



PLASTIDECK LIMITED

Composite Decking Installation Guidelines





PROVIDING YOU WITH COMPLETE INSTALLATION GUIDELINES

Please read the Plastideck installation instructions carefully to successfully install your composite decking as failure to do so could invalidate your warranty.

Prior to installing any decking project we recommend that you confirm any local building regulations with your local council or any special restrictions that may apply.

Plastideck composite decking can be installed with competent DIY skills, if in doubt seek the advice and skills of a professional decking installer

Professional Solutions

It is important that the ground is solid prior to sub frame installation in order to avoid any movement which could cause damage to your composite decking at a later date, also consideration should be made for door openings and drainage.



The foundations are very important to any decking project please follow the guidelines below

Original Foundation Type	Foundation's Treatment
Concrete Foundation	Concrete foundation is the most suitable base for your decking project, it is important that the ground is level prior to installation.
Soft Foundation	For soft foundation it is very important that the area is made flat and tamped down to make solid, a waterproof membrane should be used.
Uneven Gravel Foundation	With uneven gravel foundation this surface must be made level and solid by tamping down and possible adding concrete .

- ④ A waterproof membrane should be installed prior to your decking installation.

- ④ We recommend that you leave a minimum of 25mm space underneath the decking board to allow for drainage and air circulation and your deck should be angled by 1-1.5% to allow for drainage as this will encourage water to disperse and therefore reduce the risk of becoming slippery when wet.

- ④ Upon delivery of your Plastideck deck boards it is a good idea to let your decking adapt to the temperature and humidity of the installation environment, it is also important that you store the boards on a flat surface.

- ④ Upon delivery of your Plastideck composite decking boards you may see some slight colour difference between batches, these will settle once weathered over the first 3 months to form an even colour across your deck.






Installation Guidance

Materials that are needed during installation include Plastideck composite deck boards, joists, L corners, clips, stainless steel screws, polypins and all weather adhesive.



Decking Installation Instructions


Installation Accessories

Type	Material	Picture	Real wood
JOIST	Real Wood	 <p>Real wood- Plastideck is suitable for installing on a treated wooden base , we recommend a minimum wood thickness of 45mm x 95mm.</p>	Real wood joist, light weight, strong and relatively cheap



Joist: it is important that the joist sub frame be elevated from the floor to provide drainage and air circulation , we recommend a minimum of 25mm and a waterproof membrane be used on the floor.

Decking Installation Instructions

Type	Material	Picture	Feature
L corner	WPC		Plastideck L corners can be supplied in various colours to give a decorative finish to your decking



L corner to finish off your decking edges neatly.

We recommend that you buy the matching edge trims in our range.

Decking Installation Instructions

Tips: Only use original Plastideck fixings as these have been specially designed for use with our composite range, the stainless steel screws are specially designed for outdoor projects as they do not corrode.

Plastic clips are required during installation.

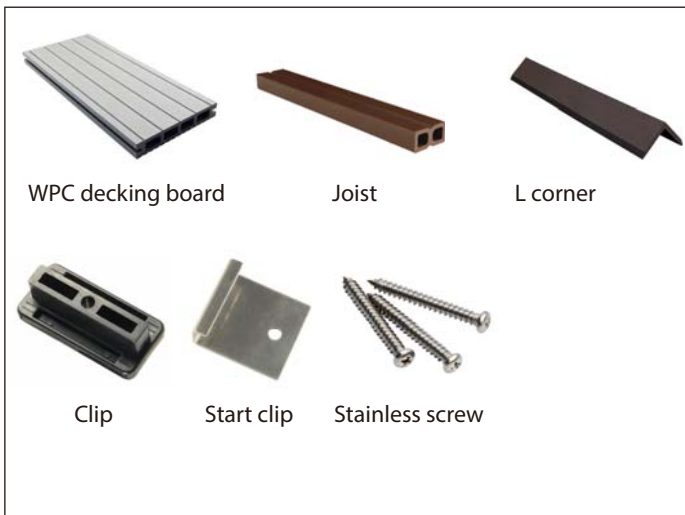
Common Stainless Steel Screw	Plastic clip
	



