

Decking Installation Guide

1. Getting Started:

Eco Systems Distribution Ltd is the UK distributor for NewTech manufacturing that produces this elegant composite decking. The formula is made up of 50% recycled post-industrial plastic (PET) & 50% natural wood fibres. This formulation gives the decking incredible strength and durability which will provide long lasting performance.

Please ensure that you follow the installation guidelines and the correct procedures as any variance to this will void your warranty.

When getting started, be sure that you have all the necessary fitting materials -

2. Tools:

Our composite decking works well with standard woodworking tools:

- It is recommended that all blades and routers to have carbide tips.
- Sanding is not recommended as it will change the surface texture and appearance of the composite.
- Proper clothing and safety equipment are recommended when working with all tools and equipment.



Mitre Saw: Standard mitre saws can be used to cut decking to size using a 10"-12" blade or a blade with 30 or less teeth. This is recommended to create a smooth clean appearance.



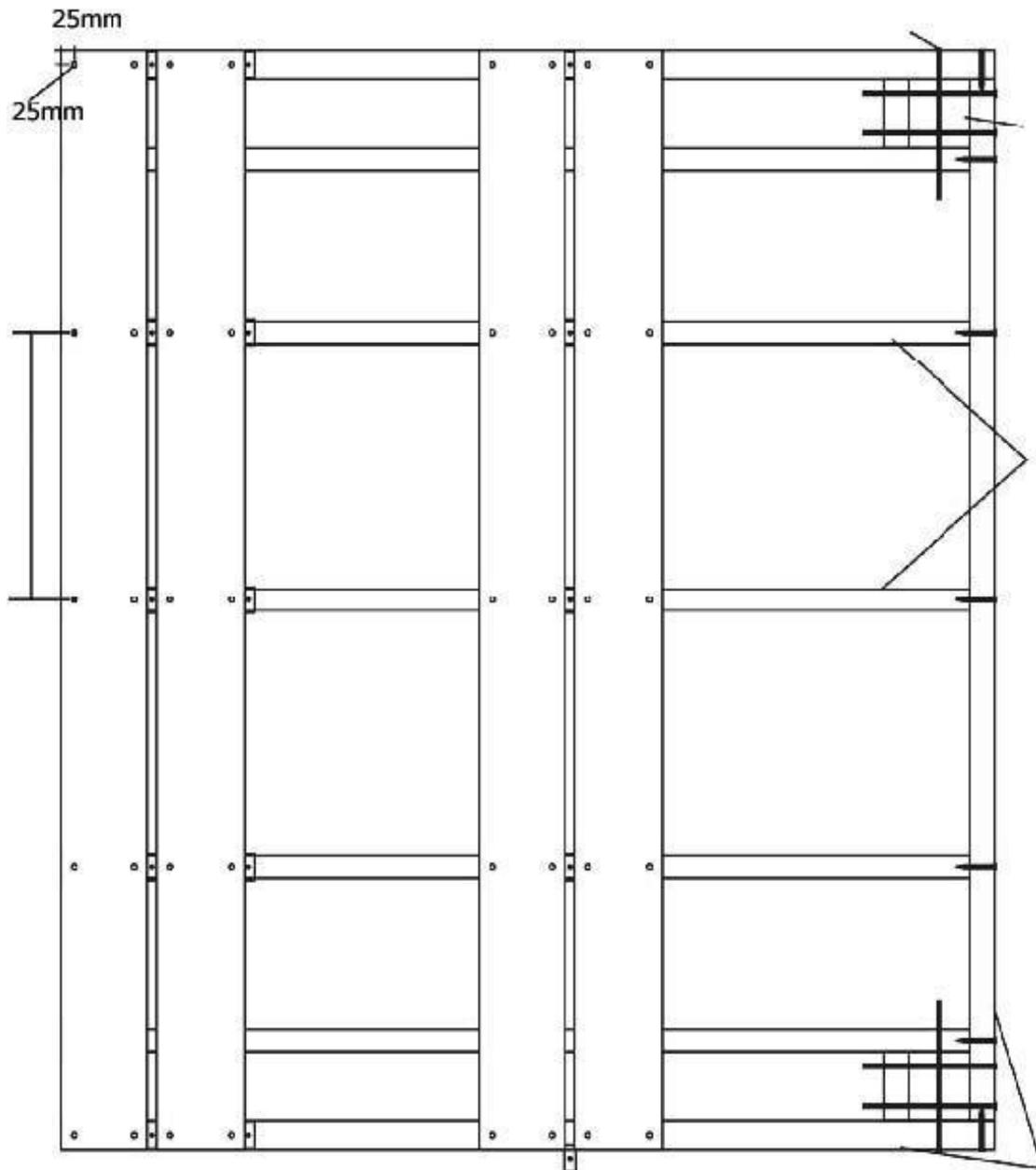
Screw Guns/Drills: These power tools can be used to fix the decking boards providing an easy fastening solution. Standard drills and drill bits can be used when drilling into NewTech composites.



