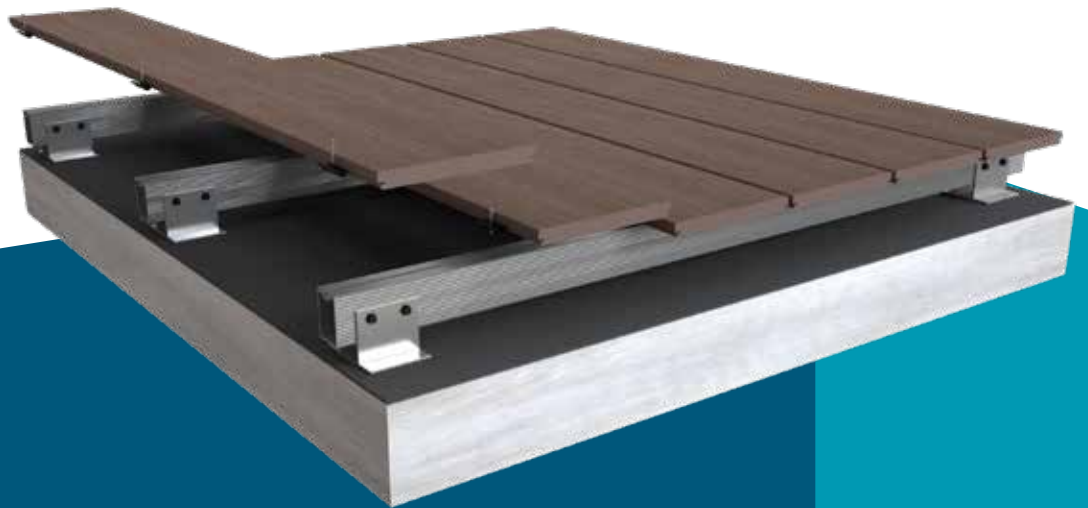




Luxura®
Mineral Composite Decking System

Installation Guide



A Substructure Installation

B Luxura Mineral Composite Deck Boards Installation

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Introduction

Welcome to your MyDek installation guide. This guide has been produced to facilitate successful installation of your deck system.

As with any successful project, having the right tools for the job is an essential part of success and we've listed some recommendations below:

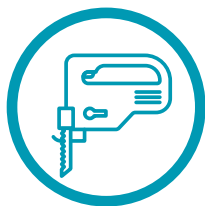
Tools and Equipment List



**Circular Saw/
Chop Saw**

Blade specification

- PCD (polycrystalline diamond) for mineral composite
- Aluminium or multi-material blade for aluminium



Jigsaw

Blade specification

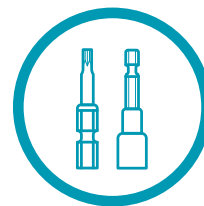
- Tungsten Carbide for mineral composite
- Multi-material blade for aluminium



Cordless drill

Drill bit specification

- Tungsten carbide with tile point tip drill bit for mineral composite
- Metal cutting or multi material for aluminium

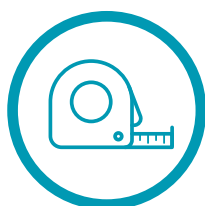


Driver bits:

- Long shank T15 Torx bit for mineral composite board fixings
- 8mm Hex driver for BoxRail system



Pencil



**Tape
measure**



**Spirit level/
Laser level**



**Vaccuum
cleaner**

for dust extraction

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Storage and handling

All storage, logistics and installation must be conducted under an appropriate risk assessment and method statement.

- Always wear gloves when handling boards.
- Boards must be stored flat, supported along their entire length such as on a suitable pallet.
- Store in a dry, ventilated area
- Do not store boards in damp or exterior conditions, this can cause mould build-up between the boards.
- Do not overload pallets, failure of a pallet can cause the stack to topple. Instead, stack up to 2 metres high in total and within the capacity of the pallet.
- Do not drag boards off the stack, instead, avoid scratches by lifting boards using a suitable technique, and where possible using suitable lifting aids.
- Use lifting aids and Personal Protective Equipment as set out in the risk assessment and method statement.

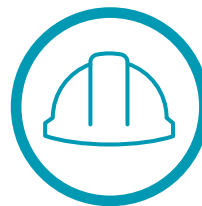
Minimum Health and Safety Equipment



Goggles or safety glasses



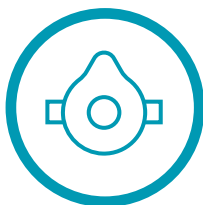
Gloves



Hard Hat



Safety boots



Dust Mask

Important!

