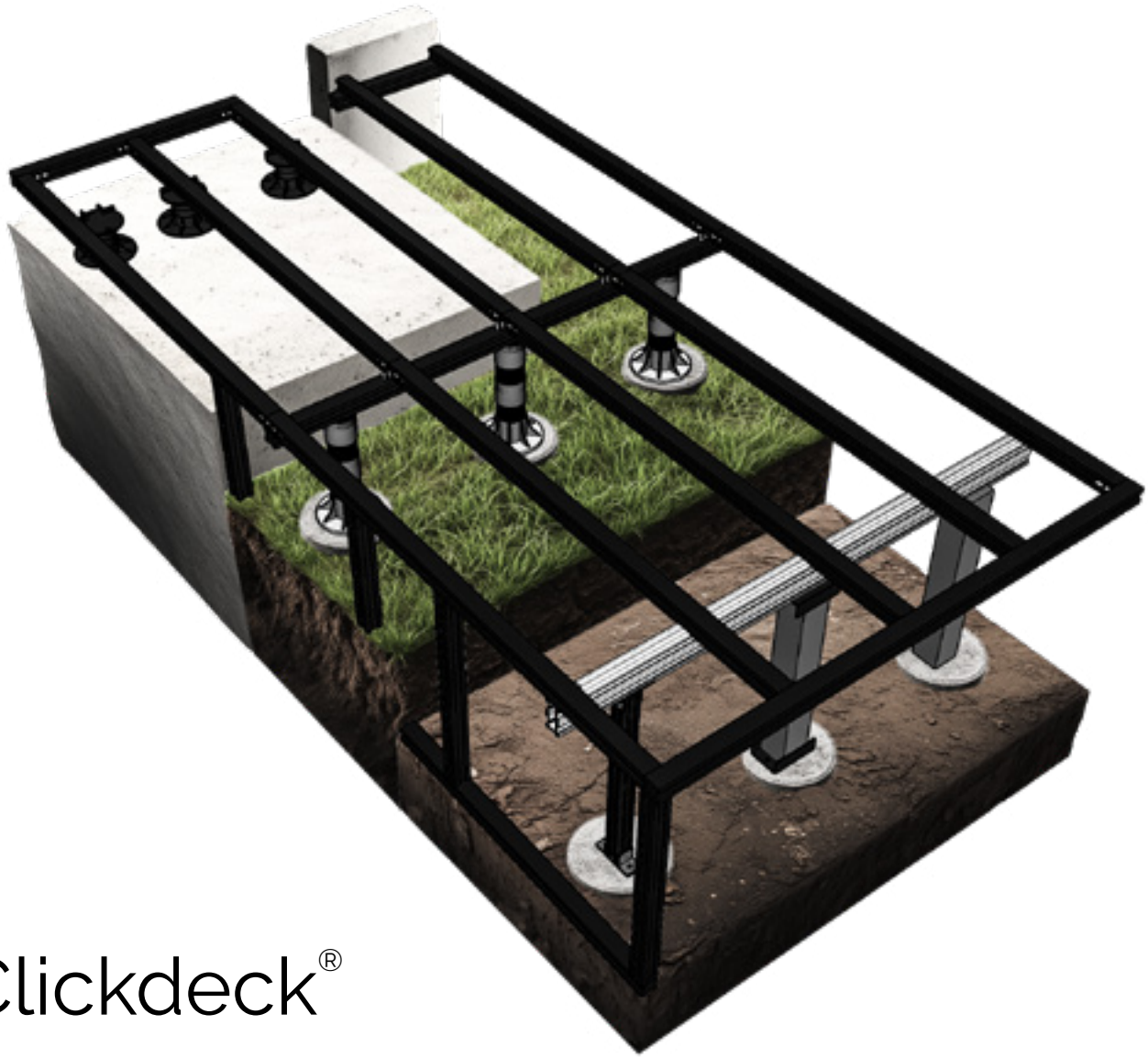
BY EXOLUX

CLICKDECK®

MODULAR DECKING SYSTEM



Clickdeck® Design Guide

The Ultimate Modular Aluminium Subfloor System

Product by:

EXOLUX

DECKING PRODUCTS

Clickdeck®
Design Guide

INDEX

BY EXOLUX
CLICKDECK®
MODULAR DECKING SYSTEM

What is ClickDeck?

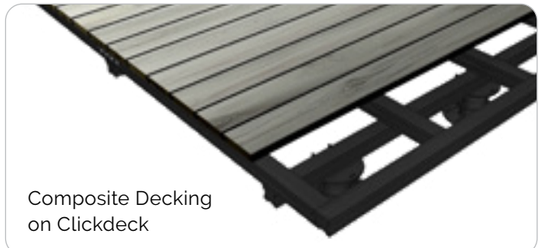
ClickDeck is an innovative modular decking system designed for quick and easy installation. It is suitable for various applications, including **composite decking**, **timber decking**, **raised pavers**, and **artificial turf**. ClickDeck provides a durable and adaptable subfloor system that simplifies the decking process while maintaining structural integrity.

