

Temporary safety bracing for floors

of the joist run.

2 Load bearing wall.

1 FloorTrus.

5 Top chord restraint noggins.

е глоидраск.





For further notes refer to page 32 - 33 of the Alpine Open Web Joist Manual (available at www.itw-industry.com)

work shall be undertaken using mechanical lifting equipment.

In all cases except those involving the lightest of loads (see the current Manual Handling Regulations) all lifting strength and conform to all the requirements given for permanent storage noted above.

Where units are transferred to temporary storage/working platforms prior to fixing these shall be of sufficient standard hierarchy of risk control. At all times the Primary Health and Safety initiative of Prevention and Protection should be observed according to the

Manoeuvring joists and loose timber components prior to assembly

to allow the safe removal of units as they are required.

- Adequate props should be installed on both sides of vertically stored joists in order to ensure overall stability and passage of air around all components.
- that weatherproof protection is necessary this should be arranged so as to allow proper ventilation and the free • At all times consideration should be given to the moisture content of the timber products. Where it is considered Support besters should be of sufficient height to ensure that joists do not come into contact with the ground.
- spould be provided at approximately 1000 mm centres. positions where support has been assumed in the design. Where joists are stacked horizontally, a level support
- Joists should preferably be stored vertical (to minimise the risk of distortion) using suitable bearers located at
 - The proposed storage area should be level, well drained and free from vegetation.

consideration of the following matters:

Where it is necessary to store joists and associated timber components on site this should be undertaken with full The site storage of joists and loose timber components

components is suspected as a result of a breach of lifting procedures, this should be immediately reported to the At all times, joists and bundles of joists should be kept vertical when being moved. Where damage to again ensure that the method of lifting does not overstress or damage the joists.

In situations where components are unloaded using fork lifts or modified front loaders then the contractor should brevent buckling during lifting operations.

Mhere necessary, strongbacks or litting beams should be securely and properly attached to the components to

immediately be sought from the Joist Designer. Where uncertainty is encountered as to the correct method of supporting and lifting components, advice should

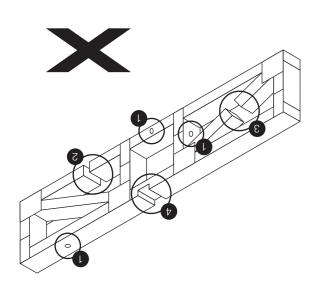
occasions; the most preferred option being to unload and transfer units directly to the final level of use for immediate

As a general principle, joists and associated components should be lifted and moved on a minimum number of

safely undertake the relevant work operations in accordance with both an Approved Method Statement and the Site At all times the contractor responsible should allocate sufficient resources in terms of equipment and personnel to

Unloading of joists and loose timber components

Installation notes



 $\mbox{\ensuremath{\mbox{$4$}}}$ Do not cut notches in any part of the joist 3 Do not cut through or remove the webs

2 Do not cut through the chords

1 Do not drill holes through any part of the joist

designer's drawings for the correct orientation, spacing etc.

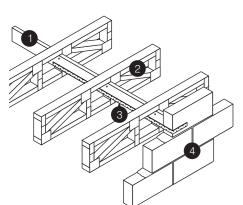
- · Install the joists as they have been designed: Refer to the joist
 - · Protect joists from inclement weather
 - $\bullet\,$ Use the open web feature for installation of services
 - · Store as described in the Installation notes

Do's and Don'ts on site



Horizontal restraint strap (A)

Horizontal restraint strap (B)



- 1 Strongback fixed at every joist against underside of top chord as shown using 2 no. 3.35mm dia x 75mm long galvanised round wire nails (refer the table on page 12 for strongback size) 2 FloorTrus
- Restraint strap (fixing to be determined by
- building designer) 4 Masonry wall

1 FloorTrus

2 Timber brace twice

3.35 x 75mm long

face of the wall

building designer)

Masonry wall

galvanised round wire

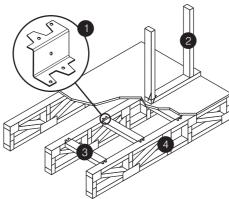
(min) and tight to the

Restraint strap(fixing to

nails, fixed over 3 joists

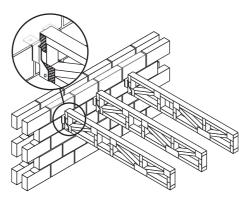
nailed to each joist using

Non load-bearing partitions parallel to joists



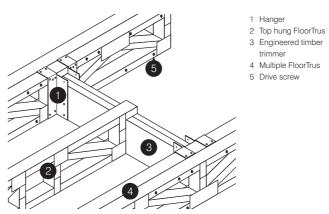
- 1 Z-clip
- 2 Non load bearing
- partition 3 Timber noggin
- 4 FloorTrus

