

# PEDECK



## PEDECK ALI INSTALLATION GUIDE

A step by step installation guide for the  
Pedeck Ali non-combustible decking system



30 Year Guarantee



Heat Resistant



Durable Textured Finish



Low Maintenance



A2fl-s1 / A2s1, d0 fire rated



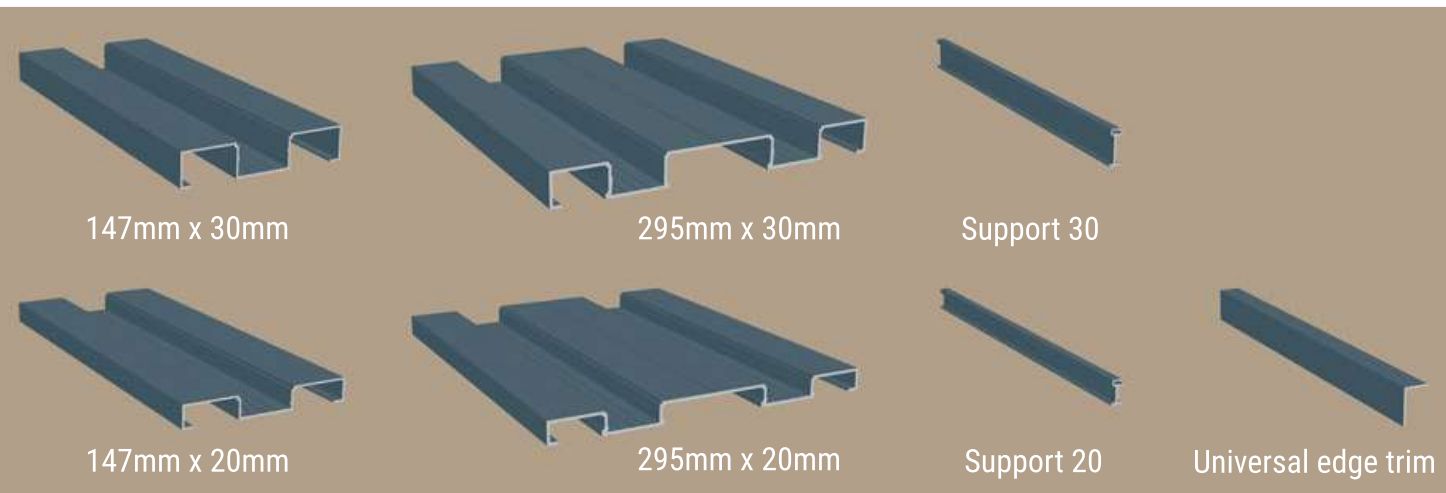
Stable in all Weather Conditions



Recyclable

## COMPONENTS

The list below simply shows all of the components and fixings within our aluminium decking system.



## FIXINGS

Fixings are supplied directly by Rubbertech.

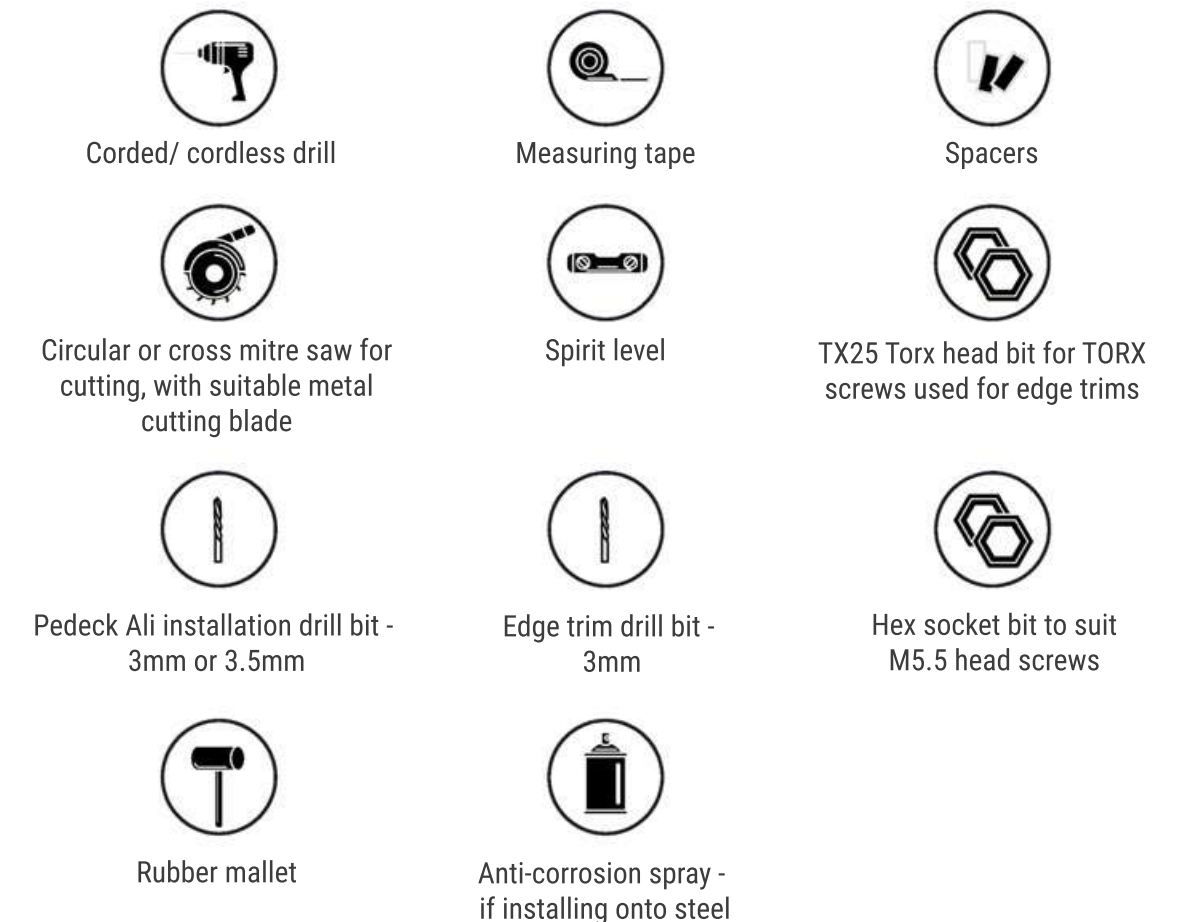
- 5.5 x 25mm screw (for the boards to bearers)
- 5.5 x 38mm screw (for the boards to bearers)
- 4.8 x 19mm screw (universal edge trim)



