

Case Study: The Glebe



The project

A stunning five-bedroom house built to modern, energy efficient standards using SIPs panels and other innovative build technologies, whilst maintaining the traditional aesthetic of the surrounding village.

Location: Cambridgeshire, UK

Materials: Full 169mm kit w/254mm metal web joists. 89X38 cls internal studwork

Area: 312 m²

Project duration: 5 months

Introduction



The Glebe, Cambridgeshire

Small developers are often attracted to SIPs Eco Panels due to their energy efficiency, and the fact they're able to build custom designs up to three times faster than more traditional build methods.

Below, we've highlighted an example of how a client, in this case Inti Construction, used our lightweight expanded polystyrene (EPS) SIP panels to build The Glebe; a modern, five-bedroom house in Cambridgeshire.

The Challenge



Inti Construction initially approached us looking to create a highly energy efficient, luxury modern home in the sought after village of Ickleton, Cambridgeshire, that incorporated innovative build methods and technology.

Despite its modern feel, the house also had to be in keeping with the traditional aesthetic and characteristics of the surrounding village, so Inti were looking for

a solution that would incorporate flint, slate and oak work.

Having researched a number of building methods, Inti decided on SIPs Eco Panels due to the energy efficient inherent nature of our SIP panels, and the fact they could be used to build their custom design (a unique, open-plan home) in a very short timeframe.

The Solution



Our offsite team also provided support to assist Inti through the development

SIPs Eco engineered and designed the full SIPs superstructure using HSB CAD to provide 3D and 2D fabrication drawings for manufacture. As well as installing SIPs on site, our offsite team also provided support to assist Inti through the development.

For the build, SIPs Eco provided the full super

structure using our 169mm SIPs kit, 254mm metal web joists, all internal partitions, all special timbers and steelwork, and all sundries, leaving it wind and watertight ready for follow-on trades.



Integrated solar panels were installed in order to make The Glebe incredibly eco-friendly

The property's facing materials were chosen to fit in with the local village vernacular, which included flint walls, oak cladding and a slate roof. The elevations facing the street were deliberately modest, and all faced with locally-sourced flint.

The rebated, feather edge oak cladding was treated with Sioo:x (wood treatment) to accelerate the ageing process and give it a uniform finish, whilst integrated solar panels

and a 5000L rainwater harvesting system helped make the home incredibly eco-friendly.

By using the SIP structure for their build project, Inti Construction were able to create a very spacious, energy-efficient home with vaulted ceilings that, in turn, allowed for windows to stretch from the floor to the tip of the roof.

The Results



Inti were delighted by the end result of the build, and once completed, the house achieved a rating of 95 on its Energy performance certificate.

Building with SIPs meant Inti could also achieve vaulted ceilings without the need for beams, contributing to the overall open feel of the house, and allowing for natural daylight to flood the home with ease.

We chose the Sips Eco system for its speed of construction and outstanding energy efficiency as well as its environmental properties. The project was built to exacting modern standards whilst maintaining a wholesome village feel. The excellent results speak for themselves' – Julian Vargas, Inti Construction

This project was very quick to build, with the super structure only taking 2.5 weeks in total, and an exceptional example of what can be achieved quickly using our award-winning SIPs system.

The UK's largest independent SIPs manufacturer



About us

We're a family-run business with over 35 years' experience in the construction industry. Our dedicated team of highly-experienced professionals will guide you through every stage of the process, from design right through to completion, via your own dedicated production manager.

Sustainability

We're very proud of our carbon-neutral facility based just north of Edinburgh (making it easy to deliver nationwide). All of our timber is responsibly sourced, and all of our materials can be tracked and traced back to source from sustainable forestry. Why not come and visit us?

**Looking to discuss your next project with a SIPs expert?
Get in touch and request your free consultation today**

YES! BOOK NOW