Decking Installation Instructions

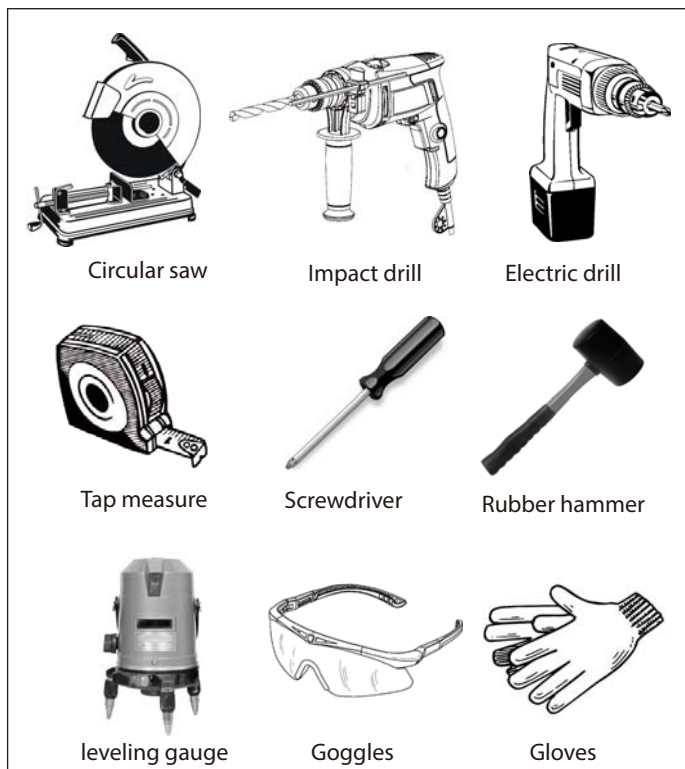
Start to install the floor

Material & Accessories



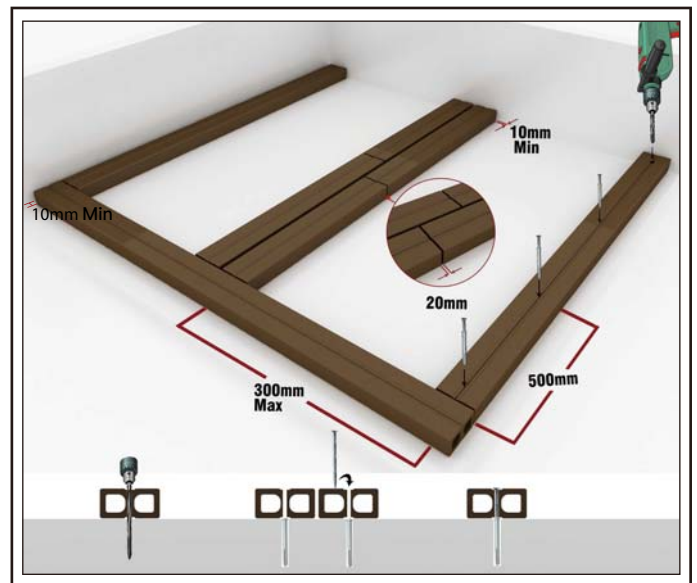
Tools recommended:

Chainsaw + Impact drill + Electric drill + Tap measure +
Screwdriver + Rubber hammer + leveling gauge +
Goggles + Gloves



Fix the joist

1. Ensure good drainage by elevating your sub structure if applicable also your sub structure should be on a slight gradient of 1-1.5 degrees away for the house laid lengthwise keep the joists at least 10mm from the walls or other obstacles to allow for the expansion of the composite decking boards
2. Please keep the distance of the 2 joists between centres of 30 cm maximum.



