

Trusses and Frames

HANDLING, ASSEMBLY & INSTALLATION

If in doubt, phone **01282 771618**

Weight

The weight of a typical truss depends on the sizes of the timbers and usually varies between half a tonne and a tonne.

Please refer to the [HSE Short Guide to Manual Handling](#) which gives guidelines for manual handling operations. See www.hse.gov.uk

Ventilation

Covering the beams in a way that does not allow ventilation will result in mould growth as the beams give off moisture and condensation will ensue.

Colouration and Staining

If left in the sun and rain with no cover, in time, the beams will go grey.
Should iron or steel come into contact with wet oak ("green", rain or dew) a blue black stain will result. This is best avoided.
During the construction process tannic acid can be leached from the oak by rainwater. Resulting "run-off" will stain any surfaces (brickwork, stone etc.) dark brown. This will disappear over time (a year or so).
Oxalic acid will remove the stain.

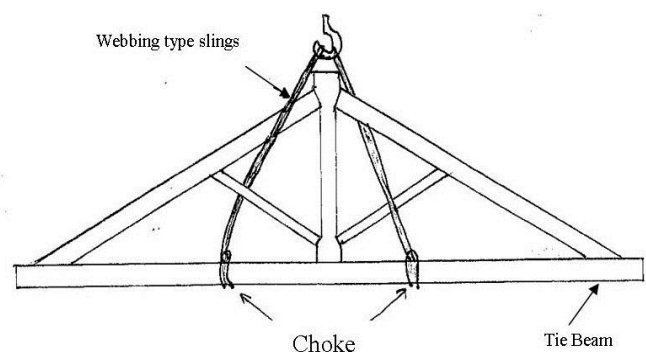
Assembling trusses

Generally trusses are delivered as a unit. Should a client wish to assemble trusses on site please note the following:

- A working drawing showing the carpenters marks should have been supplied.
- the parts will have carpenters marks on the face side of each component.
- There is only one correct way to assemble the frame.

Lifting trusses

Suggested lifting diagram



It is important to lift from the Tie Beam

Note 1: **These are finished products .**
Chains or contact with steel will stain the oak **BLUE/BLACK.**

Installation

The person responsible for the installation will need the working drawings used for the production of these materials.

Installation of purlins

Where purlins or ridges are installed in line there will need to be some type of joint where the ends meet. The simplest joint is a **halving joint**. **It is important that both sides of the halving have a bearing on the truss otherwise the joint may fail. See the diagram below.**

The joint details should be specified by the architect / engineer.

Notching beams at the bearing points