Always wear appropriate PPE for cutting metal i.e. gloves, goggles, ear defenders etc.



## TOOLS REQUIRED



## WARRANTY

To Validate warranty, all components in this guide must be used to the requirements listed. Failure to use appropriate components will result in no warranty being issued.

## SITE STORAGE

Ensure boards are kept on the pallets they arrive on until use. Pallets must be stored on a flat surface and kept away from other construction work. Once delivery is signed for, Rubbertech have no responsibility for damage to the product.

## INTRODUCTION

This guide will walk you through the process of installing Pedeck Ali non-combustible decking system, whether you are fixing to aluminium pedestals or straight onto existing steelwork.

The Pedeck Ali non-combustible system provides a durable, low maintenance surface for outdoor spaces and is ideal for terraces, balconies and roof gardens.



## PEDECK ALI PRE-INSTALLATION GUIDANCE

Decking boards and channel covers will arrive on site 100mm over length and on occasion with a powder coat jig hole in this extra length. If you have not requested that these holes be removed (additional service offered at point of sale), they will either need trimming prior to fitting or used in areas that are hidden from view i.e. under edge trims.

Channel covers must not be staggered or bridge individual board ends where there is an end to end expansion joint.

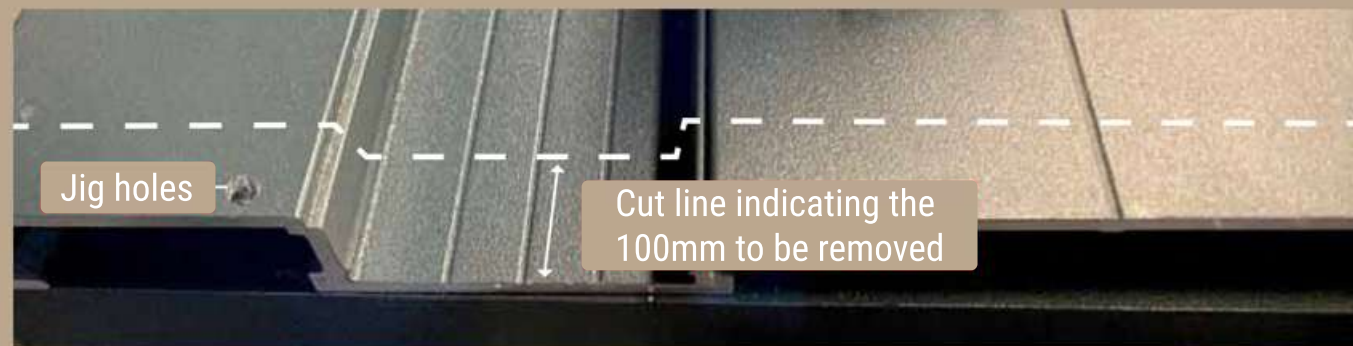
Channel covers are supplied in lengths that match the specified deck board length.

Any decking boards cut to length on site will also require the associated channel covers cut to the same length.

This will ensure there are no mismatched lengths of channel covers, creating unrecommended joins in the middle of a deck board.

When cutting either 147mm or 295mm decking boards to length, on site using a chop saw, this must be capable of cutting in excess of 300mm for the greatest width. Recommended blades should be a TCT (Tungsten Carbide Tipped) blade with a high number of teeth.

When cutting decking boards lengthways (ripping a board) we recommend a similar TCT (Tungsten Carbide Tipped) blade.



