

Fusionwood Installation Guide

Fusionwood decking is designed to be installed with our fixing system. Please read this installation guide in full before proceeding to install your deck.

WARNINGS

The homeowner, contractor or installer is responsible for determining the specific requirements, effectiveness, suitability, and safety with regards to the application of Fusionwood decking.

Fusionwood decking must be fixed down to a substructure and is not designed to be used as a freestanding product. The substructure and installation of Fusionwood decking must be correctly installed ensuring compliance with regulations of the Building Code of Australia.

Fusionwood decking should not:

- Be used as a structural or load bearing member
- Be applied directly to a solid surface like concrete
- Have a cantilever greater than 30mm

Sufficient gaps between and underneath the boards are recommended to allow for thermal movement and ventilation.

Fusionwood decking will achieve its fully weathered colour after 3-6 months depending on local conditions. As the boards are made from reclaimed and recycled material, every care is taken to ensure consistency however natural variances will occur. These variances are also found on timber and Fusionwood boards are designed to blend in and even out over time. Dimensions are subject to normal manufacturing variations and tolerances. These variances in colour and dimensions are not considered a product fault.

It is natural for Fusionwood decking to expand and contract in length when changes in temperature occur. This occurs in wood plastic composite products and is not a product fault. This needs to

be taken into consideration during installation. Failure to do so will not warrant any claim.

SAFETY

Protective clothing and safety gear and equipment is recommended when cutting and drilling Fusionwood boards.

Care needs to be taken when storing and carrying Fusionwood boards.

STORE & CARRY THIS SIDE UP



CUTTING

When cutting Fusionwood boards, we recommend a 60-80 tooth blade for cutting (carbide tipped blades).

SUMMARY OF INSTALLATION SPECIFICATIONS (FIXING SYSTEM)

Centre-to-centre joist spacing (max)	450mm
Minimum ground clearance	95mm
Side to side gap	6mm (Pre-determined by clip)
Recommended butt join gap	1-4mm
Recommended gap to breaker board	1-3mm
Minimum end gap to solid structure	4mm
Minimum distance from all edges for fastening boards (for top fixing)	20mm

EXPANSION GAPS

It is important to take thermal expansion and contraction into consideration when gapping the boards. Fusionwood decking expands along the length and not the width of the board. During installation on a hot day (for your location) butt the boards together as the gaps will open up once the weather cools. Conversely, if installation occurs on a cool day (for your location), the recommended gap should be left to allow room for the boards to expand. For moderate temperatures, leave a gap somewhere in between to allow for expansion and contraction.

We recommend allowing the boards to acclimatise to site conditions for the boards to adapt to the heat of your location.

BREAKER BOARDS

Breaker boards can be used as an alternative to butt joints. This is recommended for decks that are longer than 5.4m. Use a breaker board to change the direction/design of your deck. If your deck has multiple mitre joints, use a breaker board. End gap of at least 1-3mm is recommended when using breaker boards.

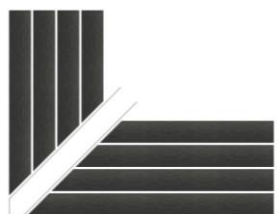
Example of breaker board design (recommended for decks longer than 5.4m):



Another recommended option is to change the direction of the boards at the corner of the house:



Multiple mitre joints with a breaker board (recommended):



BUTT JOINTS

Butt joints should be staggered and an additional joist support (blocking) to avoid splitting the joist or board. When using butt joints, the design and planning of your substructure needs to be carefully considered. Whether the butt joints are random, or brick staggered, before laying the boards the joists will need to be double blocked where the butt joints meet.

CLEANING AND MAINTENANCE

After installation of your Fusionwood deck, it is essential to clean the boards immediately after installation to remove surface debris and tannins.

