

1. Introduction

Welcome to Deckorum Installation Guide

Please fully read the installation guide before commencing any installation works. This will provide valuable information and endeavour to give you long lasting results. From which tools to use and adding the finishing touches, this guide covers the core basics of decking installation. For any clarification of the information please contact the Deckorum team.

The following material is as a guide only, the information is intended for domestic use installation and recommends complying with local policies.

The guide provides information based on the premise that the installer is compliant with safety and building requirements. It is the installers responsibility to ensure all safety procedures and permissions are granted if required.

Tools for installation

The tools required with Deckorum composite decking are standard woodwork equipment. Power tools can also be used unless otherwise stated by the manufacturer. *optional



Power tools:







Drill



Jigsaw*

Safety Equipment:











Pre-installation

Calculate your Area

Before starting it is always good practice to confirm you have the correct amount of materials. When ordering it is recommended to order an extra 5% of decking boards due to the cutting wastage. If adding a 45 degree diagonal layout it is required to allow 15% extra for cutting wastage.

Measure your area multiply the length distance by width distance. Also make a note of the height and the length of visible edges. If L shaped measure both sections A and B to establish the total area in square meters. See diagram:

To determine the quantity required please use our online calculator on the 'Calculate Project' page.

diagram



Section A: Length x Width =

Section B: Length x Width =

Section A + Section B =

_____meters squared

Pre-installation

Calculate your materials

For a personalised service and specific requirements please contact our team on 0203 6334979.

To calculate what you need use the following formula.

To add 5% take meters squared multiplied by 1.0. Total meters squared (m2)	5 (Or 1.15 diagonal layout) = total m2
Total meters: m2 multiplied by 6.60 =	
2.9m Boards: total meters divided by 2.9 =	
Joists (meters): m2 multiplied by 4 =	
Fascia (meters): m2 multiplied by 1 =	
Corner Trim (meters) m2 multiplied by 1 =	
Concealed T Fasteners: m2 multiplied by 24 =	
Concealed Starter fasteners: L multiplied 8 =	
Expansion Anchors: m2 multiplied by 2 =	

Foundations

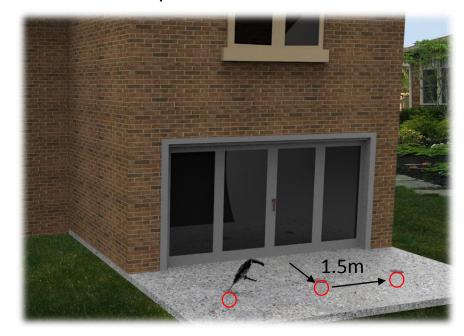
Ground Preparation

Measure out the decking area and mark with string line or alternative. It is necessary to prepare the ground to have solid foundations that will stabilise the entire deck structure. In the designated area ensure it is clean of debris and there is no subsidence that could impact the deck. Remove loose matter and remove foliage. It is advisable to use control fabric eliminating weeds from surfacing. Ensure there is accumulation of water that can affect the installation of the foundations.

Concrete Foundation

If you are using a concrete base, this can be provided from Ready Mix Concrete suppliers. Provide the size to the Ready Mix supplier for the designated area. Ensure a minimum depth of 6cm of concrete for the foundations Sand and cement mixed with water can also be used for smaller areas.

Once the mix has dried the correct drainage is required. Using the hammer drill. Starting from the house wall insert holes at every 1.5 meter interval.



Foundations



Soft Ground

On soil it is required to lay pad foundations. These will provide support to the substructure. Holes need to be marked and dug out at each corner then every 250mm apart along the length and width. The holes should be 150mm squared with a 300mm depth. Fill with concrete until full and allow to dry.

Paving

Avoid the cost of removing your patio or paving by decking over it. If you are decking over a paved area ensure this is clear of loose materials. It is recommended to have a level ground with adequate drainage.

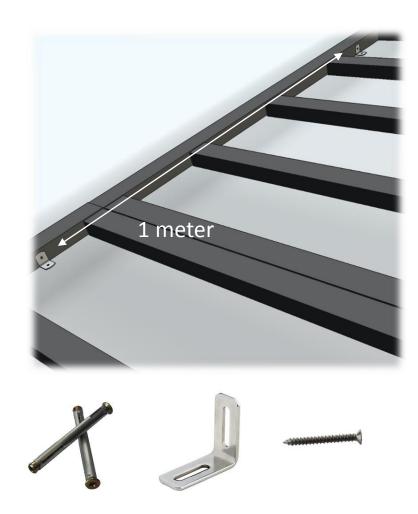
Substructure

Composite support Joists

Use deckorum Composite Support Joists that will not rot or need treating for the substructure. Composite supports joists are well suited to be used with paving, patio and concrete foundations.