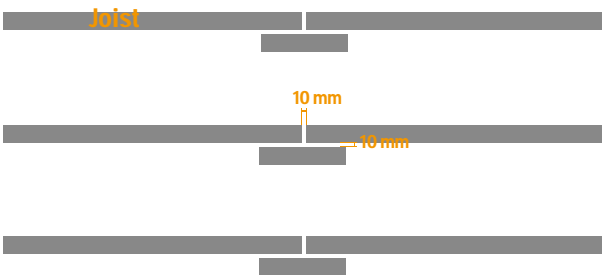
Decking Installation Instructions

Key Points of the Installation

There must be at least 10mm expansion joint between the joist and the obstacle such as walls.

Thickness of decking	Design	Distance of parallel
25±1 mm 0.98±0.03'	Hollow	280±10mm 11.02±0.39'

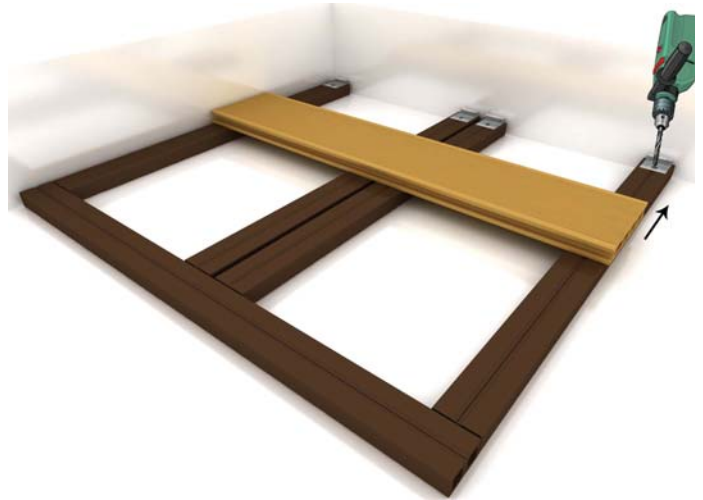
- When laying boards end to end there must be adequate spacing between the 2 boards to allow for expansion (see chart on page 11) this is extremely important to allow the boards to expand freely to avoid warping in high temperatures, also the boards should be supported underneath by 2 joists, one for each end of the board, a minimum of 10mm gap should be allowed between the sub frame to allow water to freely drain away and to give adequate support to the end of the deck boards. A hidden fixing should be used on each board 10mm from the end of the board to secure the end of the board correctly to stop bounce.



Please note that it is an absolute must that the decking surface is mounted flat and no water can collect on the surface or in the chambers.

After the foundation is made and the supporting joists are well fixed, please step up to the following process:

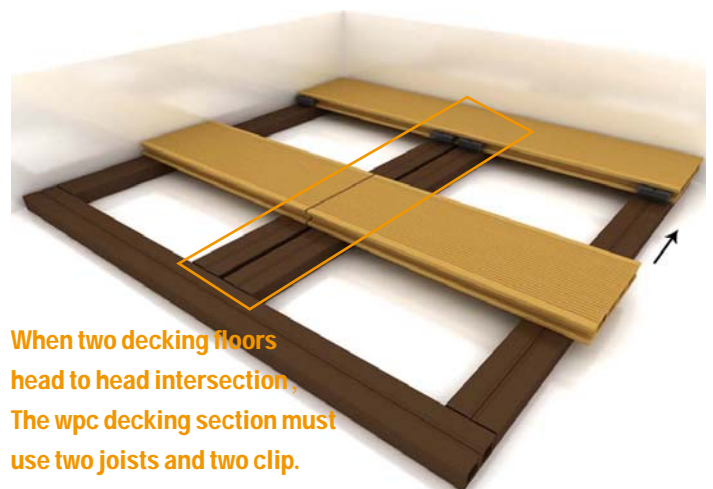
II. Fix the starting clip



WPC decking offers starting clip / starters for the first deck board during installation.

