

Handling & Storage

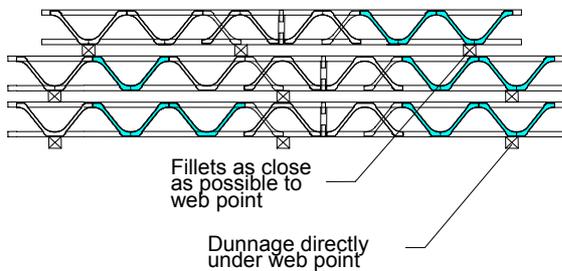
This section is for the builder to use on-site. It may be photocopied and supplied with the Posi-STRUT trusses.

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. Posi-STRUTs 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 Posi-STRUTs.

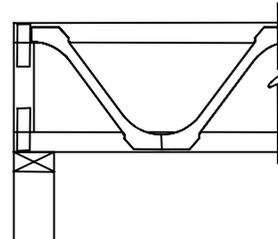
Care should be taken when handling the Posi-STRUT not to bend, collide, twist or drop. Handling should be confined to the timber chords, no weight should be applied to the metal webs which could cause buckling.

Any Posi-STRUT damaged in transport or handling cannot be repaired on site without the advice or approval of the manufacturer and MiTek New Zealand Ltd.

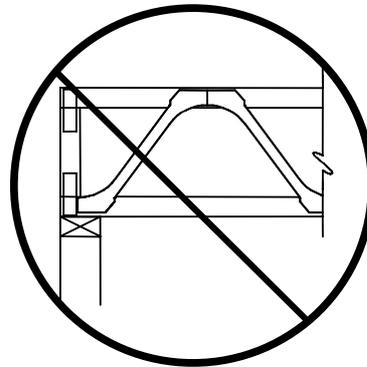


Installation Instructions

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



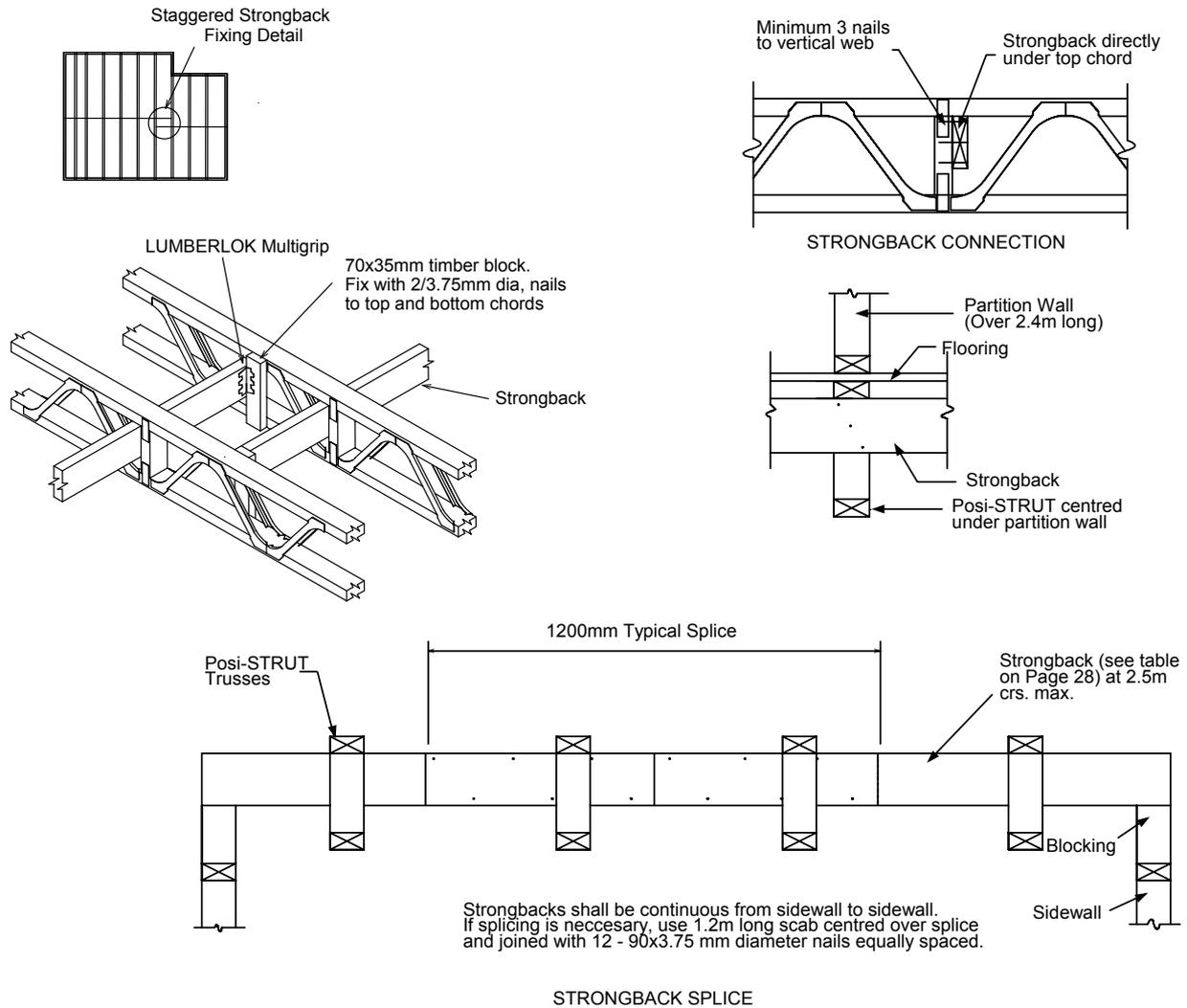
Incorrect Truss Placement
Truss upside down