Create a frame of composite support joists around the designated area. Leaving a 15mm space from buildings, secure frame by drilling into the ground and use a Slot L Bracket fastened by an Expansion Anchor. Slot L Brackets are used to allow for expansion of composite wood joists. Fasten into joist by always pre-drilling the hole and using stainless steel screws. Do not over tighten screws into joists. Continue to repeat at 1 meter spaces along the frame.

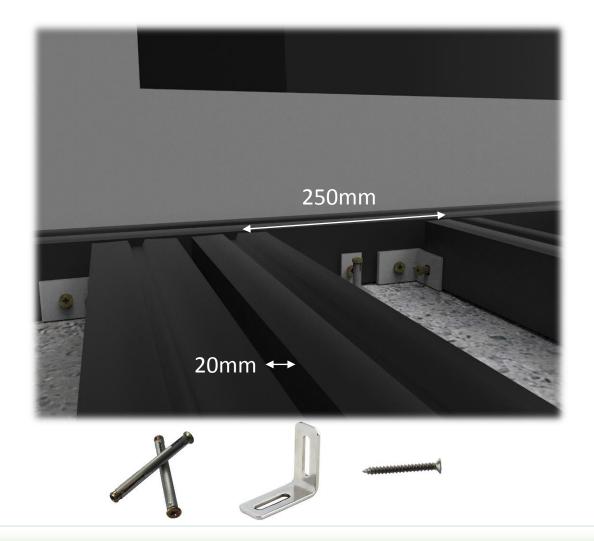
Once the frame is secure the next step is to insert the joists widthways or lengthways.



Substructure

If the direction of the boards is planned lengthways then the joists will need to be placed widthways or vice versa. Joists are spaced 250mm apart, pre-lined centre to centre. Where the deck butt joints will meet, insert an extra joist 20mm apart. Using L brackets secure the joists to the main frame with screws. Optionally each joist end can be secured to the ground using an L bracket and expansion anchor if the distance apart is more than 2.9 meters.





Substructure

Lumber Joists

For a soft ground deck it is advisable to place the deck using posts attached to pad foundations. Composite joists are not suitable as a load bearing support and is therefore recommended to use wood lumber. Create an outside frame that provides the correct measurements of the area, attach posts at each corner and each meter therein at the desired height. Fix each post to the concrete pad foundations using an L bracket by pre-drilling the concrete. Then insert an expansion anchor into the ground and screw the bracket to the lumber.

Insert the lumber joists every 250mm to the frame in opposing direction to the decking boards. Butt joints require double joists 20mm apart. Use joist brackets at each end to secure to the frame. Additional posts can be added in the centre to ensure support.

Flevated Deck

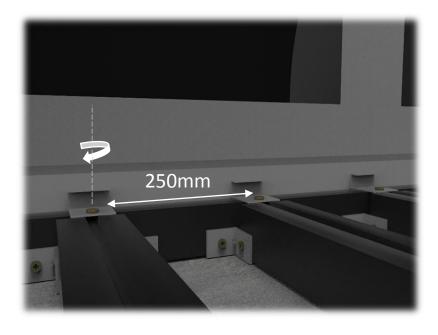
Ideal for uneven ground, insert treated posts every meter into the ground with a 300mm squared and 600mm depth hole. Stabilise posts and add concrete mix. Ensure concrete at the top is shaped to direct water away. When dry attach a frame along outside of posts and remove excess height of the post. Continue by adding joists using joist brackets at 250mm intervals and double joist with a 20mm gap for butt joints. Always treat wood on all sides and ensure to check condition annually.

