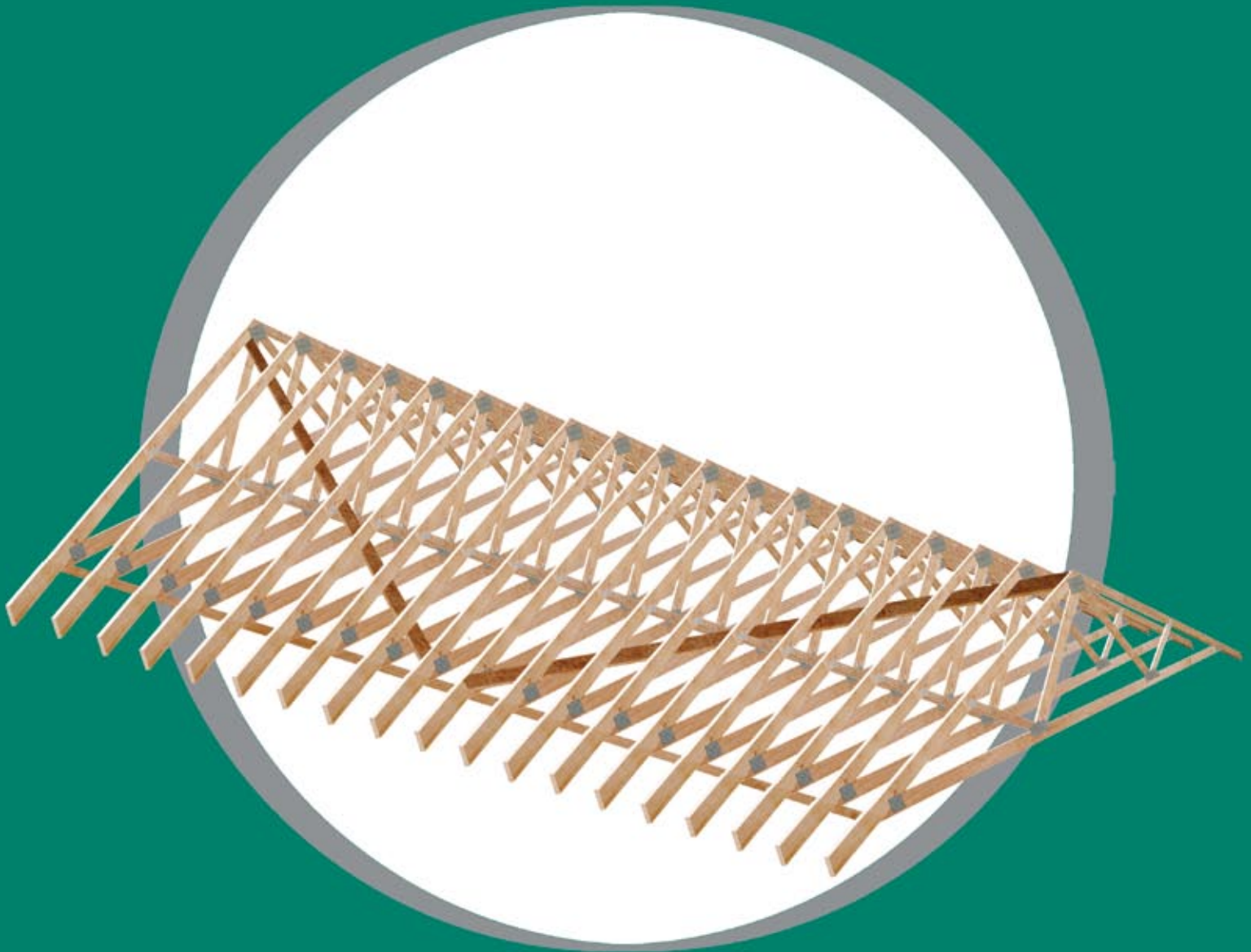


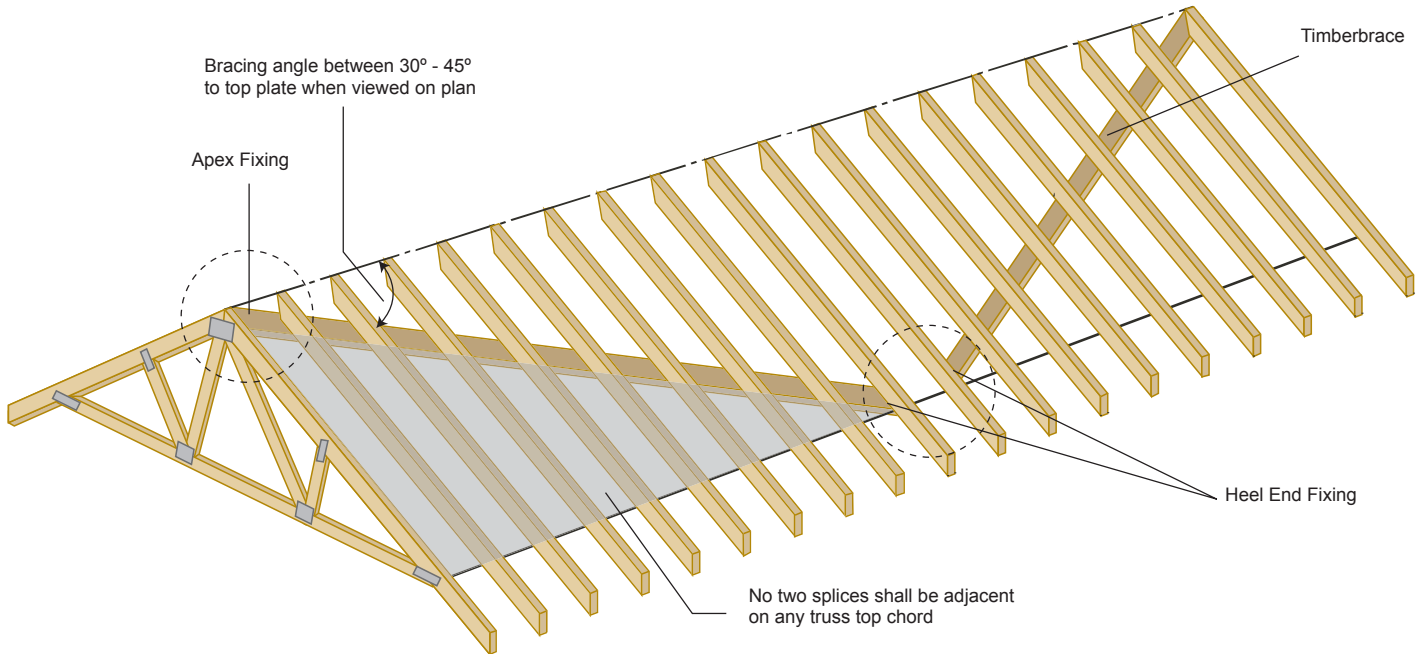
Timberbracing

Installation Specification

for use with Multinail Timber Trusses



INTRODUCTION



Top chord bracing may be affected by using (minimum) 75 x 38mm (F8) hardwood or 70 x 35mm (F5) softwood.

These braces are fixed to the under side of the top chord of each truss with a minimum of 2 x 75mm nails or 2/Triple Grips (where nailing is impractical).