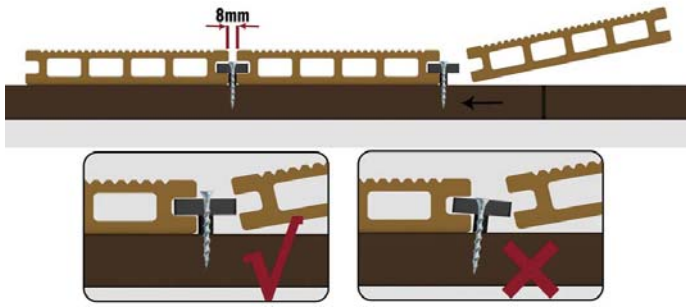
For this fix the starting clip to the joist along your first board starting line every 300mm, pre drilling the sub frame if necessary with a small drill bit to avoid cracking and then push the first WPC decking board in place, it is very important that the starter clips are accurately placed as this could affect the appearance of the decking later on, remember to adequately space away from buildings etc.

III. Fix WPC decking



When two decking floors head to head intersection, The wpc decking section must use two joists and two clip.

Decking Installation Instructions



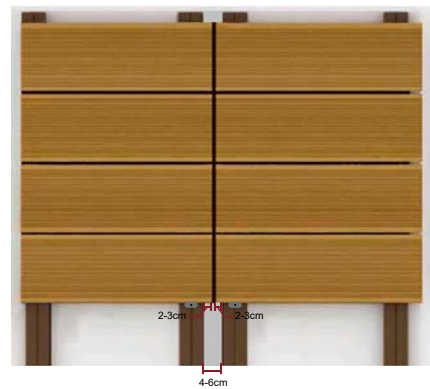
The joists should be smooth and flat with no warping before installing the WPC decking, as shown in the diagram position the clips and stainless steel screws correctly.



There are neat installation method and staggered installation method available, please refer to the following pictures.



Staggered Installation Method



Neat Installation Method

Key points of the Installation

The expansion points between 2 boards will be affected by the natural temperature changes and vary with board length, for the detailed expansion joint please refer to the table below :

Notice: we recommend you take Neat Installation Method when the single decking length is longer than 3 meters. Or you can cut decking into short pieces, and then take the Staggered Installation Method.

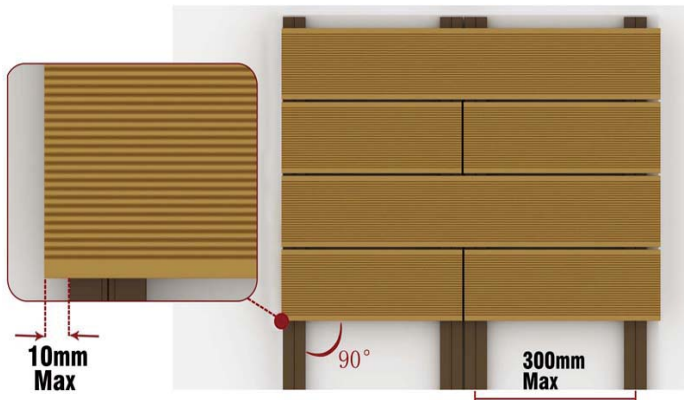
Degree centigrade (C)		-5 °C	5 °C	15 °C	25 °C	35 °C	45 °C
Decking length (mm)							
1000mm	Reserved expansion joints	8mm	6-8mm	5-7mm	4-6mm	2-4mm	0mm
2000mm		≥9mm	8-10mm	6-8mm	5-7mm	3-5mm	2mm
3000mm		≥10mm	8-10mm	7-9mm	6-8mm	4-6mm	2-4mm
4000mm		≥12mm	10-12mm	8-10mm	7-9mm	5-7mm	
5800mm		≥12mm	10-12mm	10mm	8-10mm	6-8mm	3-5mm

Note: We recommend the you finish the installation during a reasonable temperature period and it is advisable not to install under extreme temperatures.

