



**STABIWOOD**

## StabiDeck Installation Instructions

### Notes on Thermal Expansion of Composite deck Boards.

Composites have Thermal Expansion and move with the ambient temperature. The expansion co-efficient formula is  $0.05 \times L \times \text{°}$ , so at 21 degrees a 4.8m length will be 5.04mm longer than at zero degrees. The clips system allows for this movement, but care must be taken when laying to ensure the boards are cut at the same temperature and move equally on their length. The Grip clips in the middle allow the boards to move equally in both directions. When setting the gaps, take a measure of the current temperature and set the gap according to the length of the board and the temperature. See the Gap Guide available to download on our website [www.stabiwood.co.nz](http://www.stabiwood.co.nz).

Fig 1

Fig 2

**Step 1.** Build subframe as required by council regulations and building code. Joists centres are to be no greater than 400mm apart.

**Step 2.** Using a string line to get a straight line, screw the Starter Clips on each joist against the house. Ensure the building code mandated gap is allowed for.

Fig 3

Fig 4

**Step 3.** Set the first board into the Starter Clips. Screw the T Clips into each joist making sure the deck board is tight against the Starter clips. Use a Grip Clip in the middle joist of each board.

Fig 5

**Step 4.** Don't fully tighten this row of clips just yet. Use a standard drill/driver on a mid clutch setting. Don't use an impact driver as it will drive the screw straight through the plastic clips.

Fig 6

**Step 5.** Repeat for next board. Now tighten up the previous row of screws.

Fig 7

**Step 6.** Trim the ends of the boards in situ using a plunge saw or saw against a straight edge. This will ensure all boards are the same temperature and the same length. Install the breaker boards using the T clips set into the groves on both the deck boards and the breaker board.

Fig 8

**Step 7.** Finish the deck with a facing board to cover the ends of the joists. Trim the groove off using a saw with a guide and sand the cut edge with 60 grit sandpaper. Surface fix this board using the 9g x 65mm cylinder head composite decking screw.

Once the deck is installed, hose down to get any dirt off. For the first few times it rains you will notice what looks like staining. This is just the dust coming out of the grain in the boards. You can either waterblast at a low pressure setting or leave for a few sun/rain cycles and it will come out naturally.

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