Viewed on plan, the brace must lie at 30° to the top plate and should run continuously from near the apex of the roof to the wall top plate. (Refer above diagram).

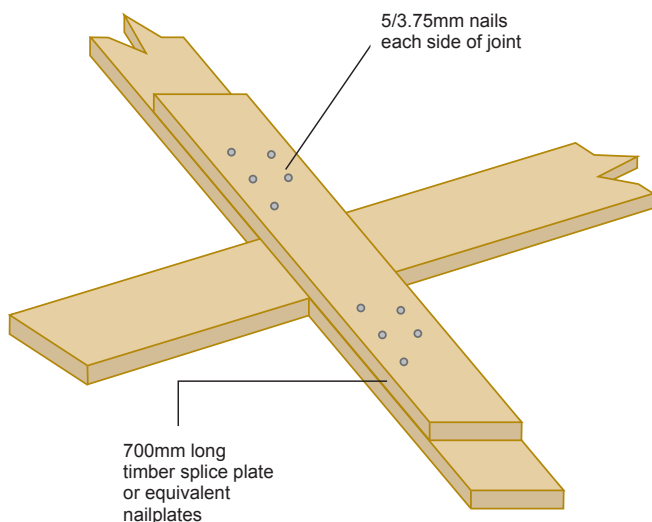
Safety Note:

Timberbrace must be securely fixed to the wall top plate or the bracing will be ineffective (See Heel Detail).