Cleaning Method:

- Using hot water and dishwashing liquid, scrub the deck with a medium bristle brush
- Use a high-pressure hose to wash down the deck

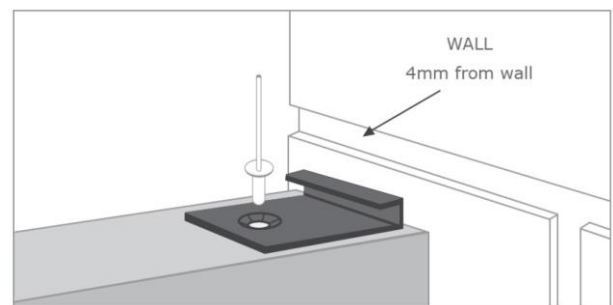
It is recommended to clean your Fusionwood deck depending on the amount of use and exposure to the elements. Any foreign substances should be removed immediately. A general clean at least annually is highly recommended.

INSTALLATION GUIDE – TIMBER JOIST

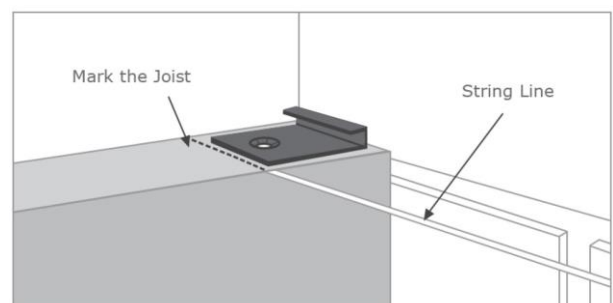
Fixings

- Standard Clip – Plastic
- Starter Clip – Stainless Steel
- Locking Clip – Black Stainless Steel
- Screws – Black 316 Stainless Steel (Timber joist)
- Driver Bit – T15 Head

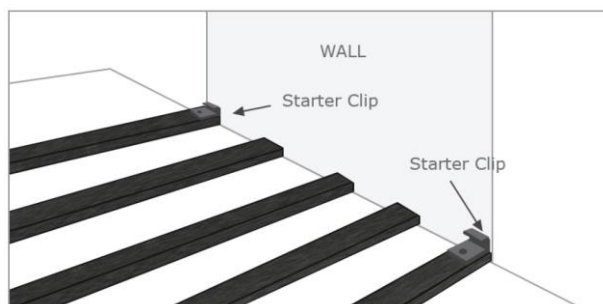
1. Place a starter clip on the first and last joist with a minimum of 4mm from the wall and screw into joist.



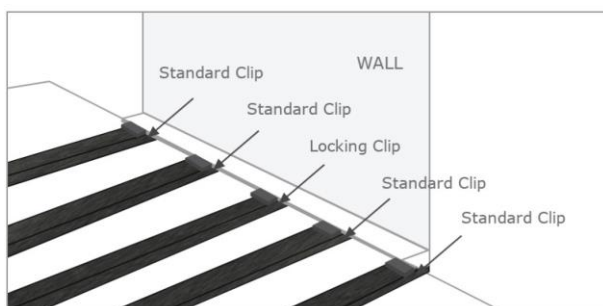
2. Measure and mark a line from the first starter clip to the last one and mark every third joist in between



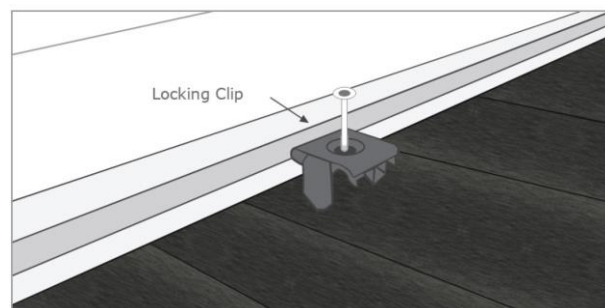
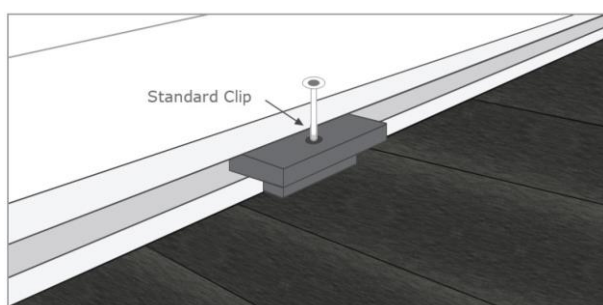
3. Place the starter clip on the marked joist as per the first and last joist in Step 1.



