

The logo consists of a stylized white line-art icon of a timber frame, showing three vertical posts and three horizontal beams forming a triangular roof structure.

LOWFIELD
TIMBER FRAMES



*A reputation for service, quality
& excellence in all areas.*



Contents

Our Story	04
Sectors	06
Why Timber Frames?	08
Our Products	10
Manufacturing Capabilities	19
Embodied Carbon	21
Lowfield Credentials & Accreditations	22
Contact Us	23



Our Story

With over 25 years of experience supplying our engineered timber products, we have earned a reputation for service, quality and excellence in all areas.

We supply to a wide range of customers from self-builders, local small builders to large regional and national developers. Everything we do is bespoke, we take your architect's design and turn it into reality developing specifications tailored to your building needs. As demand for high-quality, low embodied carbon & energy efficient homes has grown, quite simply so have we.

We have dedicated time to expanding our knowledge and understanding of new principles and are fully equipped to help you achieve your low-energy build. Our vision is to be part of the construction industry striving for change to build our future greener, we have been part of some of the UK's largest Passivhaus schemes. With our in-house Certified Passivhaus Designer, we can offer a design-to-delivery journey focusing on a fabric-first approach.

We are proud to be an STA Assure Gold member. The accreditation highlights the differing levels of quality procedures, management systems and product performance standards, together with external accreditations.



Our Sectors



Residential



Education



Hotels



Self Build



*Bringing efficiency,
simplicity and reliability to the
construction process.*



The Benefits of Timber Frame

Speed

- ▲ Faster construction than masonry builds.
- ▲ The impact of weather is reduced.
- ▲ Watertight in days.

Quality

- ▲ Frames are constructed in a quality controlled factory setting.
- ▲ STA Assure Gold members and third party accreditation's.

Cost

- ▲ Saving in construction costs and operational costs, helping to save money in the long run.
- ▲ Reduced overheads.
- ▲ Rental income streams start earlier.

Environment

- ▲ Completely renewable source.
- ▲ Carbon neutral material lowest embodied carbon cost of all building materials.