Router: Extraordinary profiles with detailed shapes and patterns can be created with the router. Routers are not recommended for beginner carpenters. Note that routing changes the surface texture and appearances of NewTech composites.

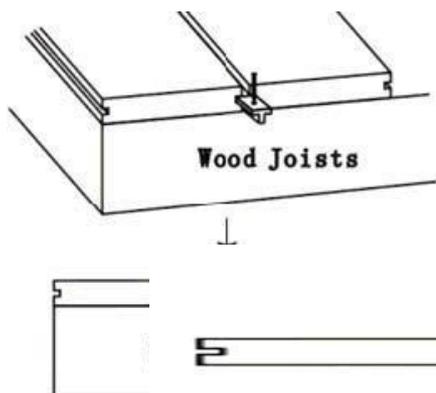
3. Framing and Installation:

- **Fasten at minimum 25mm off edge of board.**
- **8mm x 200mm carriage bolts and nuts with washer (required at all posts).**



- **Rim joist: 50mm x 200mm or larger as required.**
- **Joist spacing needs to be at a minimum 300mm off centre.**

4. Grooved Systems with Hidden Fasteners:



1. Place 1st piece of *EcoDecking* decking at the edge perpendicular to the wood joist. Notch the *EcoDecking* composite to accommodate for the 100mm x 100mm Post.

2. Fasten screws at the edge of deck boards at a minimum of 20mm from the edge on all sides. Note that screws are needed around opening of 100mm x 100mm Posts.
3. Place the 2nd decking with a slight gap between the two boards.
4. Slide the hidden fasteners T-clip C-4 between the two boards; Place one at each joist location.
5. Make sure to put a clip K-2 in the middle between every two boards so that the decking boards will not move at any condition.
6. After all hidden fasteners are in place fix the fasteners on the joist.
7. Continue placing hidden fasteners and *EcoDecking* decking until end. Hidden clips are designed to create even spacing between decking, so simply slide decking tight to hide clips.
8. Place final piece as you did with the first piece. Fix decking on 100mm x 100mm Post and use screws to fasten the edges of the decking (minimum 20mm from edge).



K-2 Anti-walking clip

K-2 clip between decking

5. Fastening:

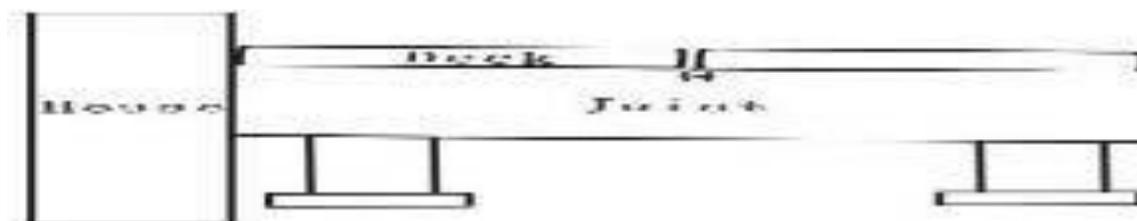
Screws are provided with clips when fitting *EcoDecking* composite decking. When boards need to be screwed, pre-drilling can minimize the effects of mushrooming. Pre-drilling is recommended, although not required, for fastening at least 20mm away from the edge of the board. Fastening less than 20mm away from the edge of the board, though not recommended, would require pre-drilling.

EcoDecking decking is purchased with a grooved profile that allows decking to be installed with *EcoDecking* hidden fasteners as shown in the picture. This hidden fastener system is a great way to conceal fasteners and wood joists. It is also a great way to ensure proper spacing between deck boards.

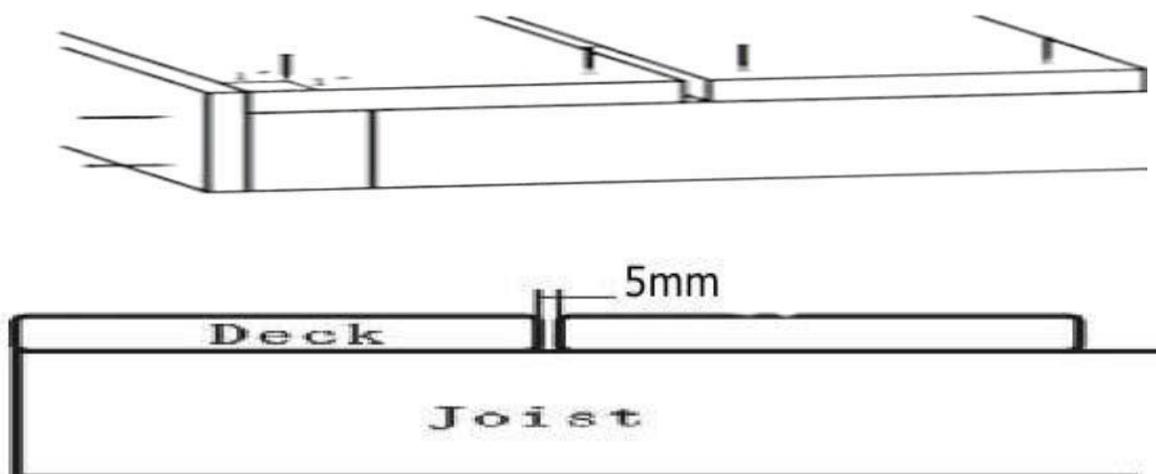
When installing the *EcoDecking* fascia trim, match the edge of the fascia to the top of the deck boards to ensure a consistent level. Be sure to fasten *EcoDecking* fascia to the wood joists. Both Screws (recommended) and nails could be used for fastening fascia.