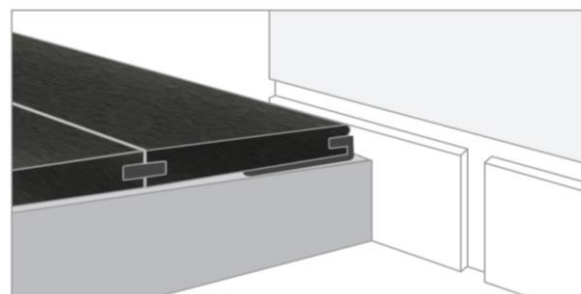
4. Lay the first Fusionwood board firmly onto the starter clip, if necessary, use a rubber mallet.
5. Insert standard and locking clip into grooved side of the board. Only one locking clip is required at the centre joist of each length of board (eg, if the board is 5.4m then only one locking clip is needed at 2.7m).



6. Partially screw down each clip so that the screw head is level with the surface of the board. Do not screw down all the way as the next board will not be able to slide in.



7. Slide the next board into position.



8. Repeat Steps 5,6 & 7 until approximately 5 boards have been laid.
9. Measure up these 5 boards to ensure that they are square.
10. Fully screw down these 5 boards area of the deck ensuring that the screws are about 1mm below the surface of the clip. However, still leave the edge of the last board semi pinned to ensure the next board can be laid.
11. Repeat step 5 to 10 (i.e. in 5 board allotments) until completed.

INSTALLATION GUIDE – STEEL JOIST

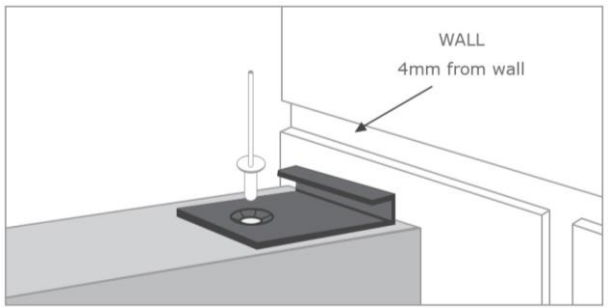
Fixings

- Standard Clip – Plastic
- Starter Clip – Stainless Steel
- Locking Clip – Black Stainless Steel
- Screws – Black 410 Stainless Steel (Steel joist)
- Driver Bit – T15 Head

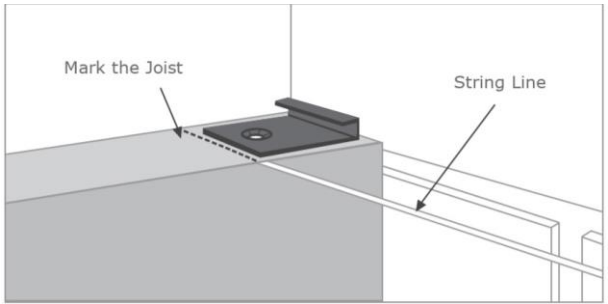
Please refer to the table below for recommended drill bit size depending on the thickness of the steel.

STEEL THICKNESS	DRILL BIT SIZE
1.5mm	3mm
1.5 – 2.4mm	3.5mm
2.4mm	3.75mm

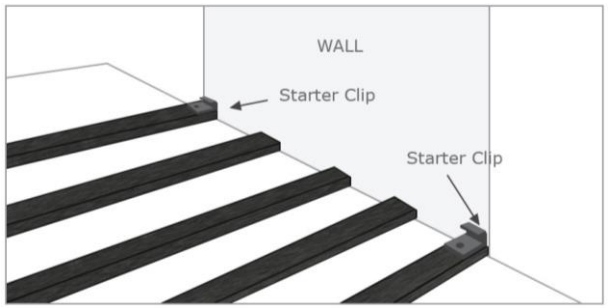
1. Place a starter clip on the first and last joist with a minimum of 4mm from the wall. Pre-drill hole and screw into joist.