Cutting mineral fibre composite can create dust. Always wear a suitable dust mask and use dust extraction equipment.

Special Tip! Always run the saw or drill at a slower speed to avoid generating excess heat. this increases the longevity of the blade and cutting efficiency. We also advise using a lubricating wax to reduce friction and extend the blade life.



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A Substructure Installation

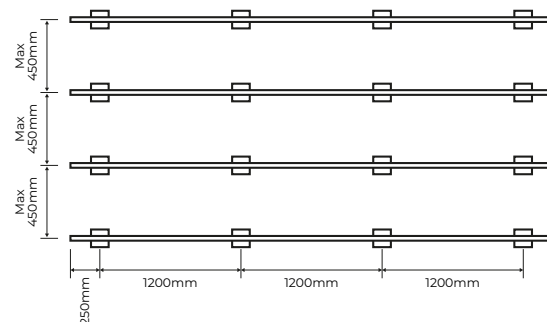
BoxRail™ and Cleat Substructure System

1. Plan and set out the balcony area with **BoxRail™** joists placed loosely at the correct spacings to accept the decking.

Ensure that there are joists close to the ends of the decking boards to provide support (preferably not more than 150mm cantilever at the end of board)



60 x 40mm **Boxrail™** rails should be spaced at maximum 450mm apart with cleats at maximum 1200mm apart along the rail. Max overhang of joist beyond pedestal or cleat 150mm.



2. Set out a cleat foot at each point required using appropriate spacings along the length of the **Boxrail™**, usually 1200 - 1500 mm (refer to technical data sheets if unsure)



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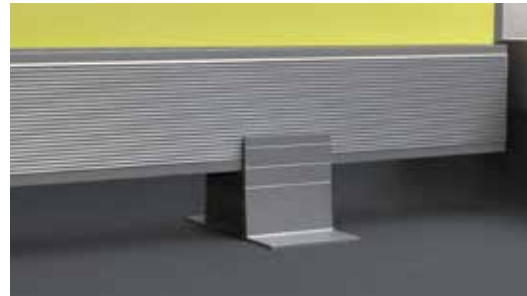
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- 3.** Clip the first cleat foot onto one end of the **BoxRail™** and adjust to approximately the right height.



- 4.** Repeat at the other end. Place the **BoxRail™** carefully into position at one edge of the balcony and check level. Adjust the **BoxRail™** in the feet till a level position is achieved.



- 5.** Fit additional feet at approximate spacings in between the first and last foot, and adjust for height.



- 6** Using the groove as a positioning guide position 2 screws approx. 30mm apart to each side using the self drilling screws provided and fix through each cleat foot into the **BoxRail™**.



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- 7.** Repeat steps 3-5 on the other joists positions, levelling each joist with the previous one to maintain a level structure for the decking.



- 8.** Install decking as per Decking Installation Guide, later in this manual.

NOTE: Max overhang of board beyond joist: 150mm



IMPORTANT NOTE!

MyDek decking systems are lightweight, however any live and permanent loads will be transferred through the pedestals/supports and can impose significant point loads. Consideration should be given to the terrace surface to ensure;

- i. The structure is sufficiently strong and robust to accept the expected loads without undue deflection
- ii. Any waterproofing membrane will not be damaged by the proposed point loads throughout its design life. (please consult manufacturers guidance)
- iii. The surface is smooth enough to ensure full contact between baseplate and surface.

Should there be any concerns, consideration should be given to either providing spreader plates under the supports, or reducing the support centres. **MyDek** offer a range of spreader plates and can offer advice on indicated expected loads on request.

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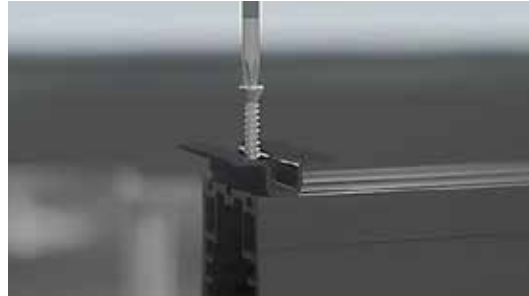
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B Luxura Board installation

Mineral Composite Board Install

1. Fix a Basic Clips to the starting ends of the rails using the self-drilling screws provided. T15 long shank driver bit required. Insert screws about halfway only.



