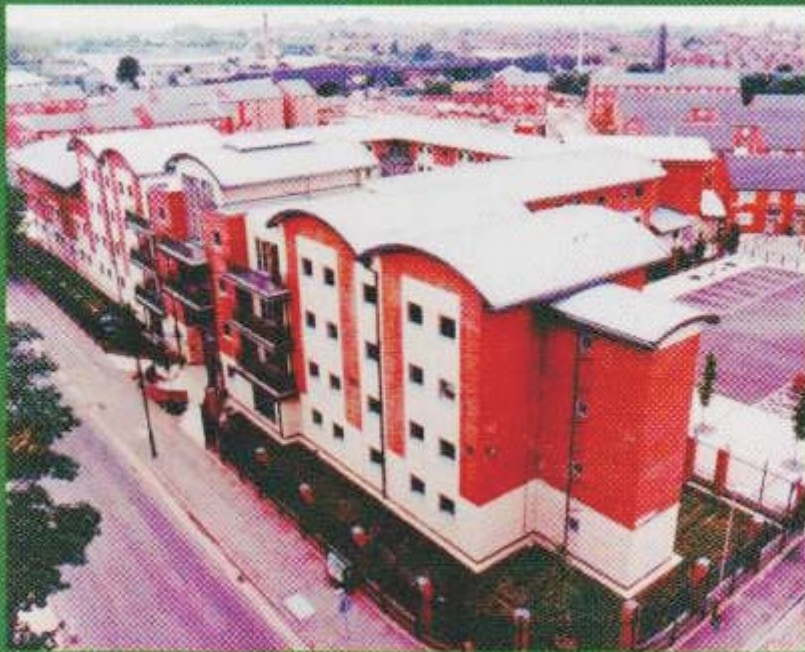


TRUSSED RAFTER ASSOCIATION



A conventional dwelling



Curved roof at De Montford University



Penrhos Stanley Community Hospital, North Wales

All illustrations in this leaflet show roofs constructed from trussed rafters designed and manufactured by Trussed Rafter Association Members



Several good reasons to pick a TRA Member

QUALITY & RELIABILITY

All manufacturing Members are registered to an independent, third-party supervised, Quality Assurance scheme.

INSURANCE

All manufacturing Members carry Professional Indemnity insurance of £1M sum insured or greater.

STANDARDS

TRA makes an on-going commitment to participate in the drafting of all relevant UK and European Codes and Standards thus ensuring that Members are always ahead of the latest design and production requirements.

AUTHORITIES

Similarly, TRA is involved in all the major regulation making forums such as NHBC, HSE etc.

INDUSTRY

Participation in the decision making forums of trade organisations means that TRA Members are fully up-dated on the changes in material supplies etc.

REGIONS

TRA is organised into regions to ensure that information is disseminated throughout the Membership in the fastest possible way and that local issues can be dealt with properly.

TECHNICAL

TRA maintains a multi-disciplined technical group who participate in and consider all technical matters relevant to the Membership. Typical of their activity is the publication of a Technical Handbook covering all aspects of trussed rafter roof design and construction.

MEMBERSHIP LIST

A fully up-dated list of Members is available to users and specifiers.

TRAINING

TRA provides periodic training and re-training sessions for its Members to keep them right up to date.

DESIGNS

TRA Members are able to offer a complete feasibility and final supply and design service for simple and complex roof designs.

PEACE OF MIND!

Trussed Rafter Association

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Website: www.tra.org.uk



Curved trussed rafter roof at Reading University



Conversion from flat roofs over social housing in London Borough of Hackney



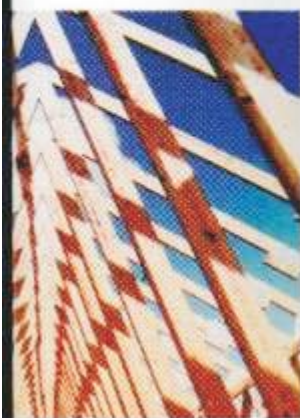
Wing Yip Chinese Centre in Birmingham

...vement of HRH, the Prince of
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Trussed rafters?

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complex design and superior fabrication underpinned by high production standards.

Compared with other methods of roof construction, trussed rafters represent the most cost effective and flexible design option available.

Some developments in trussed rafter construction

'Room in the Roof' (RiR) trusses

With the ever increasing demand to optimise building land, more and more builders are looking to trussed rafters to provide the solution for additional living areas within the roof space.



A significant proportion of all trussed rafters now produced are RiR trusses which offer up to 65% more living space using a method of construction that has been in common use within the construction industry for some 40 years or so. No outdated or untried methods of construction are needed.

Ground level erection

With site safety and speed of erection in mind some TRA Member companies have, in conjunction with developers, pioneered ground level erection techniques for complete roofs.



An inexpensive jig on the ground ensures the complete roof carcass is assembled accurately and then lifted by crane into position.

Benefits of trussed rafters

- A fully engineered solution for a wide range of roof structures.
- Greater energy efficiency of building materials – using up to 40% less than traditional construction methods.
- Thermal efficiency and higher insulation values than some materials, eg. aluminium, steel and concrete.
- Speed of construction allows just-in-time delivery to site.
- Space saving, with no storage area required on site.
- Widespread usage of prefabricated components reducing labour costs.
- Timber's unique environmental edge as the only truly renewable building resource available today.
- Low technology manufacturing process with reduced levels of emissions and pollution.
- Minimal environmental impact from installation.

The Trussed Rafter Association

The Trussed Rafter Association is the respected voice of the UK trussed rafter industry. TRA is committed to raising standards in the industry, with all Members having to meet TRA's mandatory requirements for third-party supervised Quality Assurance and Professional Indemnity insurance helping to ensure quality in the design and manufacture of trussed rafters.

The Association participates in regular manufacturing and timber industry forums, providing Members with current news on industry developments and key policies. Regional group meetings across the country ensure the distribution of information direct to Members.

TRA forges links with the public and private sectors to promote the industry's interests and liaises with research and regulatory bodies on product specification, health and safety and environmental issues.

The TRA is also fully represented on all relevant UK and European Standards Committees as well as working closely with building authorities, thus ensuring complementary policies and guidelines are adopted within the industry.



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TRA objectives

- Encourage architects and specifiers to choose trussed rafters as the preferred building material.
- Influence building engineers to use trussed rafters extensively.
- Act as an authoritative source of reference on trussed rafters.
- Develop and implement common design standards ensuring safety is never compromised for commercial interests.
- Ensure relevant standards and codes reflect best practice.
- Develop the professional status of Members and their employees.
- Offer appropriate services to Members.

What are tr

Trussed rafters are components, manuf... strength graded timb... with steel nailplate f... provide a structural f... fabric, ceilings and... other features, such... attic roofs. Comb... components, they... trussed rafter roof... building types.



Trussed rafters are domestic housing... increasingly comm... industrial buildin... developments, ret... centres.

In today's highly com... rafters stand alone... highly engineered



Situated in a conservation area on the second highest point in Nottinghamshire, the conversion of a disused water tank into a private dwelling posed a real problem for one of TRA's Member companies.

Working closely with the project architect, the owners were able to create a sizeable living area with air conditioned bedrooms situated below.

The job architect commented that "trussed rafters were the only way to resolve the roof structure and avoid the use of steel - it was a work of art"