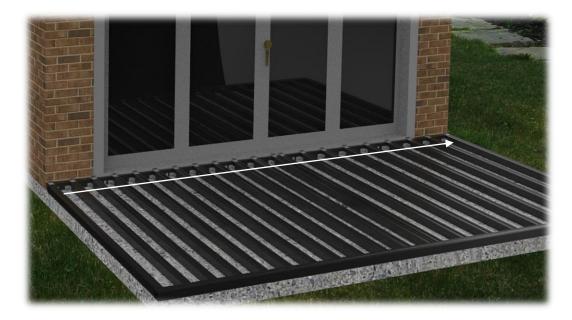


Joist Bracket

1: Starter Clips

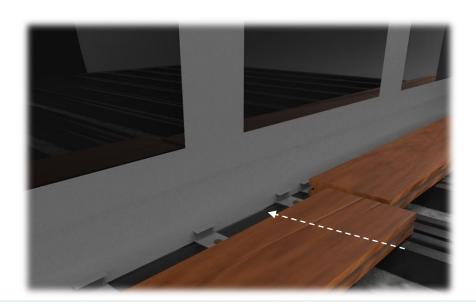
Now that your are ready to start the decking boards installation begin by inserting the Concealed Starter Fasteners to the joist. The first Concealed Starter fastener is placed at the length side corner, centred in line with the pre-lined joist directing widthways. The Starter Fastener is to be aligned to the outside edge and screwed tightly into place. Always pre-drill into composite materials. Every 250mm place a Starter fastener along the complete length of 1 side.





2: First Board

Place the composite decking board on the substructure towards the starter clips. Push board firmly to position the starter clips in the groove, tapping if required to fit the composite decking board in place. Keep the composite decking board end aligned with the joist.



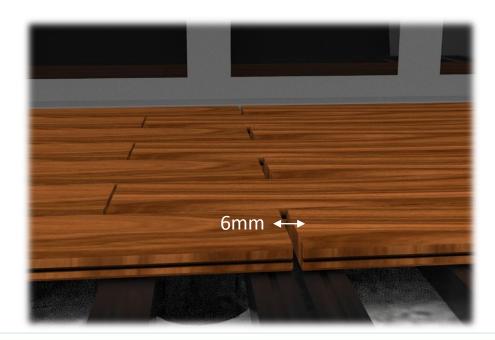
3: Concealed T Fasteners

Slide the Concealed T Fastener in the groove and screw into the pre-drilled centre line of the joist. Do not tighten yet. Place a T Fastener every 250mm apart along the board.



4: Butt Joints

With wood composite decking you must allow for expansion placing a 6 mm gap. Use a T Fastener as gap control which can be removed when the board is secured to the joist.



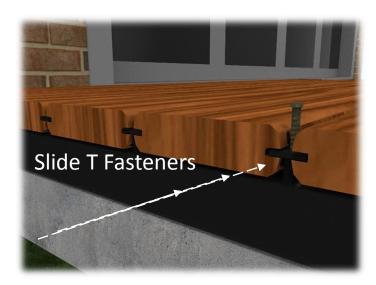
5: Second Row

Place the second row of composite boards into the already fitted T Fasteners. Secure the boards in place by inserting a new row of Concealed T Fasteners. Do not fully tighten. Return to the first row of T Fasteners and fully tighten. Continue to repeat process 3-5 until the last 2 remaining rows.



6: Finishing board

When you reach the last 2 rows of boards, insert the Concealed Starter Fasteners lengthways on the Composite Support Joist at 250mm intervals. Place the 2 boards in place into the designated slots. Slide the T Fasteners along the grooves till reaching the adequate number. Now fully tighten the screws to complete rows.

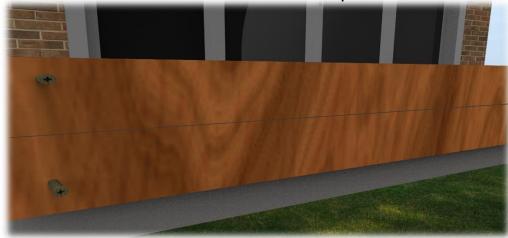


7: Composite Corner Trim Or Composite Fascia

For finishing add the corner trim placed 3-10mm out from the board edges inserting the screws vertically only at 1 meter distances.

Alternatively add fascia boards to the joist with screws in predrilled holes. Insert screws at 1-2 meter intervals.

Both accessories can be added to complete the deck if desired.



Completion

Follow safety checks and confirm all screws are tightened. The deck in now fully complete.





Add furniture to your beautiful Composite Deck and relax for al fresco mornings and for serene evening entertainment.

Space for everyone to enjoy and to share lasting memories.

