



How to use this Manual

This manual is provided to give information about the use of trussed rafters for roof construction and is intended to be of interest to Trussed Rafter Specifiers, Trussed Rafter Designers and Contractors using Trussed Rafters.

The manual is arranged in three sections:

SECTION 1	Information for specifiers
SECTION 2	Technical information
SECTION 3	Information for site use

Trussed rafters are now used for the overwhelming majority of domestic roofs constructed in the UK and Eire, and have an exceptional performance record since their introduction to the Building and Construction Industries.

A nationwide network of Authorised Trussed Rafter Fabricators can provide a competitive, economic solution to even the most complex of your roofing needs. Using the MiTek Engineering Design System, these companies provide high quality, purpose engineered units to satisfy the need of an ever more complex market.

We are confident that this document will demonstrate the advantages to you in selection and building successfully with trussed rafters.

SECTION 1

Information For Specifiers

- 1.1 What is a trussed rafter?
- 1.2 Design responsibilities
- 1.3 Exchange of information
- 1.4 Limits of use for trussed rafters
- 1.5 Basic Design principles
- 1.6 Guide to setting out and dimensioning
- 1.7 Practical roof solutions
- 1.8 Glossary of terms used

SECTION 2

Technical Information

- 2.1 Codes and standards
- 2.2 Timber
- 2.3 Connector plates
- 2.4 Design method
- 2.5 Roof and trussed rafter bracing
- 2.6 Loading and load cases
- 2.7 Selecting trussed rafter profiles
- 2.8 Framing common roof shapes
- 2.9 Connection details
- 2.10 Problems to be aware of

SECTION 3

Information for Site Use

- 3.1 Do's and Dont's on site
- 3.2 Supporting water tanks
- 3.3 Hatch and chimney openings
- 3.4 Two-Tier construction
- 3.5 Hip ends and corners
- 3.6 Valley intersections
- 3.7 Bracing trussed rafters and roofs
- 3.8 Loose timber connection details
- 3.9 Bearing details
- 3.10 Ventilation and condensation
- 3.11 Site storage and handling
- 3.12 Erection procedures
- 3.13 Risk assessments & method statements
- 3.14 Construction check list
- 3.15 Nailing and bolting
- 3.16 Attic Frames-2 & 3 part construction
- 3.17 Attic Frames-bracing
- 3.18 Attic Frames-environment
- 3.19 General construction details
- 3.20 Builders metalwork