These instructions correspond to current knowledge and will be modified if necessary. The installation instructions in this document are non binding, therefore Rubbertech Ltd or its affiliated brands cannot be liable for the results of any installations carried out. On site support is available, if required.

We may also ask to see the project during and at the end so that we can add this to our case studies. Please contact our technical department for any more information.

### Comfort Grip 147

20mm depth:	Max. 600mm centres at 4kN point load
30mm depth:	Max. 800mm centres at 2kN point load

Max unsupported 147 board end overhang:  
Max unsupported 295 board end overhang:

### Comfort Grip 295

20mm depth:	Max. 800mm centres at 4kN point load
30mm depth:	Max. 1200mm centres at 2kN point load

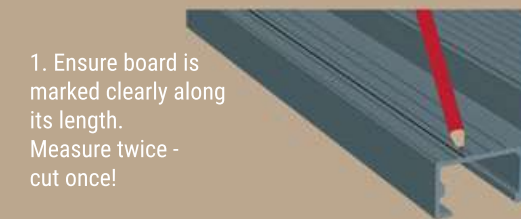
20mm & 30mm depth = 50mm  
20mm depth = 100mm/ 30mm depth = 150mm

These fixing centres are in accordance with BS 8579:2020 Guide to the designs of balconies and terraces and produce a deflection of less than 5mm as recommended.

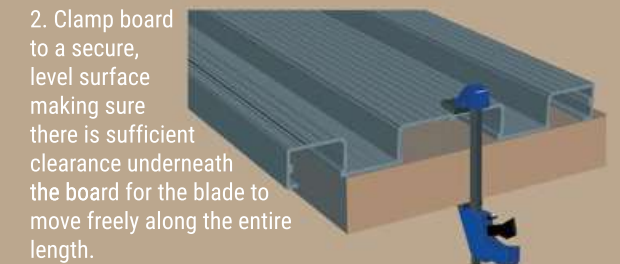
All boards MUST span a minimum of three bearers (no matter the length of the board)

## CUTTING/RIPPING A BOARD ALONG ITS LENGTH

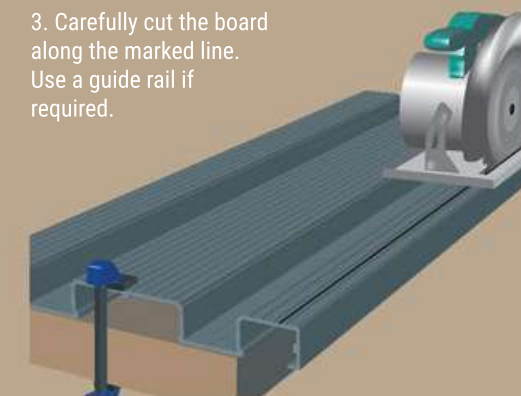
Make sure appropriate PPE is worn for all cutting of materials



1. Ensure board is marked clearly along its length. Measure twice - cut once!



2. Clamp board to a secure, level surface making sure there is sufficient clearance underneath the board for the blade to move freely along the entire length.



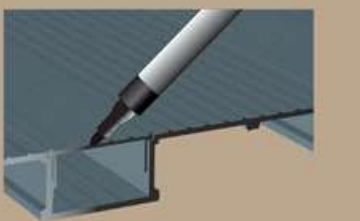
3. Carefully cut the board along the marked line. Use a guide rail if required.



4. Deburr along the cut edge.

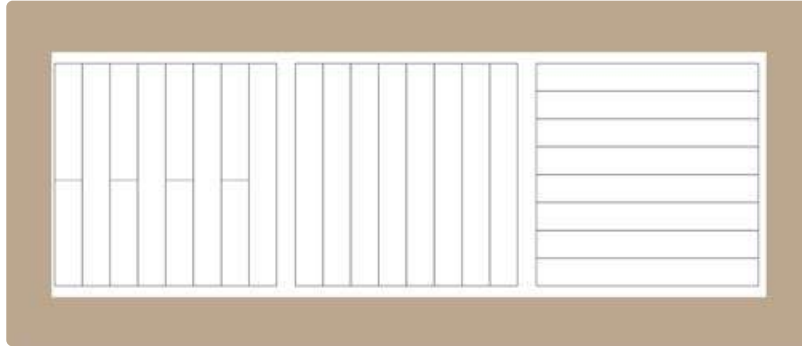


5. Install a leg support trim by tapping it on along the cut edge using a rubber mallet. The leg support is to assist with strength where material has been removed.



