



Roof Trusses

Posi-Joist™

Laminated  
Timber Beams

Room in  
the Roof

Timber Frame  
Panels

Infill Timbers  
& Metalwork

Installation

Weight 13Kg/ply

Weight 19Kg/ply

# DWB

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## TIMBER ENGINEERING

# Complete Timber Engineering Solutions





## Complete Timber Engineering Solutions

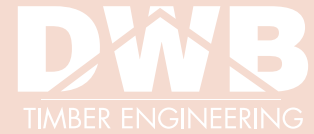
DWB have been producing Roof Trusses since 1986. We are an independent company with an enviable reputation for our range of **Roof Trusses, Posi-Joist Engineered Joists and Timber Frame Panel Kits**, along with other **Timber Engineering Services**.

Our Design Offices & Fabrication Plants are strategically sited in Essex, Lincolnshire and Humberside, this allows us to cover a large percentage of England whilst retaining a local company feel.

All roof trusses, Posi-joist and timber frame panels can be supplied with **PEFC Chain Of Custody Certification** and by maintaining **Third Party Quality Assurance Systems** you can have confidence in the quality of our products.

Since 1998 DWB have designed and manufactured **Open Web Floor Joists** making us one of the first Trussed Rafter Fabricators to do so. DWB regularly delivers these to both individuals and large house builders around the country.

We have also entered the Timber Frame market and can produce OSB sheathed Timber Frame Kits to suit your requirements.



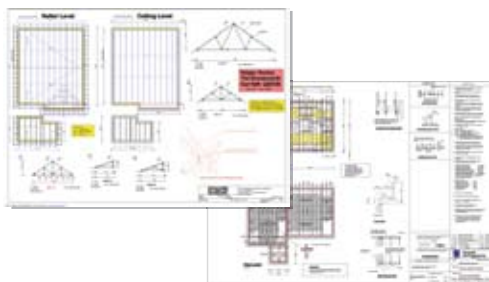
- **OVER 20 YEARS DESIGN EXPERIENCE**
- **CONTINUED INVESTMENT & DEVELOPMENT**
- **FULL BESPOKE DESIGN, WITH SUPPORT THROUGH TO INSTALLATION**
- **FAST & EFFICIENT TURNAROUND FROM PLACEMENT OF ORDER.**
- **COMPLIMENTARY SITE VISIT UPON ORDERING**
- **ALL TIMBER IS SOURCED FROM PEFC CERTIFIED FORESTS**
- **SPECIALIST FITTING SERVICE TO MINIMISE INSTALLATION PROBLEMS**
- **ISO9001 ACCREDITED**

## Roof Trusses

### Roof Trusses

With over **20 years of design and fabrication** know-how behind us, DWB are experienced in **meeting our customer's needs**. Our design offices employ highly skilled staff, whose on-going software development training ensures we are at the leading edge of the industry.

Using state of the art software, we can prepare full colour working drawings for many types of roof structure, from a self-build garage to multi-house developments.



Structural calculations are provided and plans include details on structural infill timber and builders metalwork. Our services include:

- Full Roof Designs
- Collateral Warranties
- Feasibility studies
- Large span trusses
- Site surveys to confirm production sizes and pitches
- Friendly advice on erection procedures

We have the facilities to design to current Standards, including BS5268 part 2+3 and EuroCode 5.

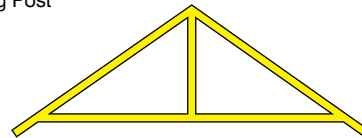
Our production plants operate tried and tested machinery for **high levels of accuracy and reliability**, aided by an ISO9001 Quality Assurance scheme controlled by TRADA. Timber sustainability is assured as we hold PEFC Chain Of Custody Certification.

As members of the TRA (Trussed Rafter Association) we can supply the much acclaimed TRA Technical Manual which helps customers specify and erect Roof Trusses correctly.