Key Benefits:

Multi-surface capability
Adjustable pedestal system for varied heights
Corrosion-resistant aluminium framework
Quick assembly with pre-engineered connection components


Hardwood
on Clickdeck


Tiles / Paver
on Clickdeck


Composite Decking
on Clickdeck


Artificial Turf
on Clickdeck

INSTALLATION REQUIREMENTS

Tools & Safety Precautions

Tools Needed:

Tape measure

Spirit level

Drill

Multi-material or aluminium blade

Types of Saw Suitable for Installation (Must Use Metal Cutting Blades or Discs):

- Drop Saw – Ideal for precise cuts on aluminium and composite materials

PPE: Gloves, safety glasses, ear protection

Safety Guidelines:

Always wear appropriate PPE.

Ensure the foundation is level and structurally sound.

Avoid overtightening hex screws (Max Torque: 39 Nm).

RECOMMENDED TOOLS

For best results, we recommend using the following tools:








JOIST & BEARER INSTALLATION

CLICKDECK JOIST / BEARER PROFILES

	DIMENSIONS (MM)	FINISH	STOCK LENGTHS
28PROFILE	28H x 50W	POWDERCOATED MONUMENT	3.6M / 4.8M / 6.0M
55PROFILE	55H x 55W	POWDERCOATED MONUMENT	2.4M / 3.6M / 4.8M / 6.0M
110PROFILE	110H x 50W	MILL FINISH	3.6M / 4.8M / 6.0M
150PROFILE	150H x 50W	POWDERCOATED MONUMENT	6.0M
200PROFILE	200H x 50W	POWDERCOATED MONUMENT	6.0M

Minimum height achievable: 30mm (Top of Frame)

BASICS SPAN TABLE

PROFILE	JOIST SPAN (RECOMMENDED)	BEARER SPAN (RECOMMENDED)	CANTILEVER (MAX)
28 x 50	700mm	600mm	200mm
55 x 55	1200mm	1200mm	250mm
110 x 50	1900mm	1700mm	400mm
150 x 50	2700mm	2300mm	200mm
200 x 50	3400mm	2700mm	300mm

ALUMINIUM PROFILES (JOIST / BEARERS)

28PROFILE

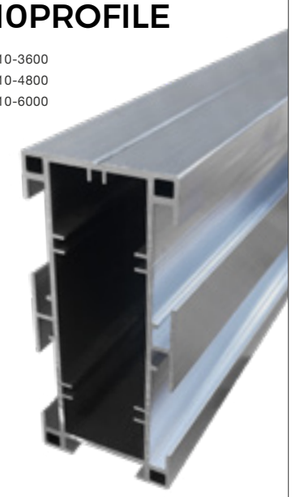
P28-3600
P28-4800
P28-6000

55PROFILE

P55-2400
P55-3600
P55-4800
P55-6000

110PROFILE

P110-3600
P110-4800
P110-6000



150PROFILE

P150-6000

200PROFILE

P200-6000

DECK SUPPORTS & FOUNDATIONS

Types of Deck Supports:

Adjustable Pedestal System (10mm - 440mm height range)

ClickDeck Aluminium Posts (55mm profile)

100 x 100mm Profile – Heavy-duty support for commercial applications, suitable for heights up to 2000mm

Steel Posts / Timber Posts / Concrete Footings

Load & Engineering Considerations:

Residential decks under 1m: 2kPa live load, 0.2kPa dead load

All additional loadings require site-specific engineering; engineered span tables from 2kPa to 5kPa are available.