6. For any cut edges or ends that are left exposed, colour coded touch up pens are available.

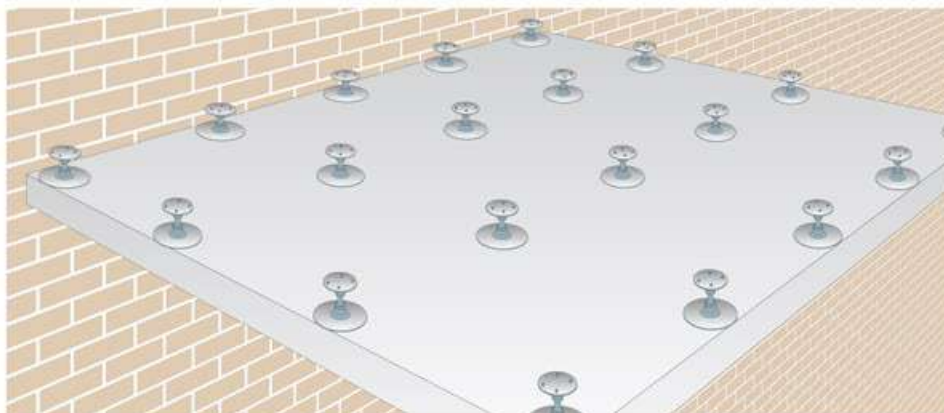
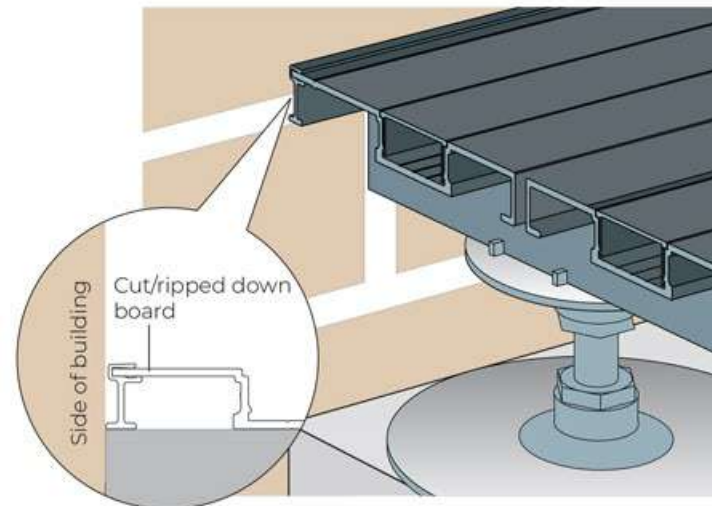
## INSTALLING PEDECK ALI DECKING SYSTEM



1. Predetermine the layout (rotation, staggered etc.) of your decking and where your cuts (if any) are going to be.

2. Decide which side of the installation you require a full board to start/end or where a cut/ripped down board will be located. Place ripped board where the least amount of footfall is expected and ensure an appropriate leg support trim is applied.

The maximum unsupported board end overhang is 150mm for the 30 x 295mm board. For other board details please contact our technical department.



3. Sketch/plan locations of pedestals within area to be decked and lay them out on the ground according to your plan.

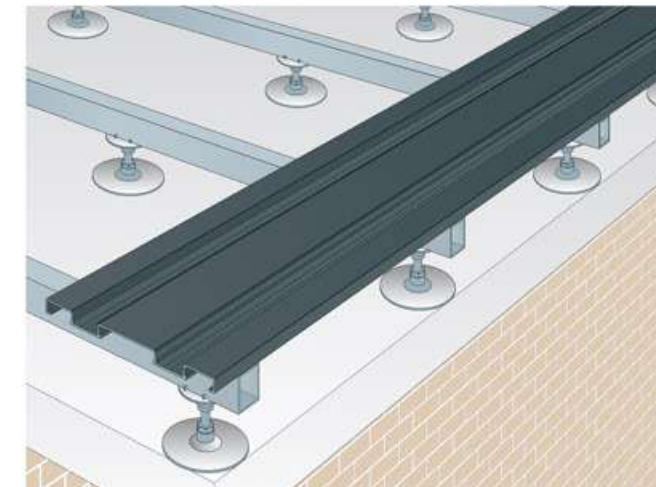
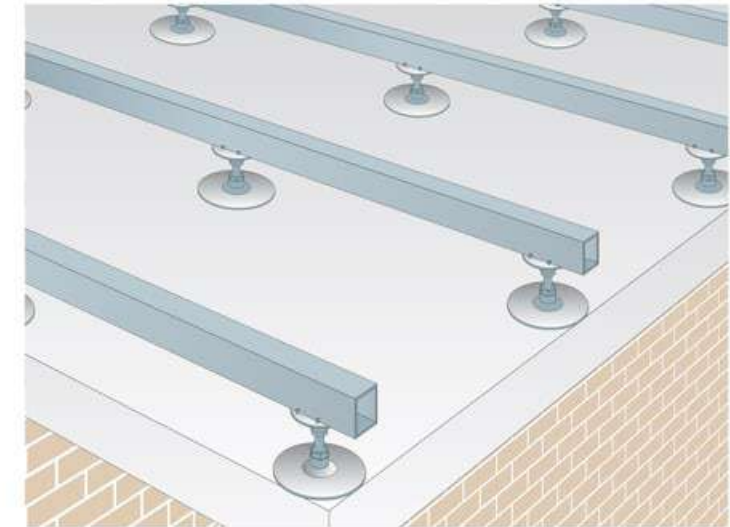
When using adjustable pedestals these can be set to create suitable falls.