2. Insert the first board into the clips and check that all the sub-rails are correctly aligned. Tighten the screws completely. Check levels and adjust supports accordingly if required.



3. Insert the next row of fixing clips into the board and tighten screws to approximately halfway.



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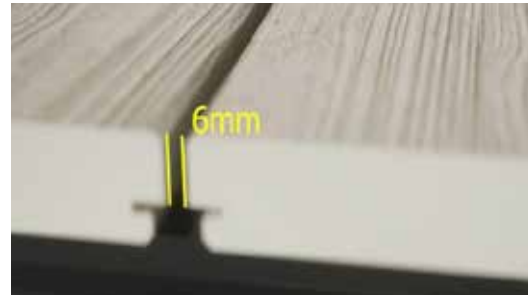
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B Luxura Board installation

Mineral Composite Board Install

- 4.** Lay the second board up to the row of clips, allowing a maximum 6mm gap between the boards for drainage. Fully tighten the screws. Repeat the process until all the boards have been laid

TIP! To ensure accurate and consistent spacing, insert 6mm plastic packers and remove once screws are tightened.



- 5.** To fix the last board, position the board against the last clip and tighten the screw. Then, using the correct 3.5mm drill bit, pre-drill a pilot hole through the deck board to the aluminium sub rail.

TIP! Ensure to use a tungsten carbide drill bit for maximum longevity and keep drill at a medium speed. This prevents overheating and maximises the cutting efficiency of the drill bit. Drilling high speed increases friction heat and reduces cutting efficiency.



Use of a lubricating oil or wax will further extend the life of the cutting edge

- 6.** Insert the self-drilling, colour matched screw and tighten completely.

TIP! Tighten the last bit of the screw carefully to avoid damaging the surface of the board.



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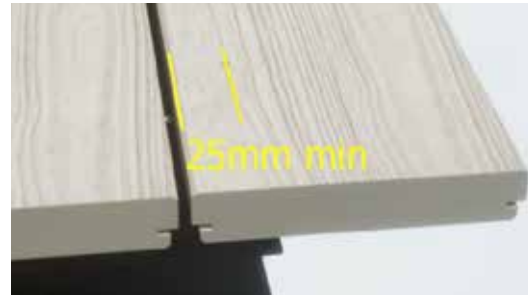
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B Luxura Board installation

Mineral Composite Board Install

- 7.** The screw should be positioned no closer than 25mm from any edge of the board

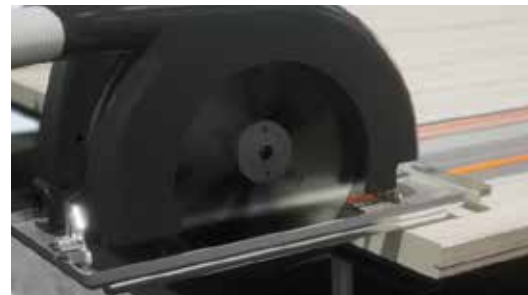


- 8.** To trim the boards down to the correct width use a straight edge (preferably a proprietary rail saw) and clamp into position at the required point



- 9.** Using a circular saw, cut along the straight edge to remove the unwanted material. Apply dust extraction vacuum to saw.

TIP! Always cut boards using a PCD (polycrystalline diamond) blade for maximum blade durability. The mineral composite is a very hard material and normal timber-cutting, or multi-material blades will quickly become blunt and overheat. Cut gently and don't force the blade when cutting.



Use of a lubricating wax will further extend the life of the blade.



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Enjoy your finished deck

Please Note: Luxura mineral composite decking is made from natural materials and consequently slight colour variations between batches is usual and unavoidable.



C FAQ's

- 1. Q: What is the maximum spacings allowed between the substructure rails?**
A: 490mm centres between the rails. This allows for the safe domestic loading of 2kN (approx. 200kgs) point load in the centre of the board.
- 2. Q: What is the maximum overhang from the last substructure rail to the end of the board.**
A: Maximum overhang is 100mm
- 3. Q: What is the minimum construction height of the substructure rail system?**
A: Box rail and cleat system can achieve a minimum of 35mm. (see technical data sheets for further information).
- 4. Q: What is the maximum height that can be achieved.**
A: Using the BoxRail system heights of up to 200mm can be achieved. For taller heights we can help you design structures up to 1metre high. Talk to our team for more information.
- 5. Q: What is the maximum recommended joist overhang from a pedestal to the end of the joist.**
A: Maximum recommended overhang is 250mm.
- 6. A: How are minor damages or scratches to the boards repaired.**
Q: Minor scratches can be removed using by lightly sanding the surface with abrasive paper and then apply a coating of LuxuraSeal with a soft lint-free cloth. Chips or heavy surface damage may require boards to be replaced or the damaged section cut off the board length.
- 7. Q: Do cut edges need to be sealed or treated in any way?**
A: No, the high-density composite does not need to have any cut edges sealed or treated.
- 8. Q: Do we need to allow any gaps between boards when abutting them end to end to allow for expansion and contraction?**
A: No. Boards can be directly abutted. Luxura Mineral Composite decking is an inert material and does not expand and contract with temperature changes.