DECK SUPPORT OPTIONS

POST ASSEMBLY

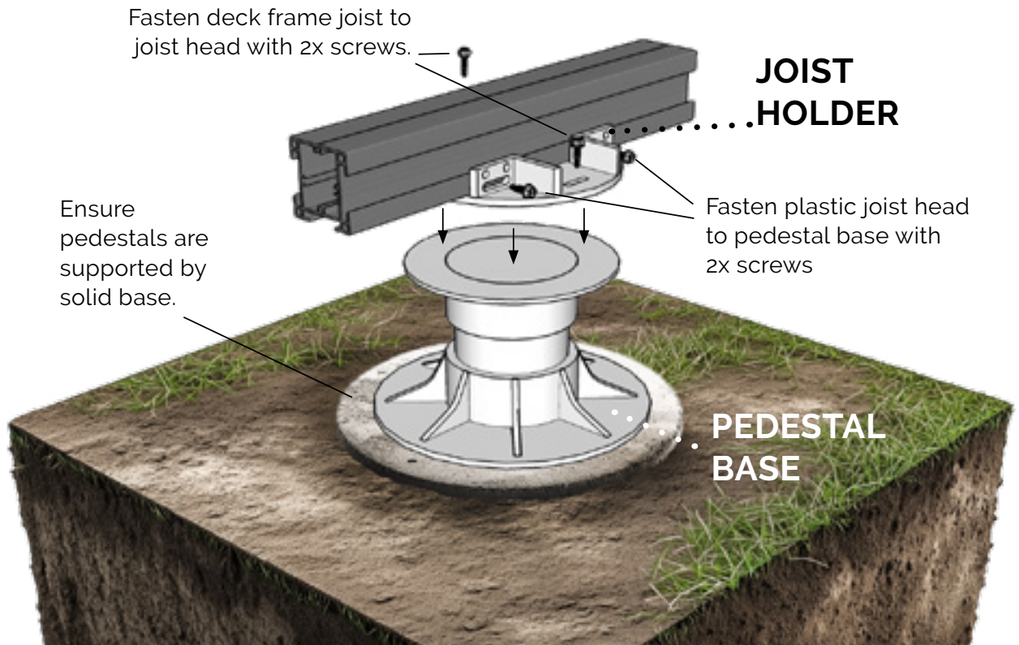
55POSTBK

55 PROFILE POST BRACKET

100POSTBK

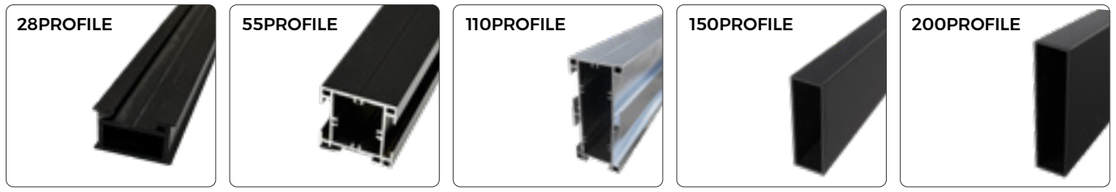
100 X 100 PROFILE POST BRACKET

MODEL NO.	Height Range	Finished Floor Heights (includes 25mm deckboard + profile combination below)				
		28 JOIST ONLY	55 JOIST ONLY	55 JOIST 55 BEARER	55 JOIST 110 BEARER	110 JOIST 110 BEARER
FX 0	10-25mm	63-78	90-105	145-160	200-215	255-270
PP A	24-35mm	77-88	104-115	159-170	214-225	269-280
PP B	33-47mm	86-100	113-127	168-182	223-237	278-292
PP C	45-70mm	98-123	125-150	180-205	235-260	290-315
PP D	65-110mm	118-163	145-190	200-245	255-300	310-355
PP E	95-190mm	148-243	175-270	230-325	285-380	340-435
PPE + 1 EX	185-325mm	238-378	265-405	320-460	375-515	430-570
PPE + 2 EX	260-440mm	313-493	340-520	395-575	450-630	505-685
55PROFILE						
100 x 100mm PROFILE						



CONNECTION DETAILS

CLICKDECK PROFILE



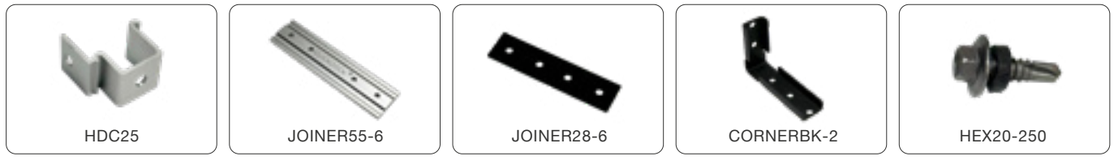
MAIN COMPONENTS

Corner Bracket: Angled connections, can be bent

Joiner: Extends joist lengths - 55 / 110 PROFILE & 28 PROFILE

Hold Down Clip: Secures joist to bearer

Hex Screws: M12, marine-grade coated, with EPDM washer



HOLD DOWN CLIP | JOINERS 55 / 110 PROFILE | JOINERS 28 PROFILE | CORNER BRACKET | HEX SCREWS

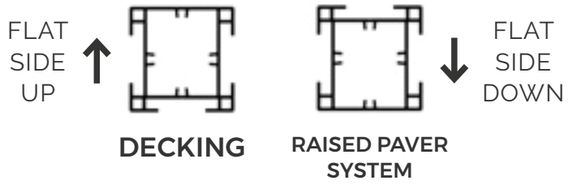
TILE SUPPORT ACCESSORIES

RETAINING CLIP | SPACER | RUBBER STRIP

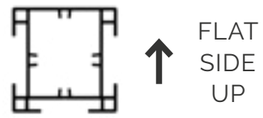
PROFILE ORIENTATION

Before starting the work, make sure to follow the correct ***profile orientation*** for the ***joist*** and ***bearer***. For decking, keep the joist flat side up, and for a raised paver system, place it flat side down. Ensure the bearer is always flat side up to maintain stability and proper installation.