## INSTALLING PEDECK ALI DECKING SYSTEM

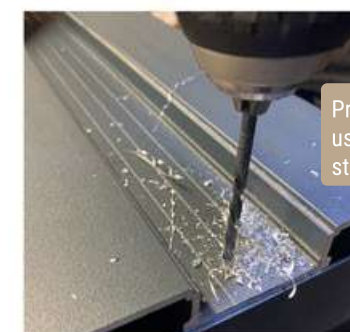
4. Where there is no risk of wind uplift a 'floating system' of the bearers, loosely sitting on top of the pedestals is acceptable as in most instances the weight of the decking on top of the bearers is sufficient to hold it all in place.

If the area may be at a level subject to high winds, for example, on a roof terrace of a high rise building, then we would suggest securing the bearers to the pedestals.

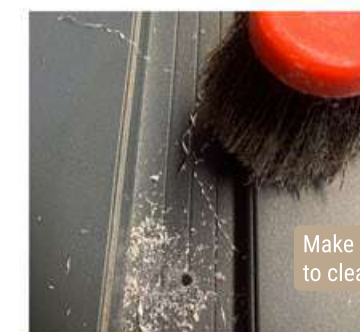
This will depend on the type of pedestal and bearer system used. please contact our technical department if more information is required.



5. Place the first board down (minus the channel cover/s) and predrill through the board and into/through the substructure. Our screws do have a cutting tip for self tapping, but we do recommend pre drilling the boards and substructure so that the swarf can be cleared away.



Pre drill holes using 3/3.5mm steel drill bit.



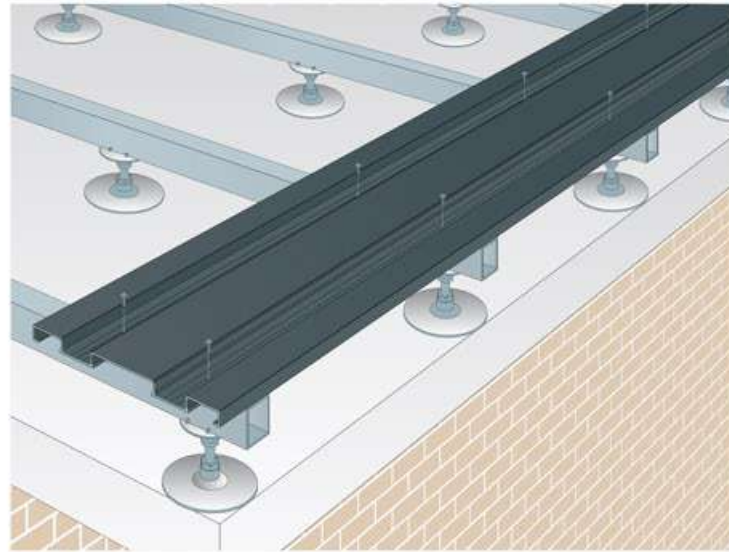
Make sure to clean swarf



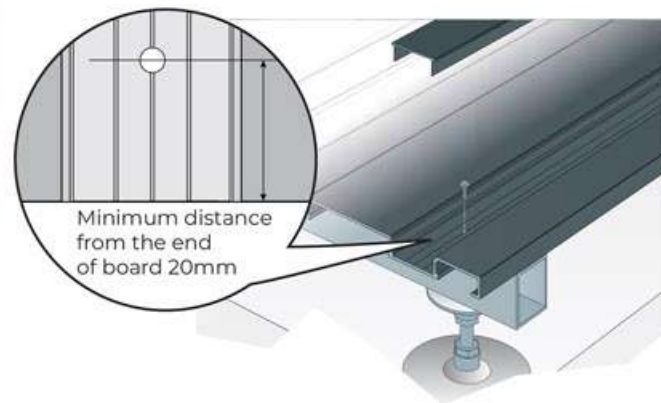
Apply anti-corrosion spray to drill holes



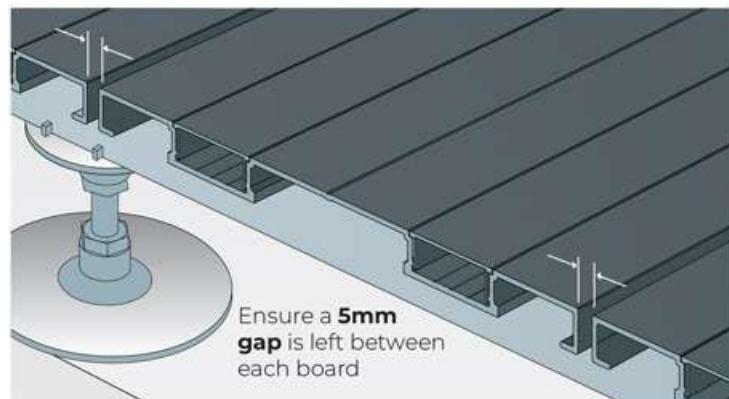
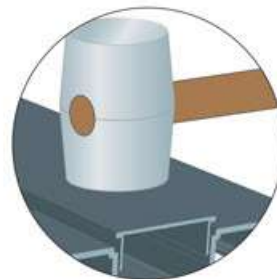
## INSTALLING PEDECK ALI DECKING SYSTEM



6. Ensure board is in its correct position and install the screws.  
One screw is recommended per fixing point per board channel and screws should be a minimum of 20mm from the end of board.