6.Spacing:

Slightly slope the deck (2mm per 300mm) away from the house to allow for water runoff.



Allow proper spacing between deck boards for drainage, and expansion and contraction of the boards. A gap of 6mm each end for a 5.5m board is recommended to allow for linear expansion, pro rata for shorter boards. *EcoDecking* hidden fastening system is already engineered for perfect spacing every time. Simply install grooved *EcoDecking* decking tight to the hidden fasteners.



7.Expansion & Contraction:

***EcoDecking* Composite Decking Domestic Fixing Specifications**

It is critical to follow the spacing chart below for proper deck performance; non adherence to the fixing recommendations may void your warranty.

Maximum joist distance (center to center) laid at 90 ° to the joist	300mm*
Maximum joist distance (center to center) laid at 60 ° to the joist	300mm*
Maximum joist distance (center to center) laid at 45 ° to the joist	300mm*
Maximum joist distance (center to center) laid at 30 ° to the joist	250mm*
Maximum stringer spacing for stairs (center to center) Note: Stair installation using <i>EcoDecking</i> should always include a riser board	300mm
Minimum spacing between boards (side to side)	5mm
Minimum spacing at end of boards (abutting a wall)	5mm
Minimum spacing from side wall	5mm

Maximum overhang of boards past supporting joist	50mm
Spacing required for end gaps for boards up to 3 metres long	0-7mm
Spacing required for end gaps for boards over 3 metres (not recommended)	Use breaker board
Minimum spacing for screw fixings from the edge of the board	20mm

8.Care & Maintenance:

EcoDecking composite building materials are virtually maintenance free, so very little care or maintenance is required. Here are some tips to keeping your decking looking new:

Mould and Mildew: *EcoDecking* has an antifungal guard added during formulation and an additional antimicrobial surface coating. This means your *EcoDecking* material is protected against mould, mildew and germs, including bacteria. We recommend that you periodically clean your *EcoDecking* material by washing dirt and debris from the surface of the decking. Do not allow twigs and other sources of microbes to build up between the boards. If mould or mildew develops, use a standard deck wash containing calcium chloride. Spray on the solution in concentrated form to a slightly dampened deck surface. Allow 20 minutes for the chemical to set and then simply wash off using a standard garden hose.

Please note: You can use a pressure washer but do not use more than 1200 PSI or hold wand close to the deck surface as this may cut into the surface of the deck causing unwanted scratches.

Heavy Stains: Staining may occur from oil, grease, dark wine, etc, damaging your deck surface. The first action is to clean the spot immediately. The best results will occur by cleaning immediately after the damage happens, before it soaks in to the cellulose fibre. If immediate cleaning is not possible, try to lift the stain from the surface using a degreaser or detergent in hot water. If you are not satisfied with the result of either method use an all-purpose cleaner and non-metallic scrubbing brush.

Please note: If you sand an area, it will not have the same grain pattern as the rest of the deck. Use a protective mat or plastic caps to protect against constant metal contact from sources such as furniture legs, grills or planter stands. Constant metal contact may produce rust stains.

Ice and Snow: Always use a plastic shovel to remove snow from your deck surface. This will not scratch the surface like a metal shovel. If you use a metal shovel, do not chip at the deck surface. Use salt to remove ice from the surface of your deck. Salt will not cause harm or react with the composite formulation. Remove the salt from the deck surface when convenient. Note, however, that prolonged exposure is not recommended.

Fire/Storm Damage/Refinishing: *EcoDecking* works well with a variety of deck stains. A custom formulation of colour-fast properties allows you to recover and maintain the rich beauty of the original colour. *EcoDecking* does fade to a slightly lighter colour due to the bleaching nature of the natural cellulose fibres contained within the product.

Painting: *EcoDecking* does not require any painting over the life of the product. If you want to change the colour of the decking, railing, fencing or furniture products, use a paint recommended for surface coating applications. The paint will not penetrate the surface of the material like traditional wood. Additionally, the paint will last much longer than it would with wood due to the fact that water does not penetrate the interior of the board causing the paint to lift from the surface. Always wait until the surface area weathers before painting to provide more cellulose exposure for the paint to adhere to.

Please note: Always test a piece of product before applying to the whole project to ensure that desired results are achieved.

Miscellaneous: Always place concentrated heavy items where the deck board is in contact with the joist substructure. Constant loading of the deck board without support may cause the decking to sag. *EcoDecking* is not recommended for structural supports.