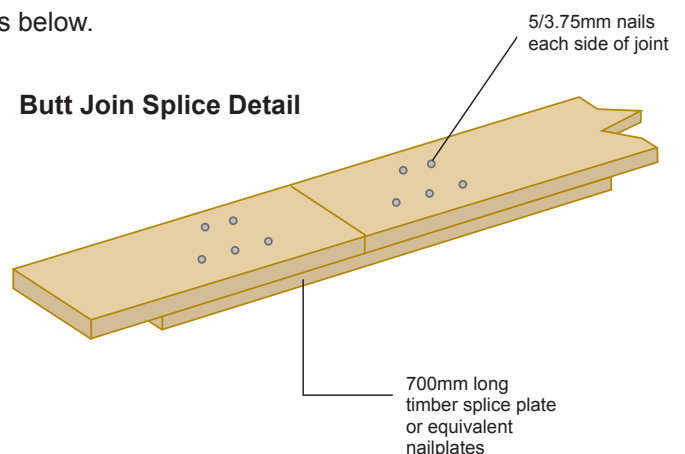
SPLICING TIMBERBRACE

The method of splicing Timberbrace is shown in the diagrams below.

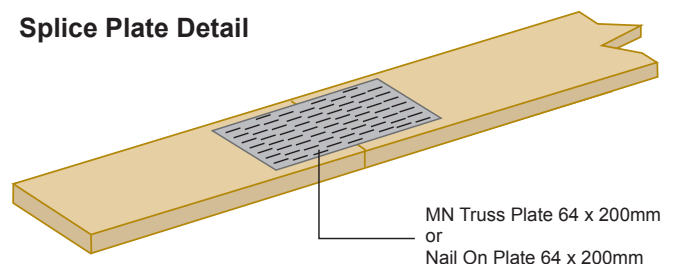
Cross Over Splice Detail



Butt Join Splice Detail



Splice Plate Detail

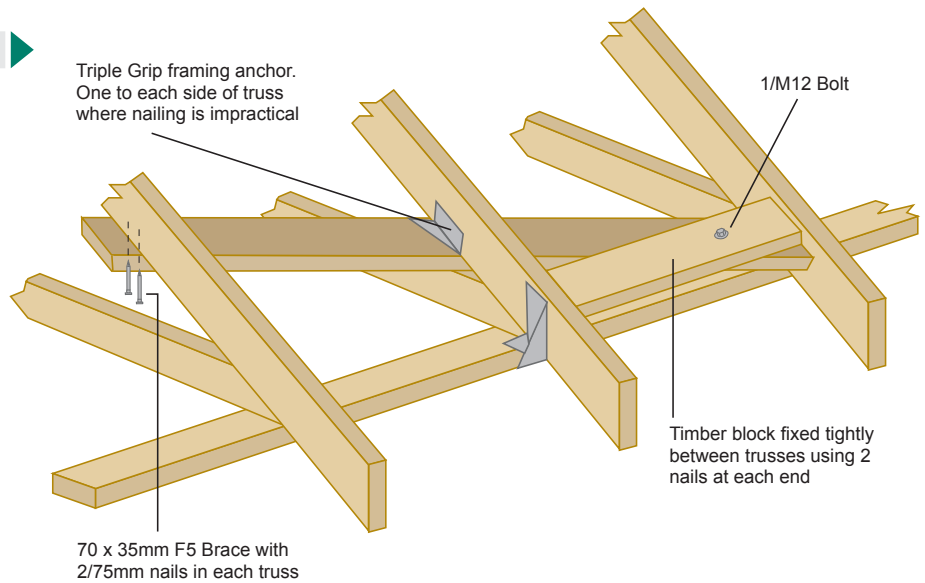


HEEL END FIXING

To transfer bracing loads to the wall top plate, the brace must be bent up so that it sits on top of the top plate and butts up to the next truss in the region of the heel plate.