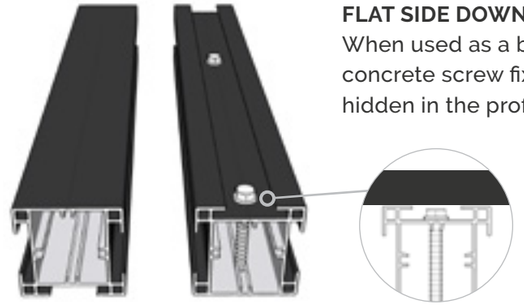
JOIST



BEARER

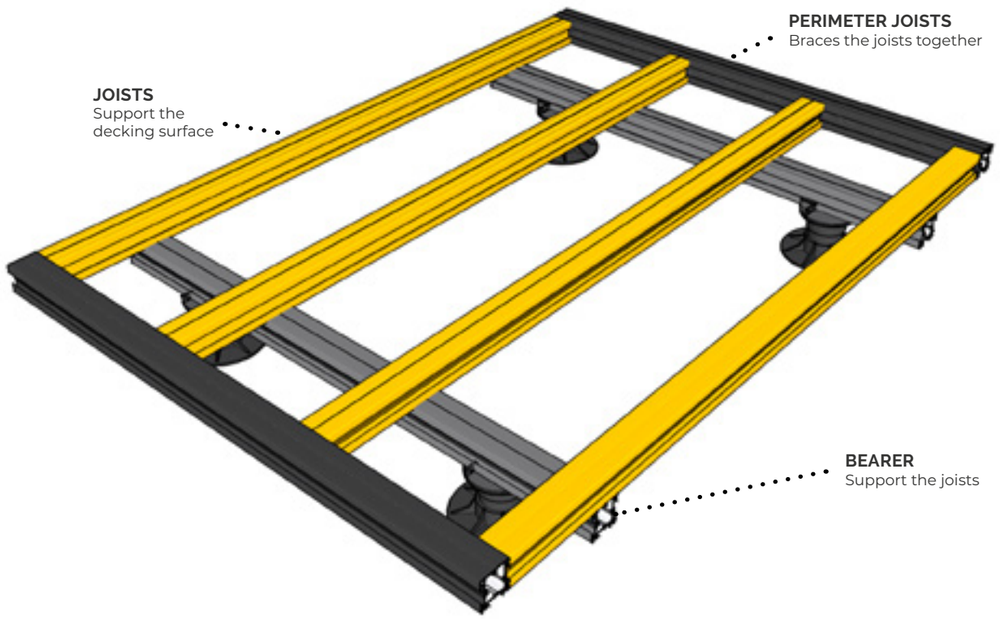


FLAT SIDE UP
Joist / Bearer
Most commonly used



FLAT SIDE DOWN
When used as a batten, concrete screw fixings can be hidden in the profile recess.

TERMINOLOGY



HARDWOOD DECKING

ClickDeck provides a stable and reliable base for hardwood decking, streamlining installation and removing the need for complex substructures. It delivers a strong, stylish, and durable outdoor surface.

Face Fixed with metal drilling deck screws

COMPOSITE DECKING

Compatible with most composite brands, ClickDeck simplifies installation. LuxDeck offers a premium, low-maintenance, and weather-resistant solution, perfect for Australian conditions.

Works with all hidden fastners and clipping system : eg KLEVAKLIP, CAMO

PAVER INSTALLATION

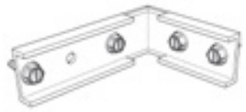
ClickDeck supports most structural paver brands for quick, level installation. LuxStone delivers a stylish, durable finish for patios, pathways, and gardens.

SPACER

RUBBER STRIP

CORNER BRACKET

The main bracket for angled connections, adjustable for non-standard angles, compatible with 28, 55 & 110 profiles.