Decking Installation Instructions

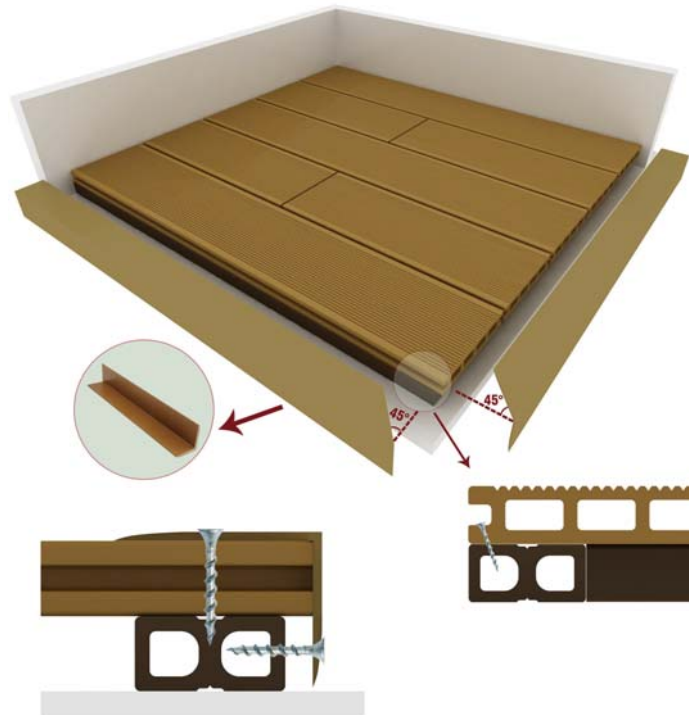
Keypoints of the Installation

Use our plastic clips and the gap between 2 boards will be 8mm, the clips must be perpendicular to the joist otherwise the force on the clips is not even enough which could damage the deck in some way.



Please make sure that there is at least one joist under one deck board at any time with a 300mm minimum span and especially when the 2 deck boards meet end to end, never allow 2 deck board ends to share one joist otherwise the deck board might shrink and fall off the joist or not be adequately supported. Make sure the decking board sections extend by no more than 10mm over the support joists.

IV. Fixing the L corner



Cut the L corner to 45 degrees and secure at the corner of the deck, at the first piece of fixation use the poly pin and secure with all weather adhesive, remember to drill a small pilot hole through the L trim to avoid splitting. Polypins must be secured every 30cm.



Caring For Your Deck

Your deck has been designed to give you many years of trouble free use with a minimum of maintenance, the colour will fade slightly over the first few months as it weathers and then the colour will stabilize and give you many years of enjoyment.

To keep your deck in tip top condition it is advisable to remove marks as soon as possible using water and a mild detergent applied with a soft sponge or cloth, for more stubborn stains e.g. wine, ketchup, cola etc scrub well with a diluted bleach solution and then rinse with large amounts of water.

In extreme circumstances in localized areas Plastideck boards can be lightly sanded on our sanded version or a wire brush can be used on the brushed deck effect by hand only, any discoloration will weather in and match existing boards over time.

Health and Safety

As with all outdoor flooring products they are exposed to extreme weather conditions and caution should be observed.

Plastideck boards have been tested to BS7976-2 and results are as follows

In dry conditions the lowest PTV score was a low slip risk of 48
In wet conditions it was found to have a slight moderate risk of slip measuring the lowest PTV value of 34,
so caution should be taken as with all outdoor products.

These tests were undertaken in a laboratory situation with no consideration for surface debris.

Tests have not been undertaken in icy conditions so extreme caution should be taken as with all decking products.

In commercial applications this should be considered in risk assessments and preventative measures taken as necessary for the environment installed.





A typical light grey Plastideck decking installation



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