

Hemsec SIPs Housing Case Studies



Black Isle Inverness

300m²
200mm SIP
Wall and Roof

ThermoPassive

Based in the Highlands of Scotland, ThermoPassive have completed the design and construction of their latest SIPs house structure on the Black Isle near Inverness.

200mm Hemsec SIPs (Structural Insulated Panels) were utilised for both the wall and roof structures achieving the high thermal efficiency required as the property is located next to the sea.

By constructing the property from Hemsec SIPs along with high quality Scandinavian windows, Posi-joint engineered floor joists and a full complement of renewable features including solar panels, wood burning stove and a heat recovery ventilation system, therefore making the house effectively 'carbon neutral'.

With the design respecting the traditional atmosphere of the local fishing village (with natural slates and dormer windows etc.) it also achieves a more contemporary feel to the rear of the property.

Scotland has been building houses almost exclusively in Timber Frame for many decades and it is an easy step for the market to upgrade to SIPs panel construction as the many advantages are easily understood.

Iain Macbeath, Director of Thermopassive Ltd (Chartered Architect) adds: "Energy efficiency is now absolutely paramount with clients and Hemsec SIPs is the best way to achieve this, due to the high quality polyurethane core with 15mm OSB facings which makes the panels perfect for the standard of construction required".



Hemsec SIPs

Housing Case Studies



Pangbourne Oxford

400m²
180mm SIP
Wall and Roof



A new build, two storey dwelling in Oxford has been completed by Doncaster based Creative Space.

The client chose Creative Space on this project to design, supply and erect materials, including structural design by Saul Slater Consulting Engineers, resulting in a modern and thermally efficient custom living space.

Through the use of Hemsec SIPs – Structural Insulated Panel technology, they were able to achieve the clients brief with the additional benefit of maximized internal floor space and reduced times on site. The ‘speed of build benefits’ offered with the SIPs product made them a must have option.

Andrew Smythe, Managing Director of Creative Space commented: “The client was particularly impressed with the reduction in time for the external envelope to be constructed, this was achieved by assembling large format SIPs walls in the factory prior to site delivery which allowed our other trades to follow on much sooner than they would have done using traditional building methods”.

SIPs are completely flexible and can be tailored to suit your requirements. Complicated shapes and angles can be produced more economically than traditional methods and the structural strength of the panels often reduces the need for additional, costly, supporting frameworks.

Creative Space offers their own unique combination of contemporary design, natural materials and outstanding technical expertise; Andrew adds: “We strive for ‘holistic values’, paying attention to all the features a home buyer will value, and we pride ourselves on doing this without any shortcuts”.

With the ability to contribute towards many aspects of the build including Eco-Joists and Structural Steelwork, an offsite approach to this project was achievable. Creative Space can take a set of drawings and completely design, manufacture and supply a whole house which is truly an ‘offsite’ method made to measure requiring minimum site work whilst providing peace of mind for the builder.

