



Wyckham Blackwell
timber engineering

Since 1884



For all your Timber Engineering Solutions

TIMBER FRAME
SIPS
PASSIV

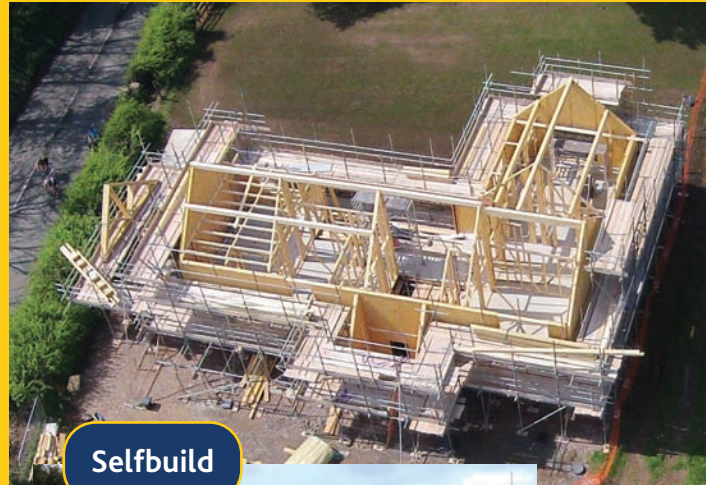
ROOF & FLOOR CASSETTES
TRUSSES
JOISTS



"...better by design"



SIPs Superstructures



Selfbuild



SIPS

Timber Innovations is a Kingspan TEK delivery partner with extensive experience in housing and commercial projects. Our in-house design & engineering team always achieve the most efficient structures.

- Speed of build
- BBA approved
- U-values 0.19 to Passive-house
- Vaulted roofs for optimum use of space
- SIPs allow simple solutions to achieve air-tightness



Commercial



- Fast assembly
- Lightweight
- Accurate as built dimensions
- Excellent thermal performance
- Hybrids with glulam & steel structures
- Metal web joists for simple installation of follow-on trades

Passivhaus

Timber Innovations are experienced in a variety of techniques to achieve Passivhaus / 'Near Zero Energy' compliance.

Design & Engineering

We can offer design & engineering input to improve buildability and are always happy to offer advice based on our experience. Our manufacture process is inherently flexible and we regularly design and manufacture bespoke solutions to eliminate/reduce cold bridging.

High comfort, low energy

We offer timber frame & SIPs solutions to meet Passivhaus and 'Near Zero Energy' requirements.

- Airtightness detailing of complex junctions
- Larsen Truss Specialists – to reduce cold bridging
- Natural, breathable insulation options
- Engineer, design, manufacture & install
- Factory-filled Warmcell panels are now available

Timber Frame Superstructures



Our impressive track record of projects range from Self and Custom built homes to Schools and Care Homes. Our ability to offer oak features combined with timber frame, and efficiently integrate with glulam or other structural elements, set our designs apart.

- Bespoke superstructure from our in-house design and engineering team
- Choice of U-Value solutions
- Other wrap around services with our Innovations PLUS package
- Vaulted ceilings and insulated roof cassette solutions



Selfbuild



ROOF & FLOOR CASSETTES

Commercial



- Structural wall panels with Metal web floor joists and a range of roof structures
- Complete freedom of choice for external finishes
- Complex structures, up to five storeys - or more if onto a podium
- Experience with education buildings, hotels, student accommodation & care-sector projects
- Design, supply, manufacture & installation nationwide

"...better by design"

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Wyckham Blackwell

For all your Timber Engineering Solutions

At Wyckham Blackwell we understand timber and how timber engineered products can save our clients time and money.

Established in 1884 our services and expertise have been honed for well over a century.

We offer a comprehensive design and manufacturing service through our team of "in-house" professional designers.

Our manufacturing facilities are all quality controlled and CE certified.

We welcome working alongside our clients on any project from inception to completion.

Attic Trusses

Providing a room in the roof by installing attic trusses has huge benefits all round for the home owner and builder maximising living space.

We are also one of the few companies to regularly design and manufacture trusses with up to 18 metre spans.



Trussed Rafters

Wyckham Blackwell understand timber, its beauty, its strengths and its versatility. With a background of over 100 years in the timber and joinery industry, we believe we also know our customers.

The company has a wealth of experience in manufacturing, delivered with high levels of service tailored to meet customers' specific needs.



