

Thomas Carter Ltd.

Traditional & Contemporary
Sustainable Homes



STRUCTURAL INSULATED PANEL SYSTEM

www.thomascarter.co.uk

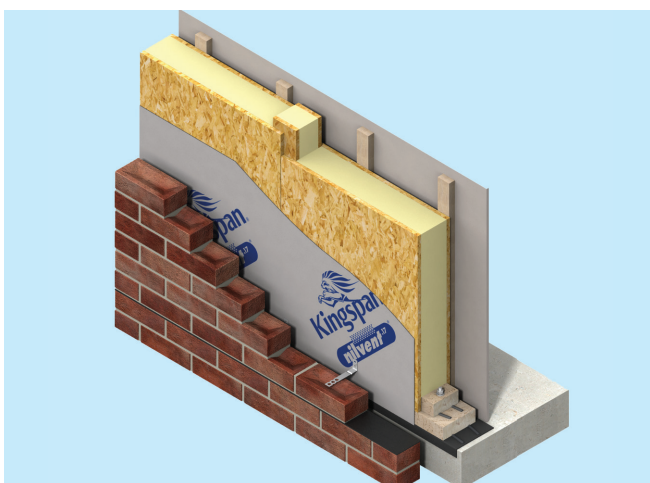




KINGSPAN is the UK's leading manufacturer of premium, high-performance insulation products and building systems. Their **Structural Insulated Panels (SIPs)** are an advanced building solution, combining insulation sandwiched between two boards—typically oriented strand board (OSB)—to deliver superior thermal performance, airtightness, and build efficiency.

While there are many proprietary SIP systems on the market, **Thomas Carter**, as a **Kingspan TEK™ Delivery Partner**, supplies the industry leading **Kingspan TEK™ Building System**.

Kingspan TEK™ panels feature **high-performance, fibre-free rigid thermoset urethane insulation** as the core, autohesively bonded between two OSB/3 boards. This highly controlled manufacturing process ensures **exceptional reliability and superior performance**, far exceeding the 'secondary adhesion' methods often used in lower-quality panels. The result is a building system that is faster to construct, more energy-efficient, and built to last—delivering the **premium quality and precision** our clients expect.

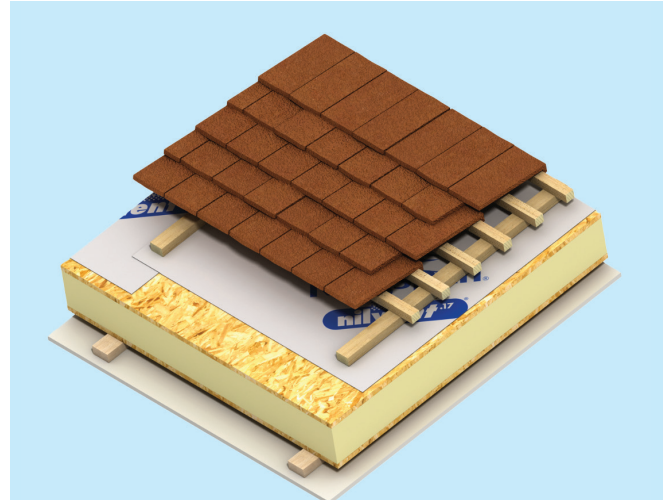


Superior Energy Efficiency

- **Thermal Performance:** Fibre-free rigid polyurethane insulation minimises thermal bridging.
- **Airtightness:** Exceptional, consistent sealing reduces heat loss and draughts.

- **Energy Savings:** Improved insulation can significantly reduce heating costs.

Construction Advantages



- **Speed:** Off-site manufactured panels enable rapid on-site assembly, reducing build time and disruption.
- **Quality Control:** CNC-cut panels produced in a controlled factory environment ensure precision and consistency.
- **Lightweight Construction:** Reduced structural load can lower foundation requirements.

Structural & Design Benefits

- **Strength:** 15mm OSB/3 panels provide robust structural performance, suitable for buildings up to four storeys.
- **Space Optimisation:** Slim wall profiles maximise internal, usable floor space.

Sustainability

- Low embodied carbon construction
- PEFC-certified timber components
- A responsible, future-focused building solution with responsible and proven supply chain audits





THOMAS CARTER is an innovative construction company with over 40 years' experience in the building industry. Our approach blends traditional craftsmanship with sustainable, forward-thinking construction methods to deliver buildings that perform better, last longer, and feel exceptional to live and work in.