7. Clip the channel cover into position. This should be done using a rubber mallet to knock the cover down into place.



8. To meet ventilation, drainage and expansion requirements ensure a 5mm gap is left between each board.

9. Place next board down parallel to the previous 'starter' board and ensure there's a 5mm gap in between.

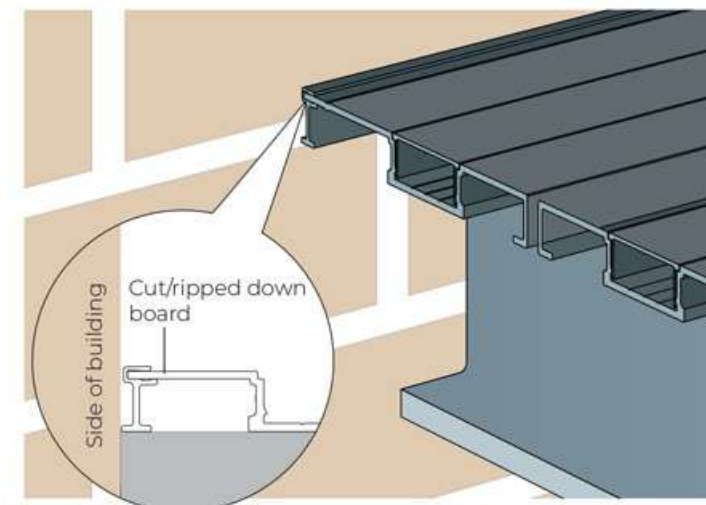
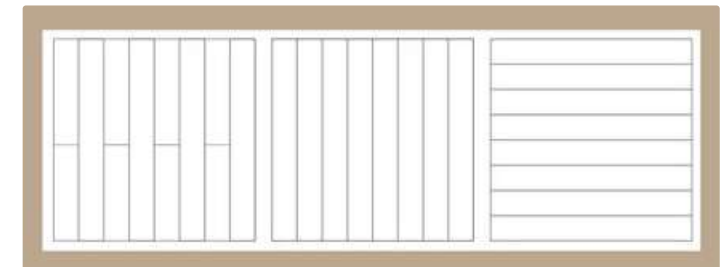
## INSTALLING PEDECK ALI DECKING SYSTEM

10. To complete the deck, fit the universal end trim to the ends of the boards. The trim should be cut to size and fixed down using the end trim screws. One screw is required per board end and should be fixed into the centre of each board. Predrill using a 3mm drill bit to clear the swarf from the surface. A touch up pen can be used to paint the cut ends of the trim where visible.



## INSTALLING PEDECK ALI DECKING ONTO EXISTING STEELWORK

1. Predetermine the layout (rotation, staggered etc.) of your decking and where your cuts (if any) are going to be.



2. Decide which side of the installation you require a full board to start/end or where a cut/ripped down board will be located.

place ripped board where the least amount of footfall is expected and ensure an appropriate leg support trim is applied.

The maximum unsupported board end overhang is 150mm for 30mm x 295mm board. For other board details please contact our technical department.

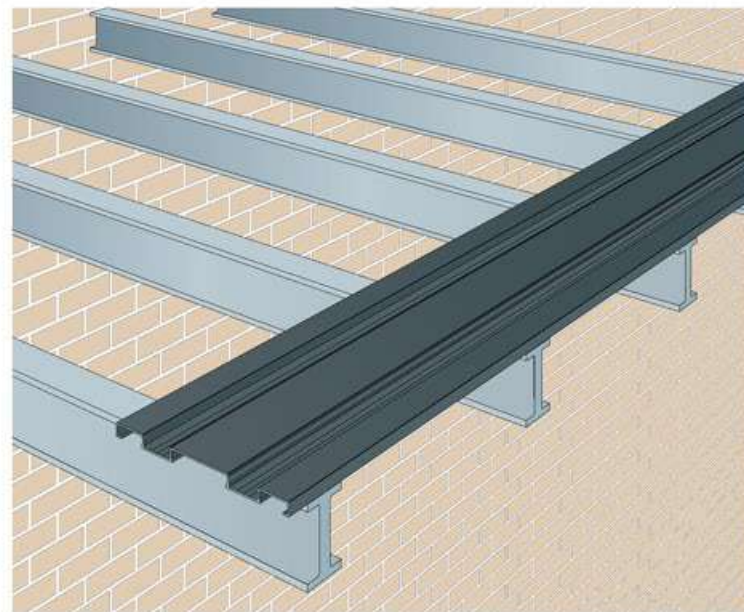
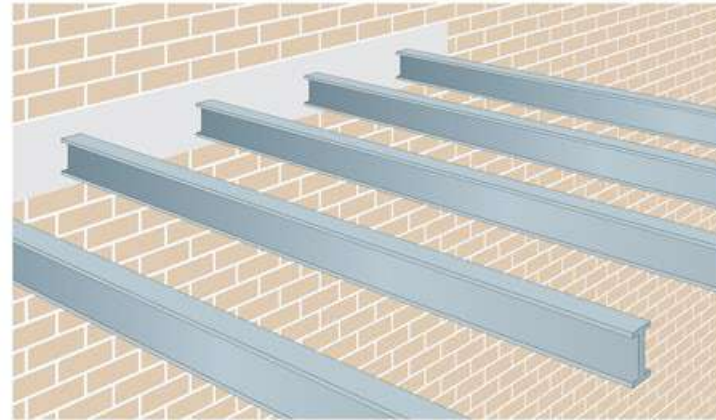