Over the last 40 years we have developed an unrivalled reputation for the design and supply of quality trussed rafters to provide roofing solutions whatever the size of the project.

Design trends in both domestic housing and commercial developments have moved more and more to complex roof structures with trussed rafters being the ideal construction solution.



Wyckham Blackwell offer the architect, designer and contractor a complete roof design service to help take advantage of the material and construction savings by using timber trusses.

Roof Panel Systems

Spandrel Panels

Feature Trusses

Timber Frame

ROOF & FLOOR CASSETTES



Eaves to Ridge Roof Panel Cassette System with Glulam or Box Truss Ridge Beams. Modular, interlocking panels, mean construction on site is simple. The result is a totally open, light and airy space. All fully supported with layout drawings and calculations.

SPANDREL PANELS

Spandrel Panels

A cost effective alternative to blockwork party walls affording major Health and Safety benefits whilst offering considerable build time savings.

Supplied as fire and sound rated timber frame panels, made to the profile of the roof, they remove the need to build up masonry party walls into the roof space saving time on build programmes. Supplied with built-in lifting straps they are installed alongside the trusses to form a fully compliant dividing wall.



Timber Treatment

Trusses

Roof Cassettes

Porches

GABLE PANELS

Gable Panels

Wyckham Blackwell has an enviable track record in the detailing, off-site manufacture, supply and installation of Gable Panels. These factory-produced pre-fabricated panels are an alternative to traditional brick and block gable ends.

Designed to meet UK Building Regulations as well as the profile of the roof, panels are installed alongside the trusses. By eliminating the need for scaffolding and simplifying the sequencing of other trades in the roof, panels can assist in the reduction of on-site costs whilst significantly improving Health and Safety procedures.

Feature Trusses

We can combine our engineering expertise with traditional carpentry skills to produce custom made, heavy section, feature trusses. Hand made in Softwood or Hardwood, we create styles and detailing that will suit your specific environment.



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Performance Built-in



Treated Construction Timber from Wyckham Blackwell

Timber is still our most versatile and adaptable construction material. A warm, attractive and cost effective product, it is easily worked for a wide range of end uses and has a tremendous natural strength.

Timber can be made to perform to even higher standards by properly protecting against the risk of fungal and insect attack. Vacsol Aqua treated timber from Wyckham Blackwell has been impregnated through the Vac-Vac process with Vacsol Aqua wood preservative to give it this extra quality.

Our in-house treatment facilities provide a quick and professional service for all of your building and roofing timbers.

Vacsol Aqua treated timber used in Use Classes 1 and 2 applications is treated to a desired service life of 60 years.

Specifications and Standards Vascosol

Aqua preservative is tested in accordance with the requirements of EN 599, including extended field trial testing. VACSOL Aqua treated timber is treated in accordance with the penetration and retention requirements given in BS 8417. Use Classes are defined in EN 335. VACSOL Aqua treated timber meets NBS (Z12), National House Building Council and the Wood Protection Association National Specifications.

Desired Service Life

The desired service life does not provide a guarantee of performance but an indication of the expectation against which the recommendations for timber treatment are drawn up, assuming good design and normal conditions of use.



The natural alternative to steel or concrete that is economical, strong and attractive. Glulam is made by gluing together, under pressure and heat, laminates of timber that have been accurately planed. The resulting product is strong, stable, and corrosion proof with significant advantages over structural steel and concrete.

The beams are made with wood from sustainable forests and are long-lasting and easy to work with.



Metal Web Easi-Joists

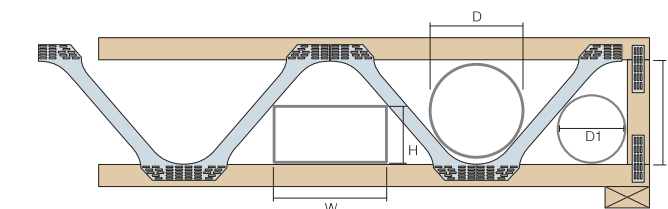
Advantages

- Rapid installation - increased span capacity
- Open web design - complete flexibility for service runs
- Large bearing surface - easy fixing of flooring and plasterboard
- Engineering service - layout drawings and design calculations
- Made to measure - no waste on site
- ISO 9001 Approved - CE certified manufacture
- Can achieve long span Easi-Rafter solutions