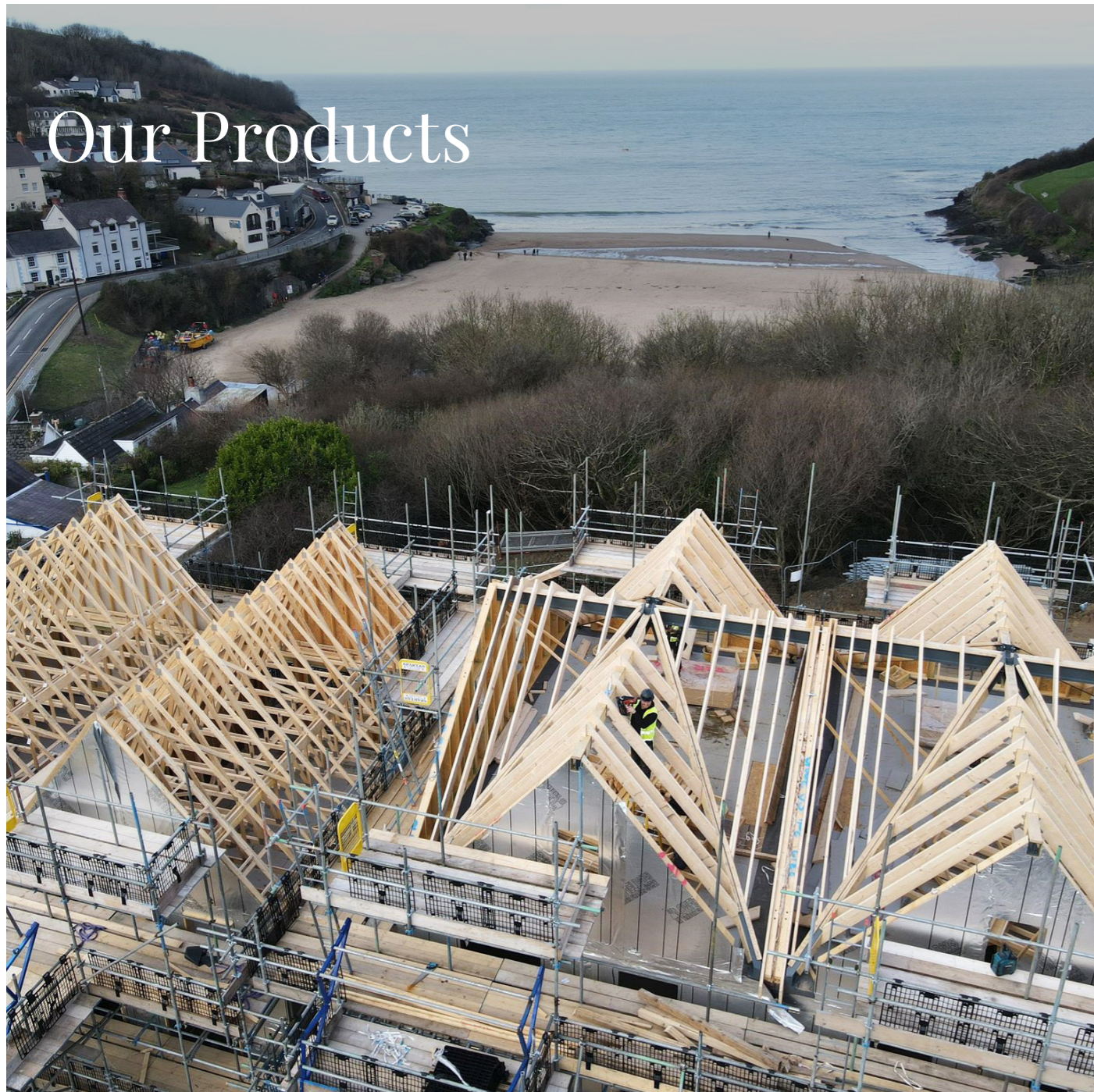
Performance

- ▲ Acoustic performance, timber frame creates better sound insulation between rooms.
- ▲ Thermal insulation creating lower heating bills.

Flexible Design

- ▲ A host of different products to meet structural and visual requirements.
- ▲ Lighter construction for foundations can benefit poor ground conditions, which may limit building materials.

Our Products



Timber Frame

Modern timber frame structures are precision-engineered, strong and durable. The build method relies on a factory manufactured timber frame as a means of structural support.

The construction of timber frame-based structures utilises factory manufactured wall panels, floor and roof cassettes.

At Lowfield Timber Frames, we pride ourselves on offering a tailored approach to meet the project's key drivers. Whilst some of our clients are simply looking for the most cost-effective solution to meeting current building regulations, many are looking for advice on how to improve the thermal performance of the building's fabric.

Whether that is reducing the thermal bridging or improving the airtightness, we have a suite of solutions to meet your requirements. We are one of the go-to timber frame manufacturers in the UK working to Passivhaus standards. Offerings range from "Open-Panel" timber frame all the way up to our "Larsen Truss / Twin-Wall System"

Floor & Roof Cassettes



Our cassettes can be manufactured in various forms to suit the bespoke requirements of each build, with the ends cut to suit the pitch of the roof and the connection to the wall plate.

Using roof and floor cassettes has many advantages such as reduced time working at height, quicker construction, reduced air leakage and thermal bridging and less site waste. Our cassettes can be manufactured using solid timber, I-joists or metal web joist systems. They all come with lifting straps pre fitted to improve health and safety and stair apertures are framed out with fall protection.

Our roof cassettes, which have been 3rd party audited accreditation to meet current NHBC requirements, ensure the building is made watertight at the earliest opportunity. As well as providing the roofing membrane and counter battens, our system also allows us to pre-fit rooflights if desired.



Structural Joinery

With our in-house joinery capabilities, we craft a wide range of bespoke structural timber solutions – from elegant feature trusses for traditional post-and-beam homes to Oak porches, car ports, and expansive glulam structures for large-scale commercial projects.

For clients looking to reduce embodied carbon by replacing structural steel with engineered timber, our service offers both aesthetic and environmental benefits.

Equipped with three state-of-the-art Hundegger machines, including the ROBOT-Compact, we can process timber up to 300x650mm in section and 12m in length. The 6-axis robot unit with automated tool changer ensures exceptional accuracy and efficiency, allowing us to deliver complex, high-quality components for even the most demanding projects.

Passivhaus

Passivhaus adopts a whole-building approach with clear, measured targets, focused on high-quality construction, certified through an exacting quality assurance process.

Lowfield Timber Frames are pioneers in Passivhaus construction and have a wide portfolio of projects ranging from self-build homes to large schools and social housing estates. Lowfield's has its own certified Passivhaus designer who can get involved in the early stages of your project, applying a fabric-first approach.



Larsen Truss

Our premier wall solution for energy-conscious clients, the Larsen / Twin-Wall system is a structurally engineered approach that allows for exceptional thermal performance.