## INSTALLING PEDECK ALI DECKING ONTO EXISTING STEELWORK

3. Ensure surfaces where decking is to be installed are all clean and even.

Any uneven surfaces can result in distortion of the board which may allow some movement in the channel covers.

When fixed down to a secure flat surface, the boards are designed to 'grip' the channel covers securely.

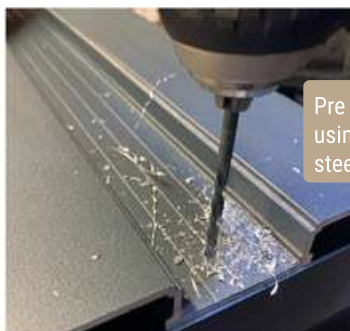


4. Place the first board down(minus the channel cover/s) and predrill through the board and into/through the substructure.

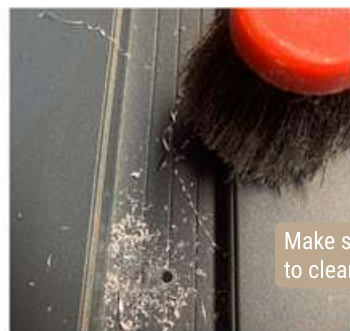
It may be necessary due to the thickness of the steel for a larger drill bit to be used. Please refer to the Technical Screw Information for clarification (P.3).

Our screws do have a cutting tip but we recommend predrilling of the boards and substructure so that any swarf can be cleared away to avoid any corrosion risks of bare metals reacting in the future which can cause leaching and staining.

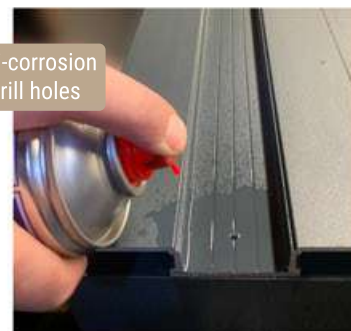
5. Apply an anti-corrosive spray to the pre-drilled holes to avoid any possible galvanic reaction with the steel substructure.



Pre drill holes using 3/3.5mm steel drill bit.



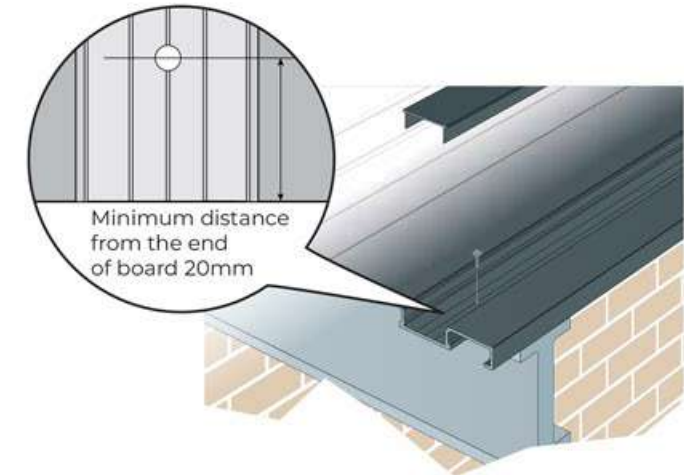
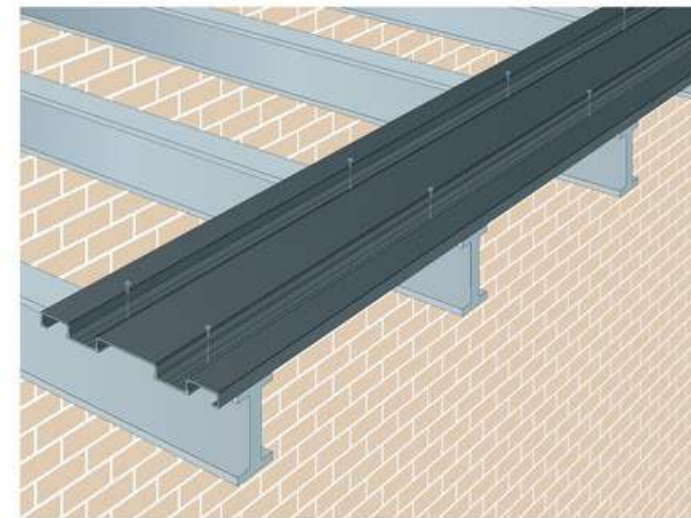
Make sure to clean swarf