Technical Specification

Joist depth (in mm)
195, 219, 254, 304, 417



Clearance for circular service

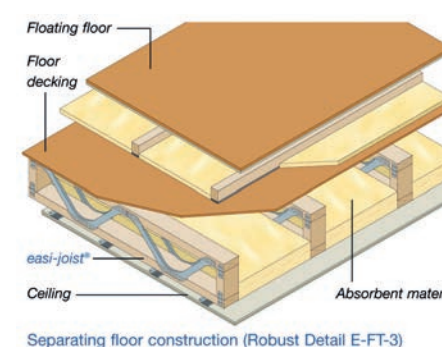
	WS200	WS250	WS300	WS400
A (mm)	125	160	210	323
D (mm)	100	150	200	280
D1(mm)	100	100	130	190

Domestic Floors

No insulation required for joists 219mm and above. Independent sound and fire tests have been carried out to prove that Wyckham Blackwell Metal Web Easi-Joists do not require insulation within the floor void in order to conform with the requirements of relevant Building Regulations.

Build into Party Walls

Metal Web Floor Easi-Joists can be built into party walls. Simply seal the joint with a silicone sealant in order to comply with both Robust Details and Engineered Wood Products Code of Practice for air tightness.



E-FT-3
Separating Floor –
Metal Web Joists
Use with Timber
Frame walls only



“...better by design”



“...better by design”

Gable to Gable

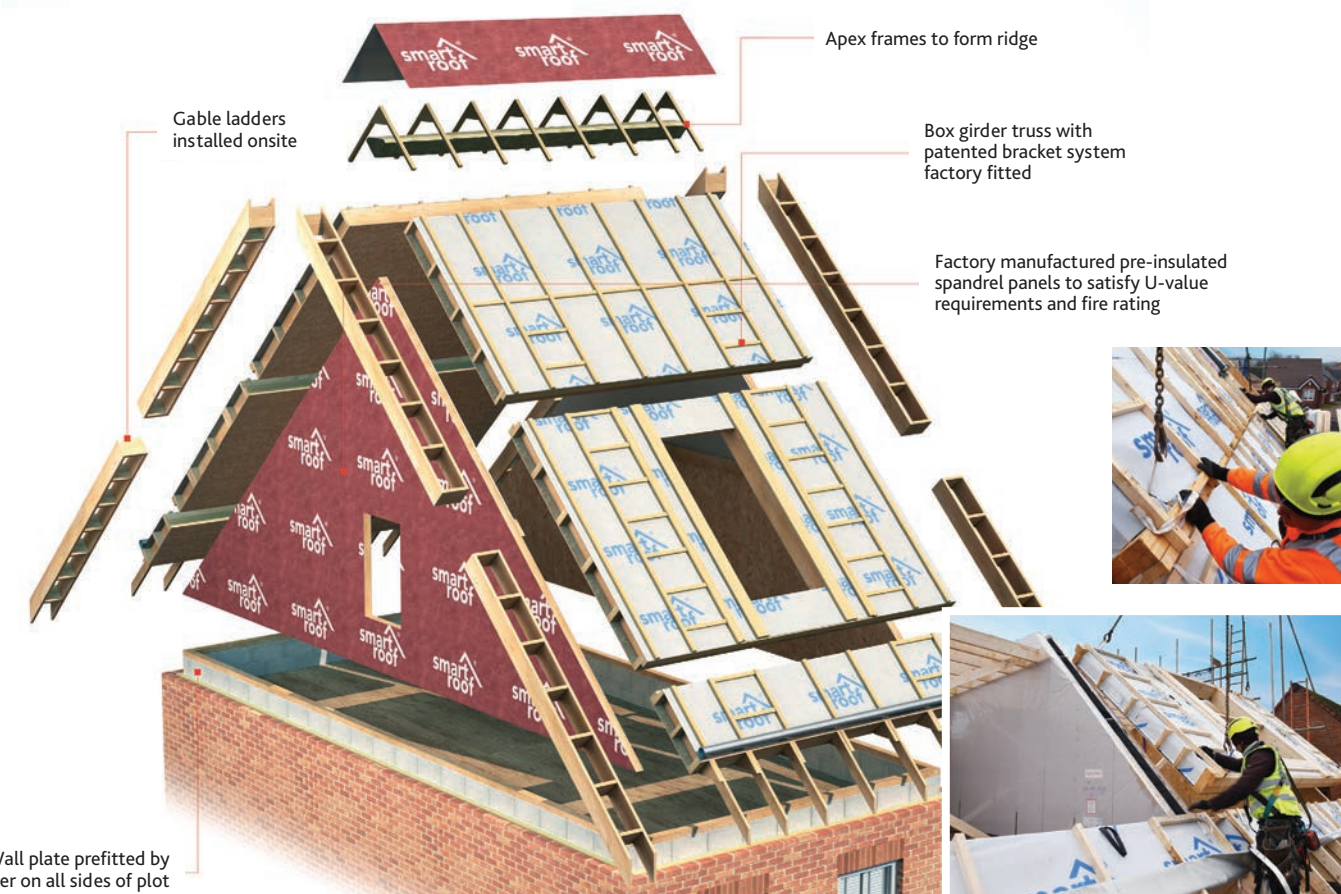
A gable to gable Smartroof plot is a roof that spans approximately 5.6m in width.