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 | Recommended Strongback size |
|------------|-----------------------------|
| PS20 | 90x45 |
| PS25 | 140x45 |
| PS30 | 140x45 |
| PS40 | 190x45 |

We recommend that strongbacks are clamped to the top chord and fixed to vertical webs with 3/90x3.75mm dia. nails. At the end of buildings they should be braced back to top and bottom chords with diagonal strutting or with solid blocking.



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.

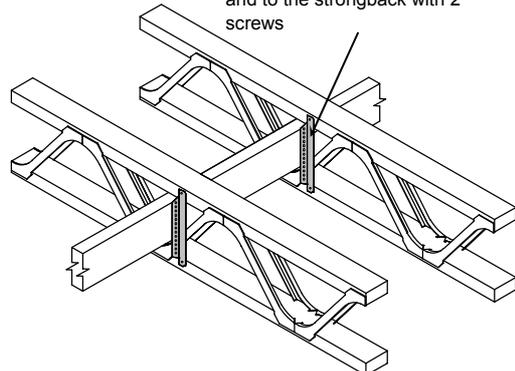
1. Insert strongbacks through the trusses in accordance with the floor plan provided by Posi-STRUT truss designer. Ensure that the strongbacks are no greater than 2.5 metres spacing from supports or other strongbacks. Select where possible an opening in the truss which allows the strongback to rest on the bottom chord away from the Posi-STRUT web tooth cluster.
2. 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.

3. 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.

Posi-STRUT Back Brace.
Fix to each chord with 1 screw
and to the strongback with 2
screws

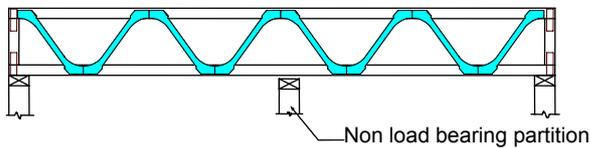


Clearance Over Non-Load Bearing Internal Walls

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 Posi-STRUT floor be connected to these internal partition walls in order to provide lateral stability to the wall below with fixings that will also allow the Posi-STRUT 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. Posi-STRUTs are not to be modified in any way on site without the approval of the manufacturer.
2. Posi-STRUTs are not to be subject to excessive construction loads e.g. 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 Posi-STRUT 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 purlins. The bottom chord needs to be restrained during wind uplift. Ceiling battens fixed to bottom chord will provide this restraint. Otherwise specific design will be required. Generally 90x45mm runners at alternate purlin spacing may be sufficient.