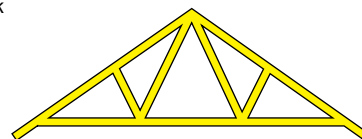


### Example Truss Profiles

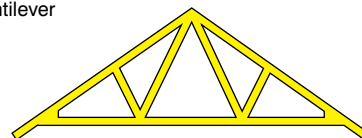
King Post



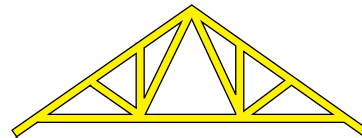
Fink



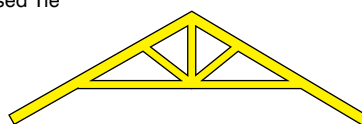
Cantilever



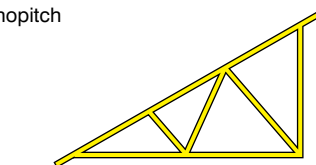
Fan



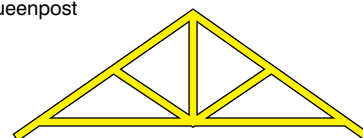
Raised Tie



Monopitch



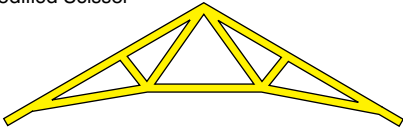
Queenpost



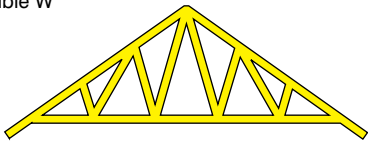
This is just a small selection of the profiles available, for more information or bespoke solutions please contact your nearest office.

**Example Truss Profiles**

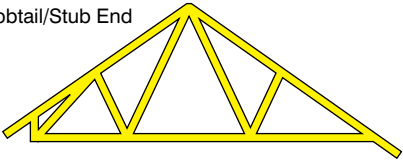
Modified Scissor



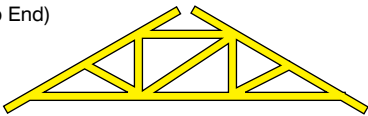
Double W



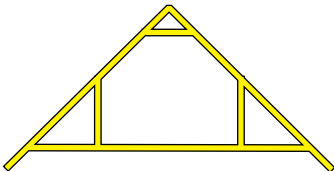
Bobtail/Stub End



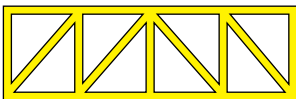
Flat Top  
(Hip End)



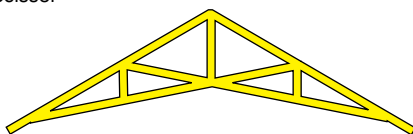
Attic



Parallel



Scissor



This is just a small selection of the profiles available, for more information or bespoke solutions please contact your nearest office.

**Room in the Roof**

**Attic Trusses**

Room in the roof trusses, or attic trusses, are an **ideal way to increase the habitable area of a house**, or improve storage area.



Attic trusses are manufactured in a similar way to standard trusses but due to the increased loadings, and the lack of full triangulation, normally have larger timber sections, which in turn increase the price. Even with this price increase taken into account, room in the roof trusses remain **one of the most economic ways to add space to a building**.

When considering using attic trusses, thought should be put into the positions of dormer windows and rooflights, along with staircases and any other openings. The details required for pricing an enquiry regarding attic trusses include span of truss, pitch, tile type and room width and height. Please note the room width required can dramatically alter the price.

Open web joists can also be incorporated to further increase the benefits of attic trusses – by utilising the **open web joist** large services such as **soil pipes and air conditioning systems are easily routed through the floor**.

For more information, or to discuss any questions, please contact our team.



## Posi-Joist™

You simply can't afford to ignore the advantages of the Posi-Joist™ system designed and fabricated by DWB.

Because Posi-Joist™ combines the lightness of timber with the strength of the Posi-Strut™ steel web, you can **span far greater distances** than would be possible with alternative timber products.

This gives you unequalled **design freedom** across a wide range of applications for both floor and roof in **domestic, industrial and commercial applications**.

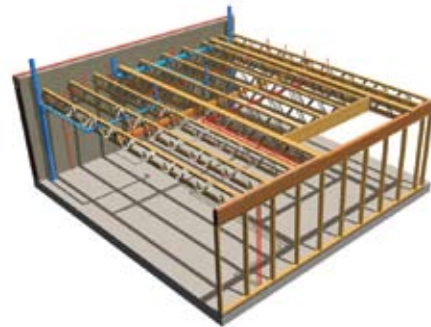
The Posi-Joist™ allows a **variety of internal room layouts** within an external shell due to its clear spanning capabilities.

Exceptional floor performance from a minimum 72mm wide fixing surface **makes flooring easy, controls shrinkage**, and with precision engineering it all **reduces** those tiresome **return visits and remedial work**.



More benefits such as the unique open web design provide an area in which **Plumbers and Electricians will find it easy and convenient to work**. The job's done far more quickly and the contractor makes **worthwhile savings**.