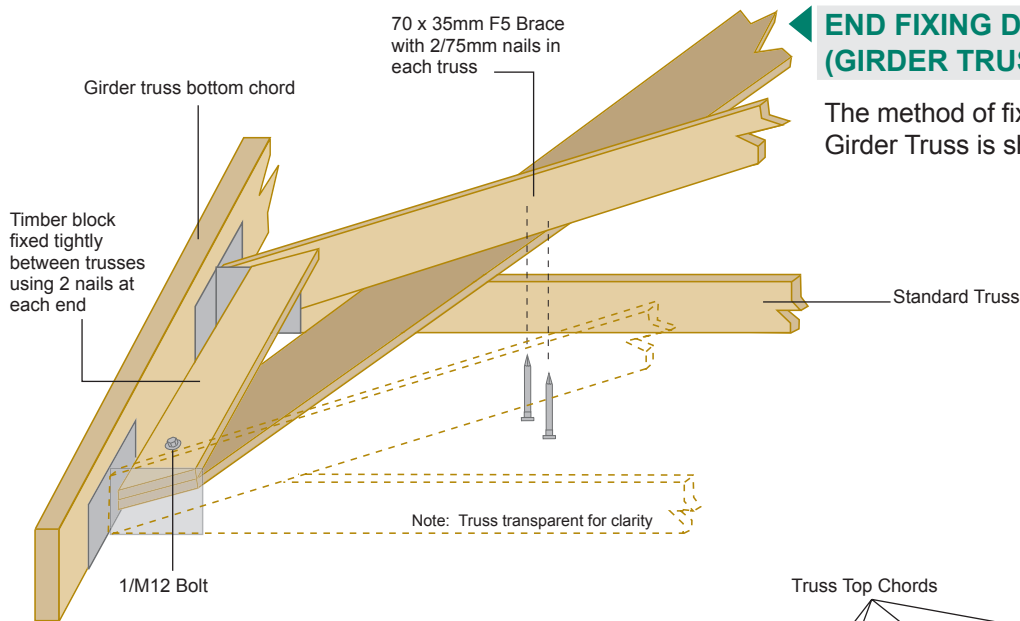
The two trusses on either side of the end of the bracing must be fixed to the wall top plate with 2/Triple Grips.

A short strut, 90 x 35mm (F5), is then fitted tightly between the two trusses and bolted to the brace with one M12 bolt. This strut is also fixed to each of the two trusses as shown.



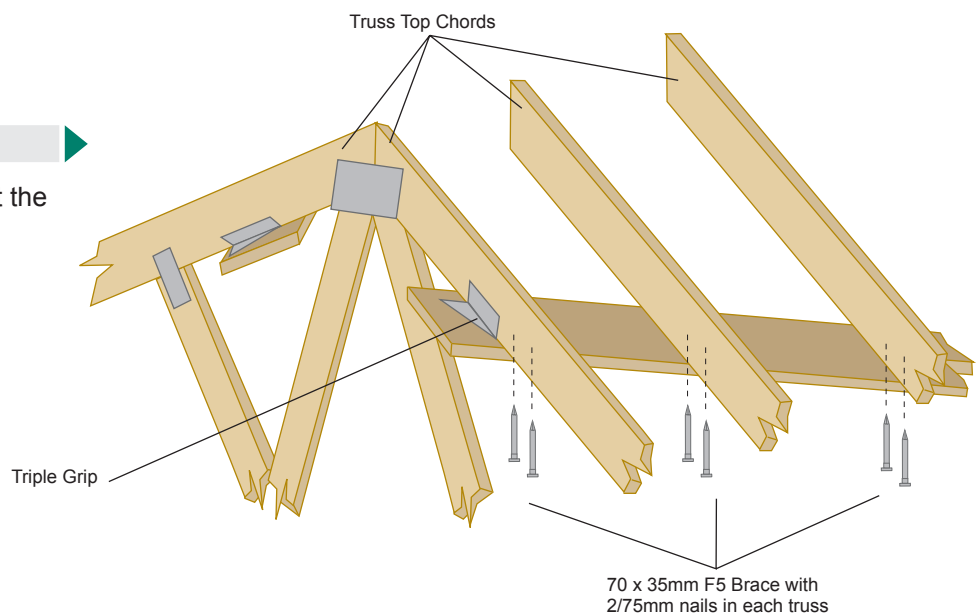
END FIXING DETAILS AT HEEL (GIRDER TRUSS)

The method of fixing Timberbrace at the Heel of a Girder Truss is shown.