Joists on masonry hangers

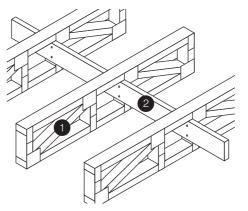


- 1 Masonry hanger all masonry must be fully cured and a min. of 3 block course (675mm) must be constructed above the hanger before
- 2 Outer wall
- 3 Masonry load bearing
- 4 FloorTrus

Stair opening (engineered timber trimmer)



Strongback detail (fixed to vertical webs)

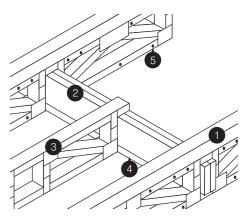


1 FloorTrus

trimmer

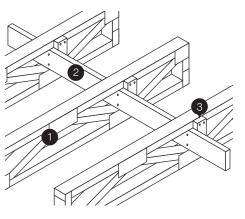
2 Strongback fixed at every joist against underside of top chord as shown using 2 no. 3.35mm dia x 75mm long galvanised round wire nails (refer to the table for strongback

Narrow opening (pocket beam)



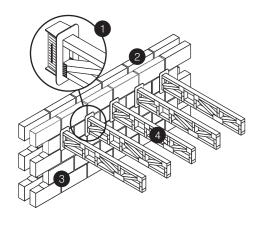
- 1 Multiple FloorTrus
 - 2 Engineered timber trimmer (depth to suit)
 - 3 Top hung FloorTrus
- 4 Packing piece for fixing
- 5 Drive screw

Strongback detail (fixed to timber nailer blocks)



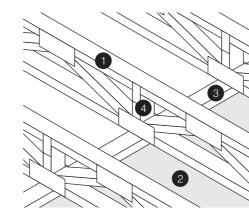
- 1 FloorTrus
- 2 Strongback fixed at every joist against underside of top chord as shown using 2 no. 3.35mm dia x 75mm long galvanised round wire nails(refer the for strongback size)
- 35 x 97 Nailer block fixed to top and bottom chord using 2 no. 3.35mm dia. x 75mm long galvanised round wire nails

Joists built into masonry in plastic seals



- 1 Plastic joist seal to prevent air leakage (refer to manufacturers
- specification) 2 Outer wall
- 3 Masonry load bearing
- 4 FloorTrus

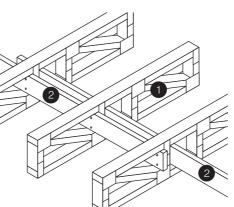
Internal bearing



- 1 FloorTrus 2 Internal load bearing wall
- Wallplate
- 4 Single or double vertical web positioned centrally over the wallplate

NOTE: BLOCKING IS REQUIRED BETWEEN JOISTS UNLESS WALLS ARE BUILT UP BETWEEN

Strongback joint detail (fixed to vertical webs)



- 1 FloorTrus
- 2 Strongback fixed at every joist against underside of top chord as shown using 2 no. 3.35mm dia x 75mm long galvanised round wire nails (refer the table for strongback size)

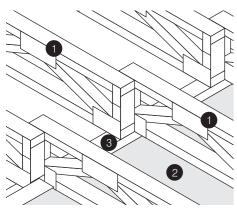
Strongback tables

Span (m)	Strongback spacing
< 4	None
4 - 8	1 at centre of span
> 8	2 at equal spacing

< 250 35 x 72 TR26 or 44 x 72 C16	Depth (mm)
	< 250
250 - 300 35 x 97 TR26 or 44 x 97 C16	250 - 300
> 300 35 x 147 TR26 or 44 x 147 C16	> 300

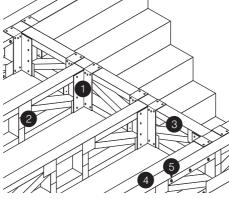
These tables are to be read in conjunction with all strongback details

Shared internal bearing



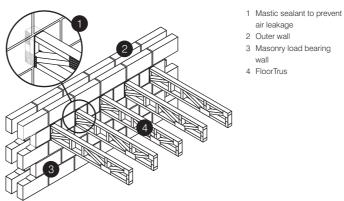
- 1 FloorTrus
- 2 Internal load bearing wall 3 Wallplate

Stair opening



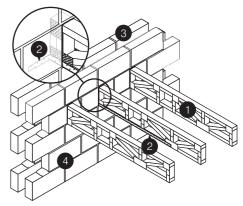
1 Hanger 2 FloorTrus 3 FloorTrus trimmer 4 Multiple FloorTrus 5 Drive screw

Joists built into masonry and sealed with mastic



- - air leakage 2 Outer wall
 - 3 Masonry load bearing
 - 4 FloorTrus

Parallel restraint strap



- 1 FloorTrus
- 2 Restraint strap (fixing to be determined by the building designer)
- 3 Outer wall
- 4 Masonry load bearing