

How to safely install

Roof Trusses

A step-by-step guide to the safe installation of your roof trusses



***Designed with precision,
built with passion***



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Before you begin...

Stay safe

Installing trussed rafters requires specific construction skills which involve working at height and handling dynamically unstable materials.

A full site-specific risk assessment must be undertaken before any work commences.

The installation of trussed rafters should only be undertaken by suitably experienced and qualified personnel, such as those with a Level 2 Diploma in Site Carpentry.

All images in this guide are for illustrative purposes only. The recommendations given are supplied in good faith but without liability. Their use shall be entirely at the risk of the user.

Ensure you...

- Check and read all assembly drawings and information provided by your Pasquill Designer.
- Ensure all personal protective equipment (PPE) is worn and correctly fitted.
- Ensure scaffolding is in place and signed off.
- A safe working platform within the structure is strongly recommended.
- Ensure hop-ups and scaffolding edge protection are in place.
- After reading the truss layout drawings, identify the easiest starting point using the simplest roof of trusses.

View our Safe Unloading documents on our website, pasquill.co.uk/documents/

Images supplied by Paramount Safety Solutions, Banbury



Preparing the working area

Follow the steps below to prepare the working area for receiving your roof trusses.

01

Step 1



Erect table lifts at both gable ends. Ensure the scaffold is constructed in accordance with the design drawing based on the engineers' calculations to safely support the anticipated loads for this site. For further information on truss weights and sizes, please contact your local Pasquill Design Centre.

Step 2



Fix C16 structural grade timber (100mm x 50mm) to standards.

Step 3



Use transom clips to secure the timber.

Step 4



Mark out the wall plate to show the truss location.

Bracing the truss pack

02

Once your working area is prepared and safe, you're ready to crane in and brace the truss pack.

Step 1



Crane lift the truss pack onto the wall plate.

Step 2



Screw fix a C16 structural grade timber (150mm x 50mm) length to the face of the truss pack.

Step 3



Nail fix two timber braces from the horizontal timber on the table lift to the timber length screwed to the truss face.

Use two nails per brace as shown.

Step 4



Individually nail fix the trusses within the truss pack using a short length of bracing. This will allow the trusses to be released individually when required.

Stagger the nail fixings as shown. This will prevent the brace from splitting.

Releasing the trusses

03

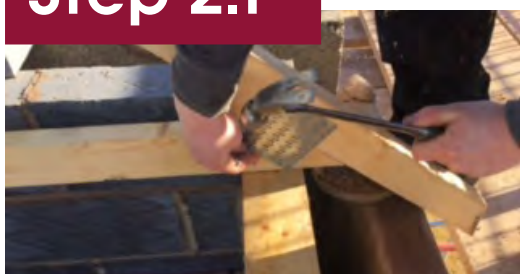
The trusses have been lifted and braced. Now you can release them for installation.

Step 1



Cut the banding and release the first truss. Carry the truss to the opposite end of the roof.

Step 2.1



Method 1

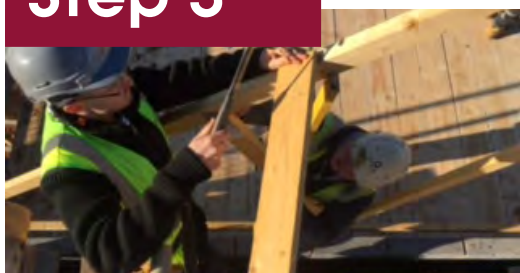
Align the truss to the marks you have made on the wall plate. You can nail fix the truss into position using either method one (opposite) or method two (below left).

Step 2.2



Method 2 - Fix truss to wall plate using truss clip

Step 3

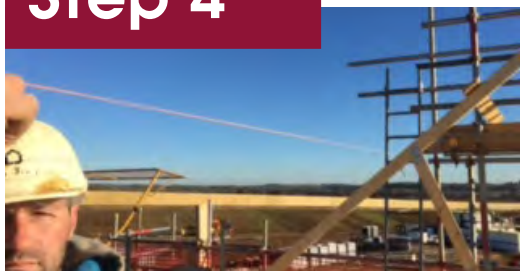


Level and nail fix both sides of the truss with a brace fixed to the structural timber on the adjacent table lift.

Releasing the trusses

03

Step 4



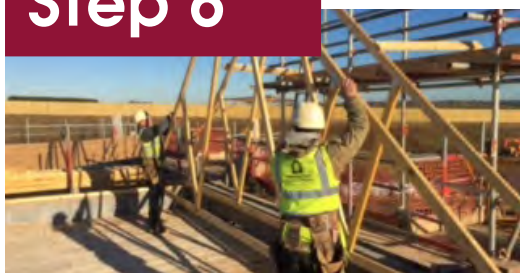
String a line between the single trusses and the truss pack.

Step 5



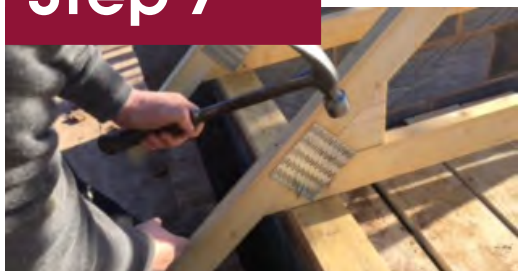
Release the second truss from the bracing and transfer to the opposite end of the roof.

Step 6



Place the second truss and align with the string line.

Step 7



Align the truss with the marks on the wall plate and nail fix into position using either method one or two shown on page five of this guide.

Nail fix a timber brace to secure the second truss in place.

Releasing the trusses

03

Step 8



The third and fourth trusses are installed by repeating the previous steps.

When the third and fourth trusses are in position, nail fix a diagonal brace to the trusses on each side of the roof.

Step 9.1



Continue to spread the trusses and fix by repeating the process until the roof is fully spread.

Step 9.2



Step 9.3



Finishing installation

04

Follow these final steps to ensure the trusses are braced correctly and safely.

Step 1



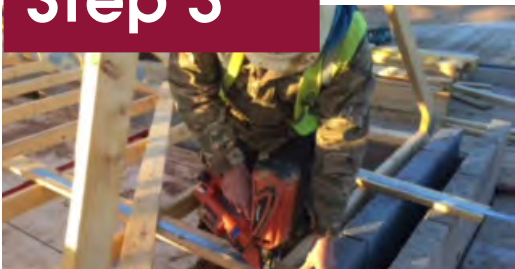
Fix lower bracing as per the roof detail.

Step 2



To allow high-level bracing to be fixed without injury, install safe and secure temporary access,

Step 3



Fix all high-level bracing as per the roof detail. Fix restraint straps where necessary.

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