This system features a lightweight, engineered twin-stud build-up, designed to create a deep insulation zone capable of achieving a wide range of u-values. The system not only enhances overall thermal performance but

also significantly reduces thermal bridging at critical junctions, helping meet demanding energy efficiency targets — including Passivhaus standards.

Typically, the cavity is filled with Warmcel cellulose insulation, made from recycled newspaper and treated with natural mineral salts for fire, insect, and fungal resistance. Wood fibre insulation is also a popular option, offering excellent thermal performance with a low embodied carbon footprint.



Site Erect Capabilities

At Lowfield Timber Frames, we understand that every construction project comes with its unique set of challenges and requirements. That's why we are committed to offering tailored solutions to meet the specific needs of our clients, particularly when it comes to site erection.

Our team collaborates closely with clients to optimise their site construction program. By understanding project timelines and constraints, we can adapt our approach to best suit your needs, ensuring seamless integration with your overall construction schedule.

One of the key advantages of partnering with Lowfield Timber Frames is our ability to maximise timber frame panel, floor cassette & roof cassette sizes to align with crane erection programs. This strategic approach not only enhances efficiency but also minimises downtime, allowing for smoother project progression.

With our crane erect capabilities, we have the capacity to build multiple units simultaneously, significantly reducing construction timelines. By leveraging advanced techniques and equipment, we streamline the erection process, delivering results that exceed expectations while maintaining the highest standards of quality and safety.

Together, we strive to be a driving force in building a greener future.





Manufacturing Capabilities

Lowfield Timber Frames stands as your reliable partner in timber frame kit manufacturing. Situated across 8.5 acres, our expansive manufacturing space facilitates the production of over 2,500 units annually, all delivered punctually to meet your project deadlines.

Our operation is meticulously structured into three stages: Precision Cutting Shop, Tailored Manufacturing, Efficient Transport Solutions. At Lowfield Timber Frames, quality is paramount. Our stringent quality control checks and in-house logistics guarantee the highest standards at every stage of production.

We have opened our doors to a wide range of organisations such as housing associations, architects, the Houses of Commons and Homes England. As proud members of Woodknowledge Wales, we have also helped support factory tours and provided presentations to Students, the Forestry Commission, and the Government's Housing Standards Technical Team to name just a few.

If you're curious about how Lowfield Timber Frames can support your next project, we invite you to visit our facilities and see our capabilities first-hand. Don't hesitate to reach out to us – we're here to turn your vision into reality, one timber frame at a time.

Over 25 years of industry experience with a track record of delivering excellence.



Net Zero

Lowfield Timber Frames has worked with several councils and large contractors to help deliver homes that are part of the net zero carbon agenda. We have provided timber frame kits and guidance for several Passivhaus projects including schools, social housing developments and self-build homes.

Most of our projects are aimed at achieving net zero, carbon neutral or carbon negative results. Sustainability is at the heart of what we do.

We encourage a fabric first approach. The fabric first approach is simple; it's carefully considering the design and construction of your building envelope in the initial design stages, before any building work begins. Principles and measurements like airtightness, U-values, thermal bridging, triple glazing and solar gain are a big part of the fabric first approach and contribute to minimising the energy usage required in a home.



Embodied Carbon

Timber products stand out with the lowest embodied carbon among mainstream building materials. Wood serves as a long-term carbon store, absorbing more carbon than it emits during processing and installation, thus reducing a building's carbon footprint.

Many companies and homeowners are aiming to decrease their operational carbon footprint by improving building performance. However, as we transition to "Net Zero", it's crucial

to also consider embodied carbon, emitted during material production. Alongside efforts to minimise our carbon footprint during manufacturing, our wall build-ups often incorporate natural insulation like cellulose or wood fibre, further reducing the embodied carbon of each build.

Wood is an ideal choice for a circular economy an alternative to the traditional linear model. In a circular economy, resources remain in use as long as possible, extracting maximum value before recovery and generating new products and materials. At the end of a timber-framed building's life, most materials can be recycled and reused.



Credentials & Accreditations

We are proud of our accreditations.

Our accreditations put our customers at ease knowing the best quality products are being produced and procedures are being adhered to. We operate within our Quality Management System ISO 9001 and all our timber is PEFC certified giving us a full chain of custody for our timber materials.

We are an STA Assure Gold member. The accreditation highlights the differing levels of quality procedures, management systems and product performance standards, together with external accreditations.

We are members of Woodknowledge Wales who champion the development of wood-based industries for increased prosperity and well-being in Wales.

We are also supporters of the Passivhaus Trust and have in-house certified designers to support you every step of the way.

You're in safe hands with Lowfield Timber Frames.



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