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D Care & maintenance

Congratulations! You are lucky enough to have a **Mydek Luxura®** Non-Combustible Decking System!

Your decking is made from a unique mineral composite and has been produced and tested to the highest standards of the industry. This mineral composite will never burn, rot, rust or warp. With simple and regular care so you can relax in the knowledge that your deck is safe and sound for many years to come.

Here's a few simple do's and don'ts to ensure your decking remains in optimum condition.



Do:



Keep your deck free of dirt and debris by regular sweeping (at least every 2 weeks) with a soft brush.



Try to lift furniture or planters rather than drag them across the deck surface.



Wash your deck down regularly with clean water and a mild detergent if required. We recommend a minimum of 2 times a year. Clean, wet surfaces can be allowed to air dry or can be wiped clean with a soft cloth.



Check your decking carefully once a year to ensure no fixings are working loose, and simply tighten them using the appropriate driver bit if necessary.



Use furniture with rubber or plastic feet to prevent unnecessary scratching of the decking surface.



Use your balcony and deck safely and enjoy!

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Don't:



Use sharp or abrasive materials to clean your deck (e.g. wire wool, abrasive papers or scrubbing tools). This may cause scratching of the coating which will affect the appearance.



Use furniture with metal feet which can scratch the decking if dragged across the surface.



Use abrasive salt grit for de-icing purposes. Instead, use easily soluble salt.



Use oil/wax sealants, coatings, or polishes on the decking as this may cause the surface to become slippery, especially when wet.



Use aggressive acid or alkaline chemical to clean your deck.



If:

Scratches or other surface damage: if your decking becomes damaged or scratched, minor scratches or damage may be removed using a medium grit abrasive paper. Damaged deck boards may be removed and replaced if necessary but always check with your building manager or landlord if you live in a multi-occupancy apartment block. MyDek accepts no responsibility for the unsafe removal of deck boards from balcony environments. If in any doubt please Contact Us to ask for advice.

If there seems a colour variation in the boards after the installation, we recommend that the boards are jet washed down to remove any surface dust or dirt before handing them over to the client, ideally using one of the following recommended cleaning fluids: Delphis Eco Patio and Stone Cleaner or Delphis Eco Multi-Purpose Cleaner. We also recommend that the boards are stored inside or in a dry location to reduce the variation of colour due to moisture content.

Loses its stain resistance: Your Luxura decking is impregnated with a waterbased sealant solution which should last for many years. Whilst not essential, we recommend applying a coat of LuxuraSeal solution every three years or as desired to maintain the deck in optimum condition. This waterbased impregnation is fast, simple to apply and easy to apply. Contact us for advice or help on sourcing LuxuraSeal.



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E Safety information

Luxura is an article within the meaning of REACH (REGULATION (EC) No 1907/2006) and CLP (REGULATION (EC) No 1272/2008). SDSs do not have to be provided for articles. Moreover this article, for which safety information is given, does not contain substances of which the use is restricted by the Commission or substances on the Candidate List of Substances of Very High Concern for Authorization. Luxura has been tested by third party accredited laboratories to verify that there are no substances of very high concern up to and including The Twenty-third List (4 SVHC Released in Jun, 2020). MyDek has decided to supply this supplementary information to assist with first aid, exposure control, disposal and transport. This safety information supplies information regarding any unusual risks which may not normally be associated with work of this type and may not be obvious. This information is provided on assumption that users are competent and experienced in the installation of decking.

