confidence and the pioneering work of the larger group of **Passivhaus** 'converts', which Green Building Store regularly worked with, we felt assured in appointing Green Building Store as Housing Division's Passivhaus Consultant for the Passivhaus Pilot Project at **Janet's Corner**. We would be happy to use Green Building Store on other similar Passivhaus projects.

John Payne, Senior Architect
Isle of Man Government
Department of Infrastructure:
Public Estates & Housing Division

technical expertise

Our team, led by Director Bill Butcher, has developed expertise in low energy building, from the pioneering **Denby Dale** and **Golcar Passivhaus** projects through to **radical retrofit** projects such as the multi award-winning **Cre8 Barn EnerPHit** project.

Our in-house Passivhaus Consultants have been involved with a wide range of Passivhaus and low energy projects throughout the UK, offering consultancy, training and technical product support.



A

Design review

Review of your early stage drawings/plans looking at:

- Objectives of the new build/retrofit project and priorities
- Overall building design/retrofit plans
- Options for materials, products and services
- Risks around moisture
- Cost and buildability

The design review usually involves a two hour meeting in person or via Skype. We will have studied your project plans, images and key questions in advance. The review would ideally involve both architect/building professional and client.

B

Performance review with Design PH

Design PH (an add-on to the **Passivhaus Planning Package**) enables you to assess the impact of your design choices on energy use. We would provide you with a report on the **expected energy performance** of the building with the option of looking at the effect of different design permutations eg more (or less) insulation, window specification options, different opening sizes and locations. Modelling a project in Design PH can also help evaluate the costs of different approaches to meet Passivhaus and low energy performance levels. Green Building Store's Design PH report enables you to assess:

- What heating would be needed?
- What is the overheating risk?
- What changes are worth considering?
- How does the existing design match Passivhaus requirements or your project's objectives?

C

Passivhaus Planning Package (PHPP)

PHPP is some of the most robust building software available, allowing our experts to help you design buildings offering exceptional levels of comfort and energy savings. Our PHPP service is ideal for architectural practices that are looking to **outsource their PHPP modelling**.

D

PHPP for Passivhaus certification

Passivhaus certification provides quality control at design and build stages. It is rigorous, but assures building performance. We offer a package of support to facilitate building certification to either **Passivhaus** or **EnerPHit** standards, depending on whether your project is new build or retrofit. This can involve just creating the final PHPP model and submission of information to a Passivhaus certifier, or can also including design advice by incorporating other elements of our consultancy offer.

E

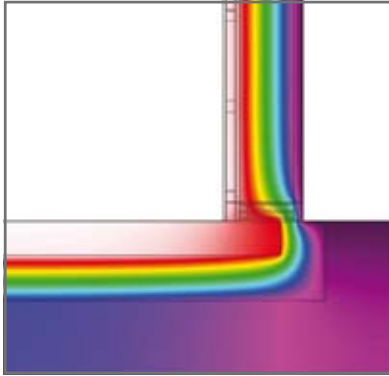
Peer review of PHPP

We also offer a **peer review** service for your PHPP. Our experienced PHPP practitioner Paul Smith provides a second pair of eyes to examine your PHPP spreadsheet and query any unexpected entries.

SAP

We can also provide SAP modelling, in conjunction with PHPP, if required.

Call the
Consultancy team
on
01484 461705
to discuss
your project



consultancy service

We offer the following additional services:

2D thermal bridge analysis

Thermal bridges in highly insulated buildings contribute an additional heat loss from a building's fabric of up to 30% and also create a risk of condensation and mould growth. We can review building details and suggest modifications or alternative options to design out any thermal bridges. We also offer **2D thermal bridge analysis to calculate psi values** where required.

WUFI hygrothermal modelling

Moisture build-up and interstitial condensation are a challenging area for retrofit and even newbuild projects. We can advise on detailing and suitable building materials to minimise risk of moisture build-up, for example internal wall insulation for retrofit projects, using **WUFI hygrothermal modelling** where required.

Training

We also offer bespoke **Passivhaus** training and toolbox talks for building professionals.

MVHR design service

Our MVHR designers can support your project by designing quiet, efficient and robust **heat recovery ventilation** and can also offer toolbox talks for installers.

FREE CPDs for building professionals

Passivhaus principles & specification Tel: 01484 461705



Heath House Mill, Heath House Lane, Golcar, Huddersfield HD7 4JW

telephone 01484 461705 • fax 01484 653765

email info@greenbuildingstore.co.uk • web www.greenbuildingstore.co.uk

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