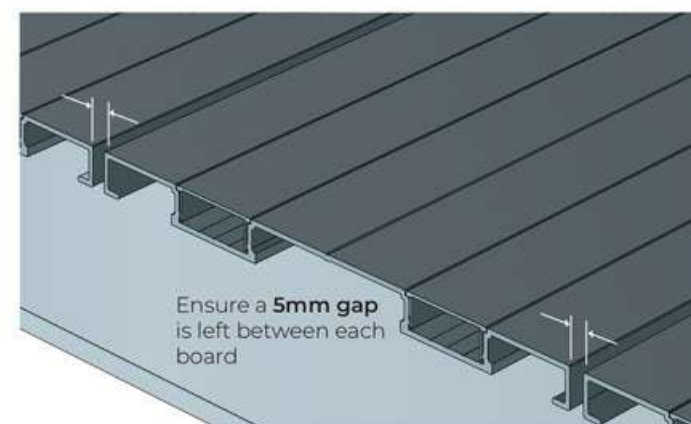
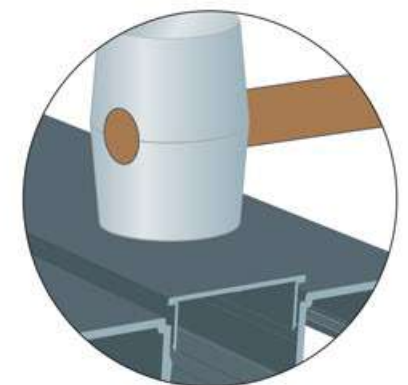
Apply anti-corrosion spray to drill holes

## INSTALLING PEDECK ALI DECKING ONTO EXISTING STEELWORK

6. Ensure board is in its correct position and install the screws. One screw is recommended per fixing point per board channel and screws should be a minimum of 20mm from the end board.



7. Clip the channel cover into position. This should be done using a rubber mallet to knock the covers down into place.



8. To meet ventilation, drainage and expansion requirements ensure a **5mm gap** is left between each board.

9. Place next board down parallel to the previous 'starter' board and ensure there's a **5mm gap** in between

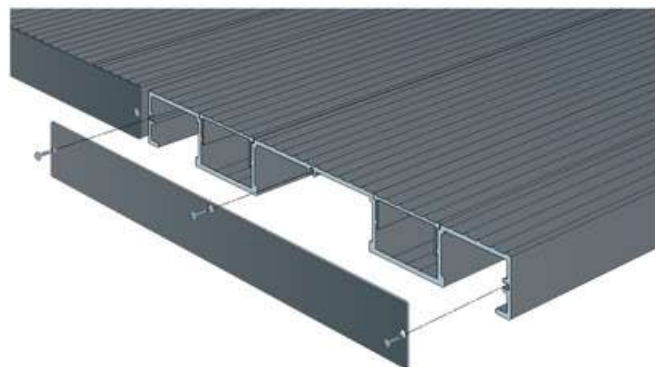
## INSTALLING PEDECK ALI DECKING ONTO EXISTING STEELWORK

10. **If using Pedeck Ali Comfort Grip:** To complete the deck, fit the universal end trim to the ends of the boards.

The trim should be cut to size and fixed down using the end trim screws. One screw is required per board end and should be fixed into the centre of each board.

predrill using a 3mm drill bit to clear the swarf from the surface.

A touch up pen can be used to paint the cut ends of the trim where visible.



**If using Pedeck Ali Enhanced grip:** To complete the deck, fit the end plates to the ends of the boards.

The end plates should be fixed into the screw ports using appropriate end trim/plate screws, using all ports available.

FOR ADVISE ON THE INFORMATION IN THIS INSTALL GUIDE,  
PLEASE GET IN TOUCH WITH US.

## CARE AND MAINTENANCE GUIDE

Pedek Ali boards should be cleaned with warm soapy water only and rinsed thoroughly with fresh clean water.

- Do not use steel wool, scrapers, sandpaper, scouring liquids or powders as they will permanently scratch the coated surface.
- Do not use strong solvents, alkaline or acid cleaners.
- Do not use pressure washers or steam cleaners.
- Do not clean the surface when it is strong direct sunlight.

• To prolong the life and premium appearance of your Pedek Ali decking installation, we recommend that it is cleaned at least every six months. This frequency should be increased in exposed coastal areas or a dusty industrial environments.

- It is important to prevent the build up of dirt, mold or seasonal organic matter on your Pedeck Ali decking surface and the cleaning frequency should allow for this.
- The deck should be inspected every 12 months to check for defects and any changes that are of concern, including loose boards, signs of damage, distortion or corrosion.

\*Please ensure when fitting Pedeck Ali decking system, you follow the guidelines and components in this install guide for an warranty to be issued, failure to do this will result in a void warranty.



If you have any questions in regards to the installation of our Pedeck Ali decking system, please do not hesitate to get in touch with a member of our technical department.



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