



Structural Insulated Panels



Montrose Close - Verwood

Client:

Synergy Housing

Main Contractor:

ROK

Type:

Social Housing - 10 houses and 18 apartments

System:

SIPCO SIP Wall & Roof Panels



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Providing 10 houses and 18 apartments, this high-quality residential development located in East Dorset offers affordable social housing with a modern, spacious feel. Designed in collaboration with Synergy Housing to ensure the development offered contemporary living with aesthetics in keeping with the local environment.

Affordable Apartments and Social Housing

Surveys and studies conducted in the local East Dorset area indicate an urgent need for more affordable social housing to meet the high demand, particularly apartments. Verwood is a modern town close to several areas of outstanding natural beauty and offers a rich, important cultural and historical heritage. SIPCO and onsite contractors paid great care and attention to ensuring minimal disruption to the local environment and residents. Lead developers Synergy Housing are one of the largest affordable housing organisations in the UK South West and invited SIPCO to provide the SIP wall panels and roof panels for the project.

The Sustainable Solution for Social Housing

SIPCO SIP walls and roofs provided the ideal system for mass building to meet the demands for quality, energy-efficient homes. Precision-engineered offsite in advanced

manufacturing facilities, SIPCO was able to design, manufacture, and install the SIP panels for the project quickly and efficiently. With extensive experience in providing systems to large-scale residential projects, the technical team worked with clients from initial planning to site completion to achieve individual specifications at the highest possible standards.

SIPCO provided mono-pitch roof panels for the development, helping to achieve a varied and engaging aesthetic. SIP wall panel systems offer exceptional thermal performance. The use of mono-pitch roofing also provides internal benefits, giving the interior of the building a more spacious feel and offering the option of additional light via skylights. SIPCO systems are designed to meet NDSS (National Described Space Standards) and can easily be adapted to ensure HQI compliance. By using SIPCO SIP walls and roofs, the team was able to give the client cost and performance certainty, enabling them to deliver on time and within budget.

SIP Technology for Large Scale Projects

SIPCO has experience in delivering large-scale projects across numerous sectors – residential, healthcare, and student accommodation, for example. This experience has culminated in a deep technical knowledge of system performance, best practise, and project management. SIPs provide an ideal solution for mass building due to their durability, performance, and air tightness. SIPCO SIP Panels comply with Building Regulations concerning fire resistance when lined with plasterboard, and are tested at 60, 90, and 120 minutes. The system also offers exceptionally low U-values for walls, ranging from 0.21 to 0.10 W/m²K depending on the building specifications. SIP roof designs can also deliver thermal performance benefits with U-values in the range of 0.21 to 0.10 W/m²K. SIPCO mono-pitch roof systems are quicker to install than other alternatives, reducing build times and labour on site. Manufactured in closely controlled factory conditions, SIPs can be custom designed for each application.

SIPs offer residents long-term benefits through superior thermal and airtightness performance, resulting in reduced heat loss and significantly lower energy bills.

SIP panels also offer longevity and assurance with an expected 60-year lifespan with proper maintenance and management. Our wall panels provide a more sustainable choice than alternative systems. Structural insulated panels contribute positively to the environment by helping to lower CO₂ levels. Sequestered carbon (that might otherwise be in the form of atmospheric CO₂) gets trapped within timber building materials, making SIP buildings an effective form of carbon storage. The SIP wall and roof panels used at Montrose Close will ensure each home achieves energy performance beyond current regulation guidelines, meaning occupants will benefit from significantly reduced fuel consumption and energy costs.





SIPCO SIP Technology

SIPs are manufactured by joining a high-performance rigid polyurethane foam insulation to oriented strandboard (OSB) to produce engineered building components, creating a building product that is predictable and cost-efficient. SIPCO takes responsibility for ensuring sustainability seriously and as such, all timber materials used are verified during supply-chain and comply with the PEFC® International Chain of Custody Standard. Offsite manufacture allows for complete precision and mitigates wastage, and SIPCO adheres to strict quality control measures to guarantee quality, performance, and consistency.

We offer a fully engineered structural insulated panel system that is fully BBA compliant in terms of manufacture and fabrication. All materials used in the manufacture and construction of SIPs are sustainable and recyclable. SIPCO can custom-manufacture SIPs, offering a range of cladding options including: ceramic tiles, steel-faced composites, timber, and cementitious fibre boards to achieve a standardised aesthetic for mass builds. SIPCO SIPs are lightweight, quick to erect, and do not suffer from compression shrinkage and cold bridging associated with stud walls. SIPs provide the ideal solution for houses designed to facilitate habitable living space in the roof zone. No requirement for roof trusses allows for maximum space efficiency.

By purchasing from SIPCO, you can be confident in a fully engineered structural insulated panel system (SIPs) that is fully BBA compliant for panel manufacture and fabrication and FSC®/ PEFC® certified.

**For more information on our
award winning services:**

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