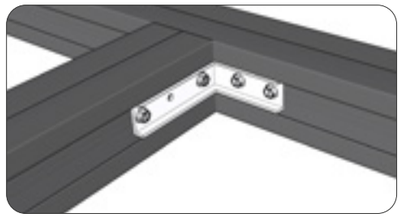


4 Screws
Right Angles

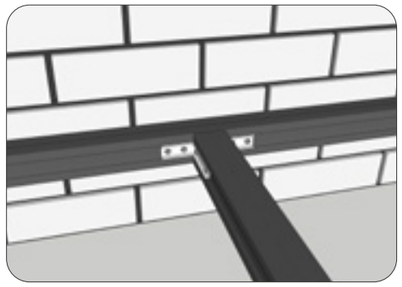
5 Screws
Bent Angles

28/55PROFILE

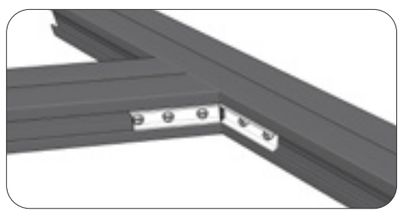
Joist to Perimeter joist
1 Per Connection



Joist to In-line bearer
2 Per Connection

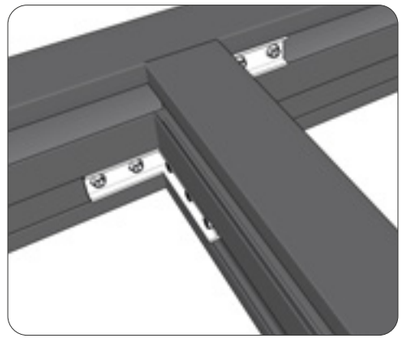


Joist to angled perimeter joist
Bent to create angles
5 Screws Required

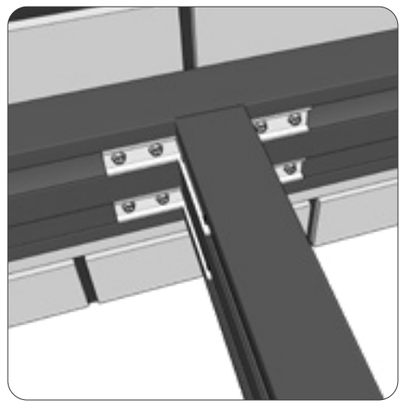


110PROFILE

Joist to Perimeter joist
2 Per Connection

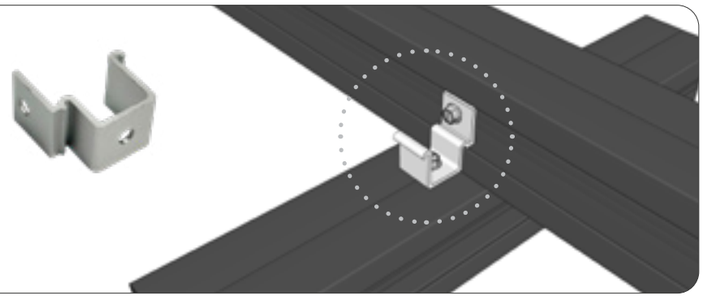


Joist to Inline bearer
4 Per Connection



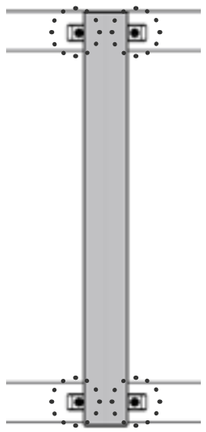
HOLD DOWN CLIP

Used to fasten the joist to the bearer.

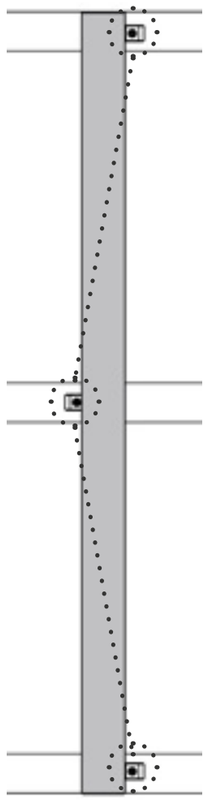


55PROFILE

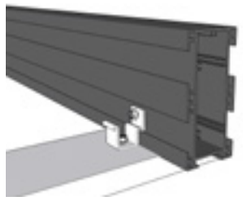
Single Span
(Over 2 bearers only)
HDC Both Sides



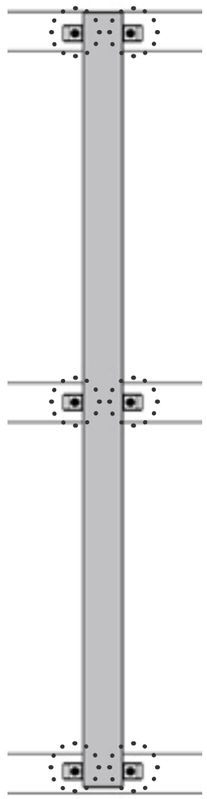
Multi Span
(Over 3+ bearers)
HDC Alternating Sides



110PROFILE



Single / Multi Span
HDC Both Sides



JOINER

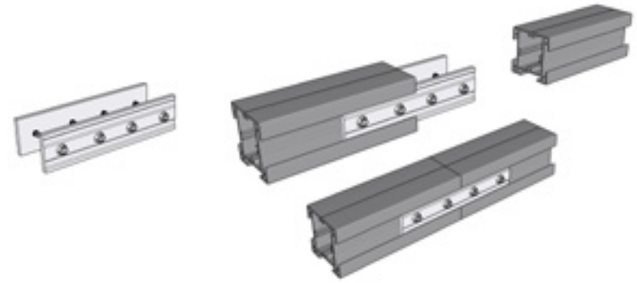
Used to extend and join the lengths of the aluminium joists.