In 2004, Gerry, was introduced to Structural Insulated Panels (SIPs). Immediately recognising their potential, he saw how this advanced system could overcome many of the limitations of conventional construction. Offering faster build times, enhanced thermal performance, and increased usable floor space, SIPs represented the future of high-quality building.

Thomas Carter committed to extensive training and development to combine decades of conventional build expertise with the premium design, performance, and longevity that SIPs provide. Today, we are proud to be an approved Kingspan TEK™ Delivery Partner, delivering industry-leading SIPs solutions across residential and commercial projects.

Kingspan SIPs Premium Performance by Design



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Building with SIPs – The Thomas Carter Approach Smarter Building with SIPs

We provide a complete, end-to-end service for SIPs and modern construction projects, from design to installation:

Engineering & Design

- Full structural design of the SIPs package
- Comprehensive calculations for line and point loads
- Detailed design documentation and package preparation



Fabrication, Manufacturer & Installation of full SIPs Superstructure

- SIPs Wall Panels – 142mm and 172mm options
- Timber-Frame Partitions & Party Walls – load-bearing and non-load bearing
- SIPs Roof Panels – 142mm and 172mm options
- Truss, Attic Truss joisted & decked roofs, tailored to project requirements
- POSI/EASI Joist Floor Systems – 22mm P5 weather-resistant deck
- Structural Steelwork, Glulams or Kerto – fully integrated with your build





Optional Bespoke Turnkey Solutions

For local projects, Thomas Carter offers a comprehensive turnkey service, delivering every stage of construction with precision and quality with trusted partners.

Services include:

- **Groundworks** – site preparation, foundations, drainage, end of project landscaping
- **Roofing** – all roof types, fully integrated with your build (slate, tile, single ply membrane)
- **Glazing** – windows, skylights, doors and bespoke glazing solutions

- **External Finishes** – cladding, render, and brick slips
- **Internal Finishes** – plaster boarding, plastering, screed, and carpentry
- **Electrics** – home automation, bespoke lighting design, CCTV & security
- **Plumbing** – bathroom/utility fittings, underfloor heating, boiler installation

From concept to completion, Thomas Carter ensures precision, quality, and performance at every stage of your SIPs project.



Project Range & Clients Expanding Spaces. Built to Last.

Our project portfolio can be viewed online at www.thomascarter.co.uk, showcasing the breadth and quality of our work across both residential and commercial sectors.

Thomas Carter delivers projects of varying scale and complexity, including **private homes, extensions, commercial properties, warehouses, schools, conversions, apartment buildings, houseboats, and bespoke home offices.**

We work with a diverse range of clients, including private homeowners, architects, property developers, main contractors and local authorities.

From carefully considered ground-floor extensions to luxury new-build homes and technically complex structures, each project is approached with the same attention to detail, craftsmanship, and commitment to quality—regardless of size or scope.

SCAN TO VIEW
WEB SITE



“My SIPs build is light and airy with excellent insulation which keeps it cool in summer and warm throughout the winter. All my clients remark on its pleasant and calming atmosphere, and for me it is a very therapeutic place in which to work. The workmanship is superb, and the materials and finish are of a high quality throughout. Gerry and his team are hard-working, highly skilled, and a pleasure to have around.”

HOMEOWNER, KENT

“Thomas Carter conducted a complete turnkey renovation of my existing home, and the supply and erection of a new SIPs flat roof, kitchen extension with two skylights, and bifold doors to the rear. From the initial steps of selecting architects to offering design suggestions, Thomas Carter provided invaluable guidance, recommending top-tier third-party contractors (electrician, tiler, groundworker, roofer, plasterer, etc.) to bring the project to fruition. The internal finishes to my home were completed to an extremely high standard, and the project was finished ahead of time, taking just six months from receiving planning permission to completion.”

HOMEOWNER, KENT

“The whole process was carried out very efficiently and expertly even with basic plans that were provided by the client. The Kingspan SIPs system is extremely fast to construct which produces a very energy efficient building. We hope to use this system in many more floating homes in the future.”

CONTRACTS MANAGER, LONDON

“We’re very pleased with the SIP construction- it’s worked out exactly as we’d hoped it would, giving us a warm and spacious room- and would certainly recommend anyone else in our position to consider building with SIPs and working with Thomas Carter.”

HOMEOWNER, WHITSTABLE

“I have to say I don’t think we could have achieved certification without your expertise; it was our first one and your workmanship was great!”

ARCHITECT, NEW BUILD HOME, LONDON

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