



## About us

At Eco Design Consultants we are passionate about providing great architecture. We believe that good architecture can create a building that will lift your spirits as well as provide functional spaces. We specialise in low carbon, sustainable new build homes and retrofits.

As a RIBA registered practice, we offer the full architectural service from feasibility through to on-site supervision and completion of your project. We will listen to your requirements and provide appropriate solutions.

## Extensions & thermal upgrades

**Is your home cold, draughty and expensive to heat?** Together we can help to reduce your energy demand and fuel bills and at the same time increase your comfort and homes health. We feel that with good design a home can encourage and enable a low carbon lifestyle as well as provide delight.

We have experience of working to different energy standards whilst retrofitting our clients homes such as EnerPHit and AECB silver. We have even managed to achieve full Passivhaus certification at one of our Victorian terrace projects. With the help of our Passivhaus planning package software (PHPP) and unique options reports we can advise you on what are the most appropriate options for you, your home and your budget.

When working with an existing home we aim to make the most



Carrstone house (top), Hiley road Passivhaus (left), Pavenham Refurb (right)

of the space you already have, carefully reorganising spaces and only adding extensions where necessary.

During our tailored briefing process we consider who is going to use each space, what is required in them and when they are going to be used. This ensures we design a home that will work for you.

## New Homes

**Are you thinking of creating a new cosy and energy efficient home?** Our core work focuses on creating sustainable new homes for our clients. Whilst designing a new home we take into

Environment

Comfort

Ethical

People first

Fun

Sustainable

Heathly

account the site context as well as your requirements to provide a sympathetic, appropriate and individual home designed just for you.

Our projects make the most of natural light and solar gain to reduce the reliance on artificial lighting and heating therefore reducing your homes energy demand. We also consider the building form factor whilst designing a new home, reducing the buildings potential heat loss areas. Please see our guide we helped to produce with the NHBC foundation and Cutland consulting- The challenges of shape and form for more information.

We carefully consider material choices, selecting the most appropriate materials for your project. We take the time to understand what is important to you: this could be wanting to use only natural, low carbon or recycled materials.

We feel it is important to consider integrating renewable energy technologies into our projects such as PV and Solar panels, helping to provide zero carbon energy, fuel security and maybe a small income. We are always looking into new ways of reducing, producing and storing energy within our designs.

## Passivhaus Specialists

As certified European Passivhaus Designers we can design your new home to the full Passivhaus Standard or when retrofitting an existing homes there is the



Howe Park, Passivhaus, Milton Keynes

EnerPHit standard. Passivhaus is a construction standard that results in highly energy efficient, comfortable and healthy building.

When designing a Passivhaus it is important create a thermally efficient envelope, which has a continual thermal envelope and triple glazed windows. The building is designed to optimise free heat gains such as from sunlight and the heat generated from living in the home.

It is essential that the structure is as draught free as possible with controlled ventilation from an MVHR unit (mechanical ventilation with heat recovery). An MVHR unit ensures plenty of fresh, pre-warmed (in the winter)

and filtered air circulates around your home.

It is also important to carefully detail any junctions in a building as they are the areas where most heat is lost.

Want to find out more about creating your comfortable and sustainable home, call us on: **01908 363 490**