APEX FIXING

The method of fixing Timberbrace at the Apex is shown in the diagram.



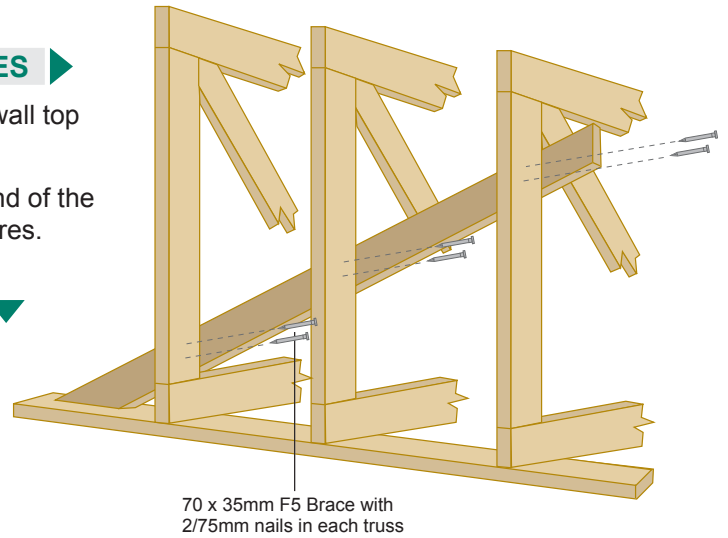
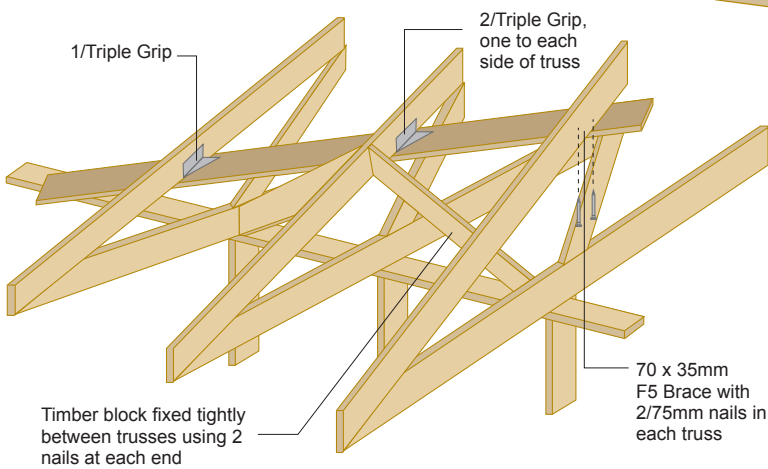
TIMBERBRACING FOR CUT-OFF & HALF TRUSSES

Diagonal bracing transfers top chord bracing loads to the wall top plate.

One bay of diagonal bracing should be installed at each end of the run of trusses and intermediate bays at intervals of 10 metres.

TIMBERBRACING FOR CANTILEVER TRUSSES

Transfer of top chord bracing loads required the use of diagonal bracing as shown in the diagram below.



TIMBERBRACING FOR WEB TIES

Some truss designs require longitudinal ties to be applied to webs. These ties should be sized, fixed and spliced as for chord braces. They must also be braced back to the top and bottom chords in at least one position as shown in the diagram. Note that the brace must be angled so as to pick up each intersection of web and web tie.

End of Timberbracing to be fixed with 2/Triple Grips. One bay of diagonal bracing should be installed at each end of the run of trusses and intermediate bays at intervals of 10 metres.

ROOF BATTENS TO TRUSS TOP CHORDS

Batten size and fixing to be determined by the truss spacing roof sheeting material, timber type for batten, truss and wind loading.

Each batten must be fixed to each truss that it butts against. The following details are only provided as a guide.