Due to this relatively short span, our roof panels span and are installed 'gable to gable' this ultimately means that the roof panels land horizontally, and are supported by the two gable spandrel panels.

Smartroof utilises a unique patented design and engineering system that facilitates this installation process which has many selling points:

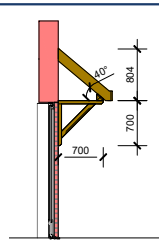
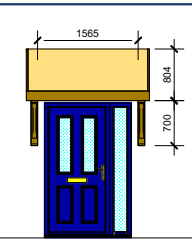
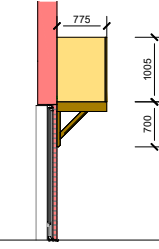
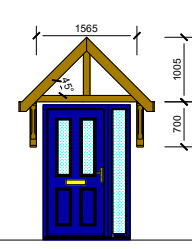
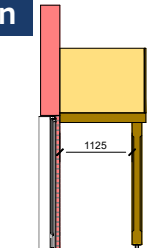
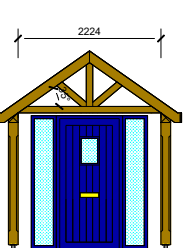
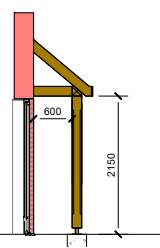
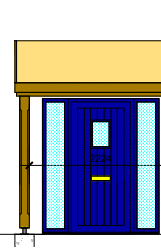
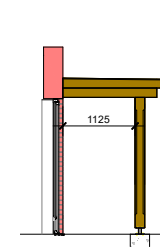
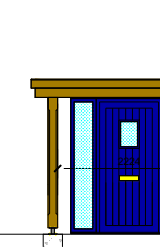
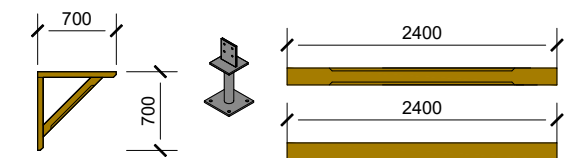
– Spanning gable to gable provides flexibility in design and the option to utilise more roof space by incorporating vaulted ceilings.

- Due to the panels being supported by the two gable ends, there is no requirement for internal support (glulams/steels/box girders).
- The process of installation is safe - the panels are installed at the eaves first which braces the structure after the first panels are landed.
- Typically there would be 3 panels per side of the roof, this enables fast efficient installations with reduced lifts required onsite.



- All Timber Joinery Grade Softwood. Oak option +50%
- Porches supplied unfinished for painting on site.
- Posts/Beams/Gallows supplied loose.
- Fixings, Felt, Battens, Tiles or Finishing not supplied.
- Lead time - 4 weeks.
- Collected prices. Delivered prices by application.
- Excludes Post Bases; additional cost as below if required.