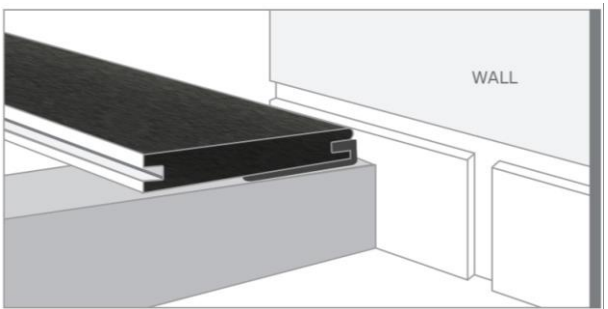
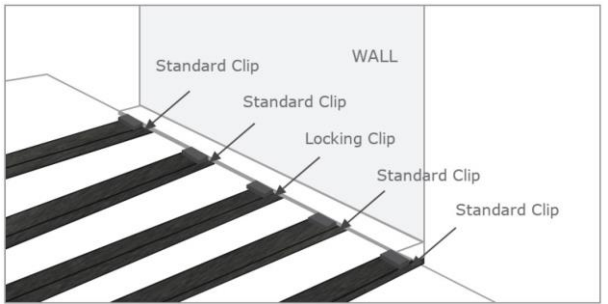
2. Measure and mark a line from the first starter clip to the last one and mark every third joist in between



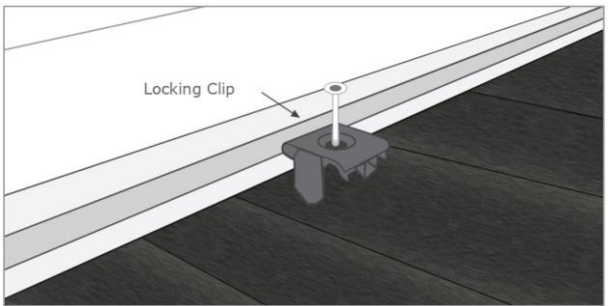
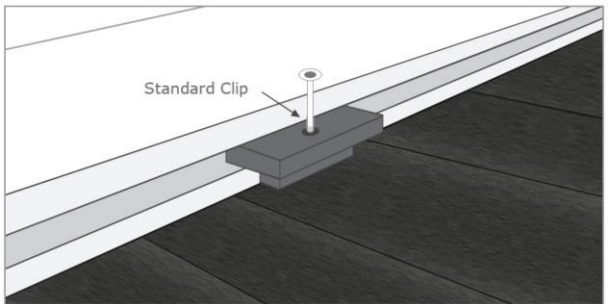
3. Place the starter clip on the marked joist as per first and last joist in Step 1.



4. Lay the first Fusionwood board firmly into the starter clip, if necessary, use a rubber mallet.
5. Insert standard and locking clip into grooved side of the board. Only one locking clip is required at the centre joist of each length of board (eg; if the board is 5.4m then only one locking clip is needed at 2.7m). Pre-drill hole before inserting the screw into the steel joist.



6. Partially screw down each clip so that the screw head is level with the surface of the board. Do not screw down all the way as the next board will not be able to slide in.



7. Slide the next board into position.



8. Repeat Steps 5,6 & 7 until approximately 5 boards have been laid.
9. Measure up these 5 boards to ensure that they are square.
10. Fully screw down these 5 boards area of the deck ensuring that the screws are about 1mm below the surface of the clip. However, still leave the edge of the last board semi pinned to ensure the next board can be laid.
11. Repeat step 5 to 10 (ie; in 5 board allotments) until completed.

INSTALLATION GUIDE (TOP FIX)

It is essential to pre-drill and countersink all holes when installing Fusionwood boards using the top fix method. Pre-drilled holes must be at least a minimum of 20mm distance from all edges for fastening boards. We recommend countersinking before inserting the screws into each board for a nice, clean look.

Tip - We suggest using P&N 12G Quickbit TCT Cut Smart Countersink Drill Bit to pre-drill and countersink holes for use with 10g screws. This applies for both timber and steel joists. This is available from all leading hardware stores.

TIMBER JOIST

We recommend using Stainless steel 10g x 50-65mm to top fix your Fusionwood boards. Nailing is not recommended.

STEEL JOIST

Good quality 10g x 40mm screws that are appropriate for steel is recommended when top fixing your Fusionwood boards.