Section 1: Identification

Product Name:	Luxura
Type of Product	Decking Board
Main use:	Professional installation of decking
Supplier Details:	MyDek Limited 11 Arkwright Road Reading RG2 0LU
Emergency Number:	+44 (0) 3300 94 94 11

Section 2: Hazards

This product does not meet the criteria for the requirement of classification in any hazard class according to the CLP Regulation No (EC) 1272/2008 on classification, labelling and packaging

Other Hazards:	During cutting, drilling, sanding, etc, airborne dust can be released. As with most types of dust, excessive inhalation of dust may cause irritation of the bronchial tubes, eye irritation, irritation of mucous membranes and skin irritation.
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Section 3: Composition Information

Substances:	N/A
Mixtures:	N/A
Article:	Calcium silicate hydrates, synthetic fibres, mineral fillers.

Section 4: First Aid Measures

First-aid measures general:	Seek medical attention if ill effect or irritation develops
First-aid measures after inhalation:	May cause irritation to the respiratory tract and to other mucous membranes. Remove to fresh air and drink water
First-aid measures after skin contact:	Wash with plenty of soap and water
First-aid measures after eye contact:	Do not rub the eye. Rinse immediately with plenty of water. If eye irritation persists: Get medical attention.
First-aid measures after ingestion:	Ingestion unlikely due to product form. Do not induce vomiting. Rinse mouth. Drink plenty of water.

Section 5: Firefighting Measures

Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Fire hazard:	The product is non-combustible.

Section 6: Control Measures

General Measures:	Use dust extraction when cutting or machining with the correct filter. Avoid breathing dusts. Avoid eye and skin contact. Dampen down any dust or use vacuum cleaner with correct filter.
Personal Protective Equipment:	Use suitable respiratory protection and goggles when cutting or machining the material. Use safety boots and gloves when handling the material.
Emergency Procedures:	Stop works and move to safety, dampen dust.

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Section 7: Handling and Storage

Precautions when processing:

Use dust extraction when cutting or machining with the correct filter. Avoid breathing dusts. Avoid eye and skin contact. Dampen down any dust or use vacuum cleaner with correct filter.

Use suitable respiratory protection and goggles when cutting or machining the material.

Precautions for safe handling:

- Always wear gloves when handling boards.
- Lift using a suitable technique, and where possible using suitable lifting aids.
- Use lifting aids and Personal Protective Equipment as set out in the risk assessment and method statement.

Hygiene:

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Storage:

- Do not store boards in damp or exterior conditions, this can cause mould build-up between the panels which can cause an additional hazard. Instead store boards undercover in a well ventilated area.
- Do not store boards leaning upright, they can fall and cause injury, instead boards must be stored flat, supported along their entire length such as on a suitable pallet.
- Do not overload pallets, failure of a pallet can cause the stack to topple. Stack a maximum of 2 metres high in total and within the capacity of the pallet.
- Pallets must be level at all times.
- Care must be taken to ensure that boards do not fall off the pallet when releasing pallet strapping.

Section 8: Physical Properties

Physical state:

Solid

Appearance:

Board.

Colour:

Grey, Brown

Odour:

None.

Density:

≈ 1500 kg/m³



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Section 9: Ecological Information

Ecology: No known effects

Section 10: Disposal

Waste: Recycle where facilities exist. Treat as construction waste.

Packaging: Recycle where facilities exist. Dispose in a safe manner, in accordance with local and national regulations.

Section 11: Regulatory Information

NIOSH 9002:1994, EU REACH Regulation No 1907/2006 No SVHCs from list up to and including The Twenty-third List (4 SVHC Released in Jun, 2020).

Disclaimer of Liability

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About MyDek®?

The **MyDek** team harnesses a huge range of experience, creativity, passion and drive to make balconies and terraces safe places to be. Drawn from different areas of the construction industry our team brings together extensive knowledge of specification, technical compliance and outstanding innovation to create a non-combustible decking system that delivers on our mantra of Safe. Smart. Sustainable. **So relax, you're in safe hands.**

Safe. Smart. Sustainable.

Our ethos runs through everything we do. We're passionate to ensure that our products reflect these values and make a significant contribution to residential balconies and terraces as safe and enjoyable places.

Quite simply, you're going to love this.

The philosophy that supports all our products



Safe.

- Class A2-s1,d0 fire rated non-combustible aluminium
- Non-slip surface coating gives PTV rating of 59
- Durable alloy won't rust or rot
- 30 year warranty



Smart.

- Attractive board design in range of colours
- Lightweight material reduces structural loads on buildings
- Fast fit system saves time and money on installation



Sustainable.

- Made from recycled aluminium and is 100% recyclable.
- Low maintenance material gives 60 year service life
- Ready availability and easily recycled ensuring a low whole-life cost.

MYDEK®
Non-combustible decking systems

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