	STANDARD	WIDE	PRICE														
Fentham			<div>Standard £575 + VAT</div> <div>Wide £625 + VAT</div>														
Eastcote			<div>Standard £775 + VAT</div> <div>Wide £825 + VAT</div>														
Packington			<div>Standard £950 + VAT</div> <div>Wide £1150 + VAT</div>														
Arden			£950 + VAT														
Hampton			£1250 + VAT														
<div>ADD ON ITEMS</div> <table><tr><td>700 x 700mm Gallows bracket in softwood</td><td>£90 each</td></tr><tr><td>700 x 700mm Gallows bracket in Oak</td><td>£135 each</td></tr><tr><td>100 x 100mm Softwood Post 2400mm</td><td>£95 each</td></tr><tr><td>150 x 150mm Douglas Fir Post 2400mm</td><td>£145 each</td></tr><tr><td>150 x 150mm Double Fir Post with stop chamfers</td><td>£175 each</td></tr><tr><td>Galvanised post base</td><td>£145 each</td></tr><tr><td>Stainless steel post base</td><td>£235 each</td></tr></table> <div></div>				700 x 700mm Gallows bracket in softwood	£90 each	700 x 700mm Gallows bracket in Oak	£135 each	100 x 100mm Softwood Post 2400mm	£95 each	150 x 150mm Douglas Fir Post 2400mm	£145 each	150 x 150mm Double Fir Post with stop chamfers	£175 each	Galvanised post base	£145 each	Stainless steel post base	£235 each
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DORMERS

THE FASTER, SAFER, DORMER OPTION

PRODUCT DESCRIPTION

The Wyckham Blackwell Pre-fabricated Timber Dormer Kits are designed to reduce on-site time and labour costs, providing a simple and safe ready-to-fit solution for housebuilders – an ideal alternative to forming by hand.

FEATURES & BENEFITS

Each dormer kit consists of individual side cheeks, gable panel and roof trusses, for a complete solution in one package:

- Simpler – single trade solution
- No cutting – reduces installation time and labour costs
- Safer build – working at height reduced
- Pre-clad, ready for exterior finish – saves time on-site



TECHNICAL DETAILS

Dormers are constructed from 47x97mm TR26 Timber, they also include a Gable Panel and Roof Trusses. A Specific opening is created to accommodate the correct window height and size. The Dormers are then clad with 9mm OSB3 to the entire external face. To complete the installation, necessary timber is supplied to valley the Dormer to the Roof Trusses.

Roof and floor cassettes

Wyckham Blackwell can provide roof trusses/panels and engineered floors. All dwellings are constructed using high performance and thermally efficient materials.

ROOF & FLOOR CASSETTES



- Manufactured using I Joists or Metal Web Beams
- Variety of sheet materials/finishes available
- Factory fitted rim beams & metalwork
- Design & Engineering 'in-house'
- Factory insulated option



- Built in lifting loops for crane erect
- Robust details compliant
- Increased speed of build
- Pre-planned service runs



I-JOIST





Services



As well as supply only for your complete engineered timber package of products, Wyckham Blackwell can also quote for and provide a complete SUPPLY & FIT solution.

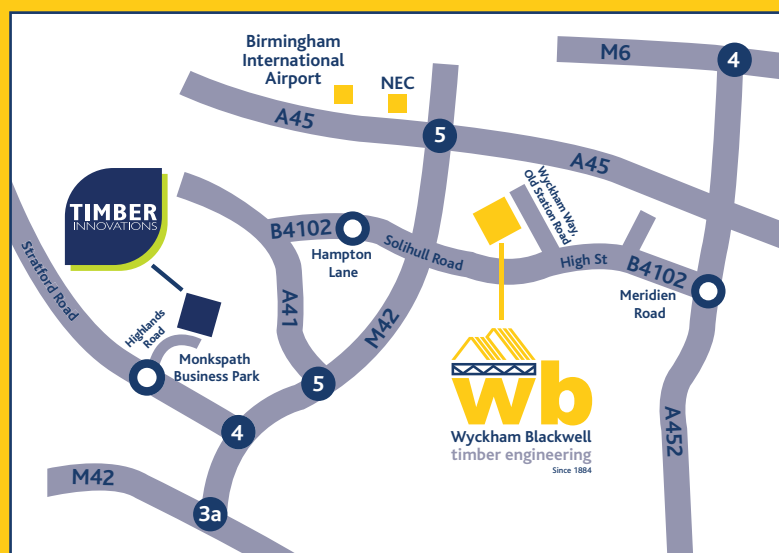
For large complex roofs and floors we offer a structural carcass installation facility to provide a "one stop solution". Our Contract Managers and installation teams provide a complete SUPPLY & FIT package including all necessary Crane Hire.



Where trusses or joists are required very quickly, we offer a five day FASTRACK delivery service from receipt of signed drawings.

From project inception to completion our service commitment reinforces our mission statement "to provide innovative, cost effective, timber solutions to enhance the quality and speed of construction".

For all your Timber Engineering Solutions



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