

Posi-STRUT[™]

Installation

Part D Installation

This section is for the builder to use on-site. It may be photocopied and supplied with the Posi-STRUT trusses.

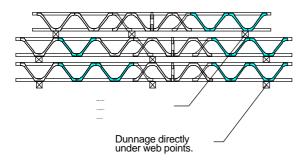
Handling & Storage

Posi-STRUT trusses should be strapped and stacked upright with the bottom chord clear off the ground and on level fillets or dunnage directly underneath web points. Trusses may be stacked on top of each other with fillets aligned as closely as possible to web panel points.

Posi-STRUT trusses should not be left exposed to weather for extended periods of time without adequate protection. If covered, adequate air circulation should be ensured around the trusses.

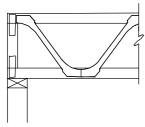
Care should be taken when handling the truss not to bend, collide, twist or drop. Handling should be confined to the timber chords, no weight should be applied to the metal webs which could cause buckling.

Any truss damaged in transport or handling cannot be repaired on site without the advice or approval of the manufacturer.

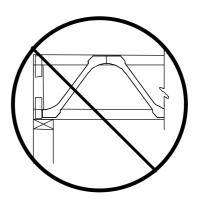


Installation Instructions

Posi-STRUT trusses must be installed the right way up, as shown. The manufacturer's instructions should be followed with regard to load bearing walls.



Correct Truss Placement



Upside down truss

Strongback Installation

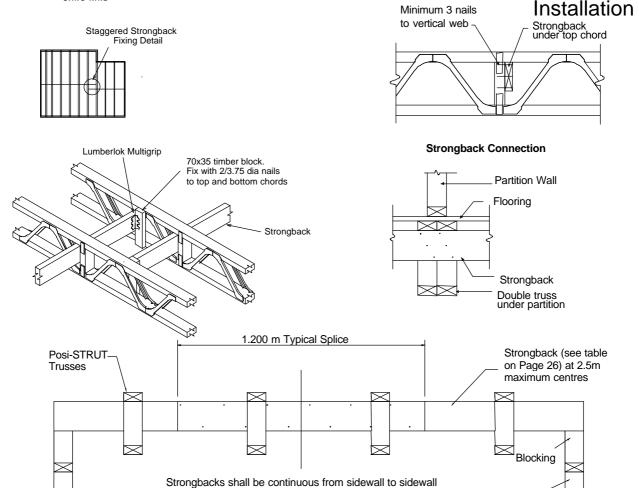
The proper installation of the strongbacks (for floor trusses) is important to minimise floor bounciness. The recommended size of strongback is:

Posi-STRUT web	Recommended Strongback Size
PS20	90 x 45
PS25	140 x 45
PS30	140 x 45
PS40	190 x 45

We recommend that strongbacks are clamped to the top chord and fixed to vertical webs with 3 x 3.75mm dia nails. At the end of buildings they should be braced back to top and bottom chords with diagonal strutting or with solid blocking.



Posi-STRUT™



Strongback Splice

if splicing is neccesary, use 1.2m long flitch centred over splice and joined with 12 - 3.75 mm diameter nails equally spaced.

Installing Strongbacks with Back Braces

The Back Brace allows quick and easy fixing of strongbacks to Posi-STRUT trusses without the need for timber vertical webs. The Back Brace also allows a degree of flexibility in the positioning of strongbacks as they do not need to be placed at truss panel points.

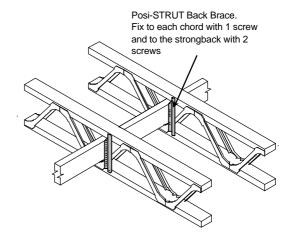
- Insert strongbacks through the trusses in accordance with the floor plan provided by Posi-STRUT truss designer. Ensure that the strongbacks are no greater than 2.5 metres spacing from supports or other strongbacks. Select where possible an opening in the truss which allows the strongback to rest on the bottom chord away from the Posi-STRUT web tooth cluster.
- Place the Back Brace in position so that the leg with multiple holes is against the strongback and the vertical position is such that the screw holes in the leg against the Posi-STRUT truss are close to the centres of the timber chords.

Fix bottom of Back Brace to bottom chord with 1 screw while maintaining strongback location.

Sidewall

 Fix Back Brace to strongback with 2 screws, selecting a pre-punched hole which is approximately 30mm from the top and bottom edges of the strongback. Fix Back Brace to the top chord with 1 screw through hole provided.

Note: Do not over tighten the screws





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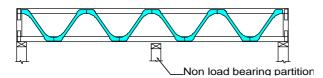
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Clearance Over Non-loadbearing Internal Walls

Posi-STRUT floor trusses on the upper storey of multi-storey dwellings should be kept clear of internal non-load bearing walls of the lower storey.

It is recommended that the floor trusses be connected to these internal partition walls in order to provide lateral stability to the wall below with fixings that will also allow the trusses to deflect under load.

Internal walls should be level to enable truss camber to provide clearance between the wall and truss



Do's & Don'ts

- 1. Trusses are not to be modified in any way on site without the approval of the manufacturer.
- Trusses are not to be subject to excessive construction loads eg no stacks of concrete tiles or particle board.
- 3. Remember to install the strongbacks before closing in the ends.

Rafter and Purlin Stability Bracing

The following details cover ancillary bracing for truss stability only, and not roof bracing for the total roof or building structure which will have to be separately detailed.

The top chord stability is provided by diagonal strip bracing fixed to both purlin and rafter trusses. The bottom chord is restrained by runners and fly braces at 1.75m centres maximum for 70 wide chords and 2.25m centres maximum for 90 wide chords.