Even on long spans, **no herring-bone strutting is necessary** with the Posi-Joist system. If the span exceeds 4m, a strong-back is installed at mid-span.



The Posi-Joist™ does not just joist floors - it can adequately **span flat and pitched roofs**. Its span capability and timber flanges make it the more desirable alternative to all steel systems.

Posi-Joist™ standard details are published along with the DWB/Mitek World Of Floor Technology, available to download at [www.dwbgroup.co.uk](http://www.dwbgroup.co.uk)

Posi-Joist™ is the only open web joist system suitable for use with the Screedflo Acoustic Flooring System. This results in a floor which **performs like a solid concrete floor in a lightweight structure**.

Please see the download section on our website for further detail on Screedflo systems.



Open web joists can also be incorporated to further increase



All our Joists can be supplied with  
Manthorpe Joist Seals

## Glulam Timber & Feature Trusses

DWB has teamed up with a Danish Glulam manufacture to enable our customers to enjoy the benefits of high quality Glulam.

Glulam is **one of the strongest structural materials** per unit weight. Put simply, it is laminates of select graded timber glued together to give extreme strength. Because of the production process, Glulam can be **supplied in very long lengths, as curved beams, varying depths, 'A' frames, columns, posts or feature trusses**. Even this is a small selection of what can be achieved using Glulam.

Glulam also has **superior fire resistance** when compared to steel or reinforced concrete and will not corrode, making it particularly suitable for use over swimming pools. Glulam can be used as **support beams, roof structures, bridges, portal frames and many other designs**.

### Feature Trusses

We can also supply a wide range of Feature Trusses fabricated in Glulam, Oak, Pine and other soft and hard woods. Please contact our team of estimators for further details on your project.



## Timber Frames

### Timber Frames

Timber frame is a time honoured, proven construction method. Modular construction ensures **accelerated build schedules while Off-site construction methods guarantee quality and dimensional accuracy**. The benefits of Timber Frame are numerous but include exceptional thermal insulation (U-values) frequently not achievable using other methods, affordability and speed. Significantly in a modern world, **Timber Frame is the environmentally responsible choice**.

Together, we are **happy to accommodate your needs** ranging from the supply only of a timber superstructure to the **design, manufacture and construction** of a complete project including insulation, joinery and external finishes. Timber Frame panels are produced using CLS timber with OSB sheathing.

With timber frame systems, **site speed is improved**. Within days a weather tight building can be ready and produced at an all round cost that is lower than that of conventional methods. Timber Frame is lighter per cubic metre than most other forms of construction. This is significant when the COSHH and CONDAM regulations are considered, where parts of these relate directly to the distribution of materials and plant around the site. These regulations are placing new demands on the building team, to ensure that materials and products are safe to be handled during construction and by the building user.

For more information on  
Timber Frame Systems please contact us.



## Environmental Policy

### Environmental Policy

DWB are able to supply roof trusses, posi-joist and timber frame panels with timber certified with PEFC Chain Of Custody. PEFC certification is a transparent system of forest inspection and a means of tracking timber from harvested tree through to the finished product.

PEFC is your assurance that timber products come from forests that are sustainably managed. The following principles are part of PEFC certified forestry:

- No more wood is harvested than is regrown.
- Trees are replanted or naturally regenerated after harvesting.
- Workers' rights and welfare are protected.
- Local employment is encouraged.
- Indigenous peoples' and owners' rights, i.e. those who earn their livelihoods from and/or live in the forest, are respected.
- Forests are maintained as habitats for wild animals and plants.
- Functions of forests for the protection of water, soil and climate are protected.
- Biodiversity of forest ecosystems is conserved.
- The origin of the wood raw material is verified.

By buying products with the PEFC label you:

- Demonstrate your support for the sustainable management of forests around the world.
- Help to protect forests for present and future generations.
- Help to promote the responsible sourcing of timber.
- Help to combat illegal logging.
- PEFC certified forests are regularly inspected by independent auditors.

### Quality Assurance

DWB also supply trussed rafters Quality Assured to ISO 9001. These are certified by BM TRADA. Frequent checks are carried out by internal and external auditors to ensure the accuracy and quality of our products. Copies of our certificates are available via our download section at [www.dwbgroup.co.uk](http://www.dwbgroup.co.uk)

## Useful Publications

### Useful Publications

A range of assisting publications are also available. Please don't hesitate to contact us to obtain copies.