28PROFILE

2x Joiners per join
4x Hex Screws per Joiner

55PROFILE

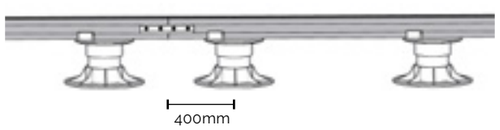
2x Joiners per join
4x Hex Screws per Joiner



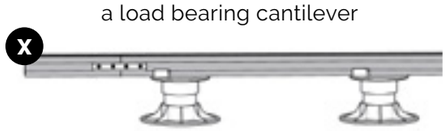
110PROFILE

4x Joiners per join
4x Hex Screws per Joiner

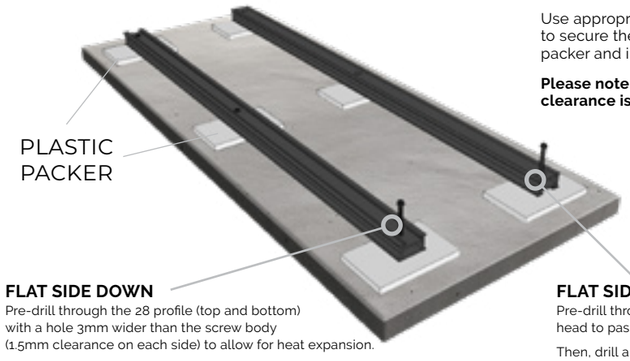
Recommended to have joiners within 400mm of supports



Joiners should **not be** placed on a load bearing cantilever



FASTENING TO CONCRETE SLAB



Use appropriate concrete fixings to secure the 28profile through the packer and into the concrete slab.

Please note: Minimum 2mm clearance is required

CONCRETE SCREW
(ordered by others)

PREDRILL 28PROFILE
(**Max** 13mm diameter hole)

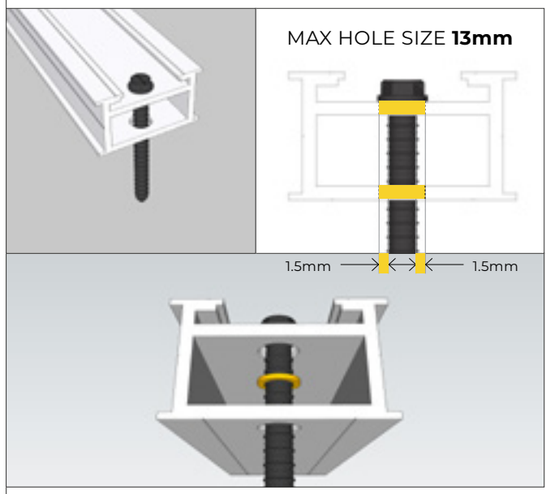
FLAT SIDE DOWN
Pre-drill through the 28 profile (top and bottom) with a hole 3mm wider than the screw body (1.5mm clearance on each side) to allow for heat expansion.

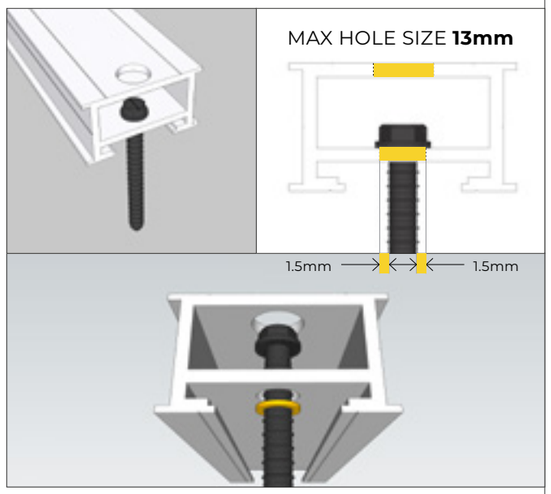
Place the profile on the concrete with plastic packers underneath (min. 2mm clearance). Drill through the profile and packers into the concrete, then fix with concrete screws.

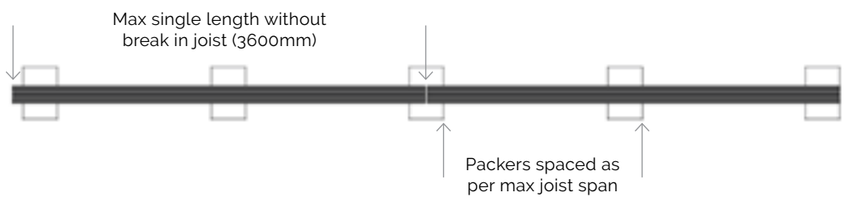
FLAT SIDE UP
Pre-drill through the top of the 28 profile with a hole wide enough for the screw head to pass through and allow access for a hex driver. **(max hole size: 13mm)**

Then, drill a second hole through the bottom of the profile, 3mm larger than the screw body (1.5mm clearance on each side) to allow for heat expansion.

Place the profile on the concrete with plastic packers underneath (minimum 2mm clearance). Drill through the profile and packers into the concrete, then secure with concrete screws.



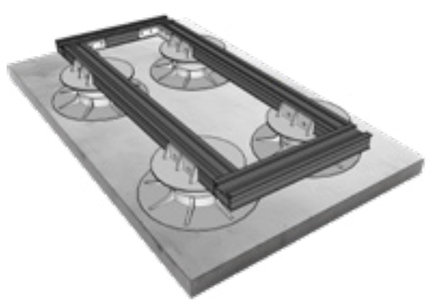




USING PEDESTAL SYSTEM

We recommend fastening pedestals to substrate via fixings or appropriate adhesive.

Clickdeck pedestal system can be used to support the 28profile, its recommended to use perimeter joists to brace the frame.

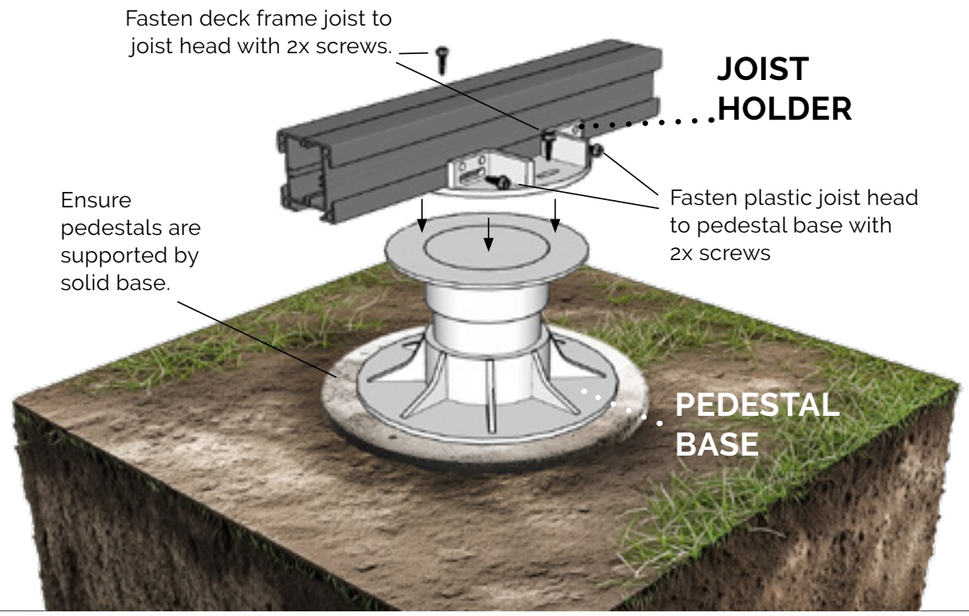


ON CONCRETE PAD FOOTINGS

PEDESTALS ON CONCRETE PAD FOOTINGS

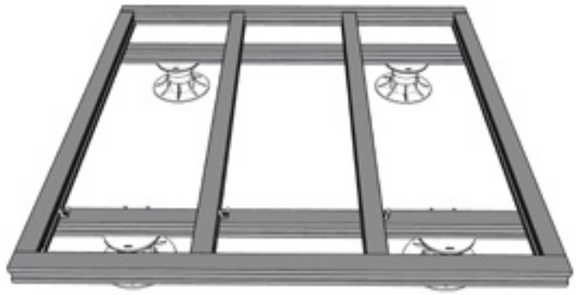
Pad footing (Typical detail)
350mm Diameter x Depth
(Dependent on soil type)

POWER PEDESTAL ASSEMBLY



TYPICAL LAYOUT OPTIONS

JOIST ***ON*** BEARER

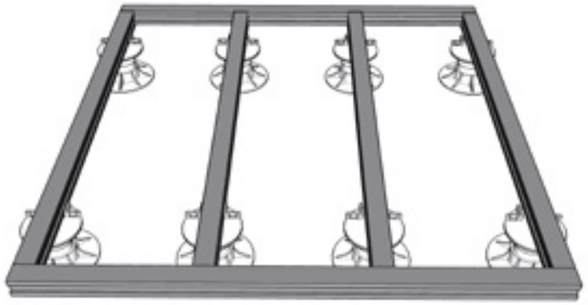


Construction:
Joists are placed on top of bearers, forming a two-layer system.

Benefits:

- Provides a stronger structural foundation, allowing for wider spans with fewer support points.
- Helps distribute load more efficiently, reducing stress on individual joists.
- Ideal for elevated decks or where additional structural integrity is needed.
- Allows for better airflow beneath the deck.

JOIST ***ONLY***



Construction:
Joists are supported directly by pedestals or supports, without separate bearers.

Benefits:

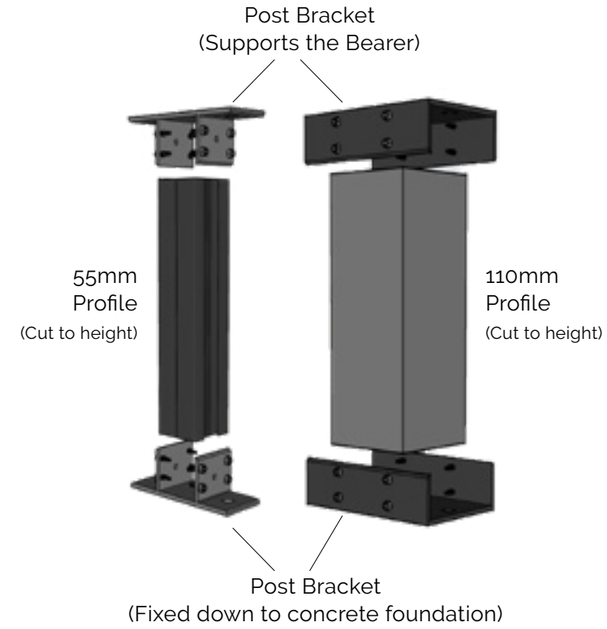
- Lower profile solution, making it ideal for areas with limited height clearance.
- Simplifies installation by reducing the number of components.
- More cost-effective for ground-level or low-rise decks.
- Requires more support points (closer pedestal spacing) to compensate for the lack of bearers.

WHICH ONE TO CHOOSE?

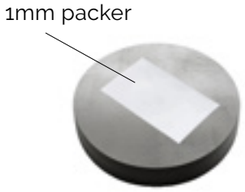
If height clearance is a concern, go for **Joist Only**.

If structural strength and wider spans are priorities, **Joist on Bearer** is the better option.

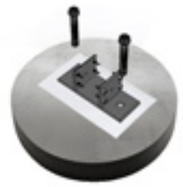
CLICKDECK POST ASSEMBLY



Suitable structural concrete foundation

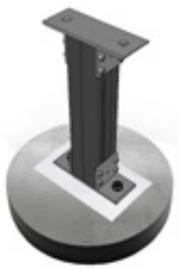


Insulating packer or similar to provide barrier between concrete and aluminium bracket must be used



Using suitable masonary fixings attach post bracket to concrete foundation.

Insert 55mm Profile in bracket (Cut to desired height) secure profile with 8 hex screws



Secure top bracket with 8 hex screws

Using 2x Hold down clips (1 both sides) , fasten hex screws into post bracket.

TYPICAL FRAME LAYOUT OPTIONS BY HEIGHT

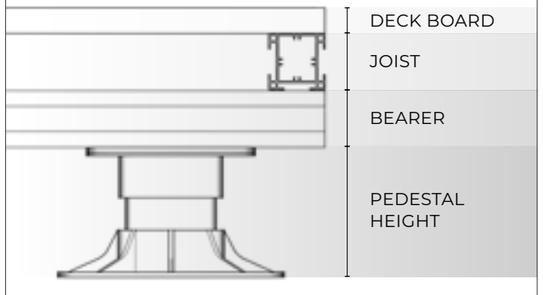
Compatible Pedestal & Post Kit Combinations

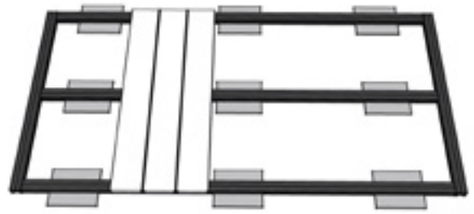
Height (mm)	Layout Name	Pedestal	55 Post Kit	100 Post Kit
51-60	28P Joist Only Layout	NONE	✗	✗
61-74	28P Joist Only Layout	FX0	✗	✗
75-87	28P Joist Only Layout	PPA	✗	✗
88-101	55P Joist Only Layout	FX0	✗	✗
102-110	55P Joist Only Layout	PPA	✗	✗
111-122	55P Joist Only Layout	PPB	✗	✗
123-148	55P Joist Only Layout	PPC	✗	✗
143-156	55P Joist ON 55P Bearer Layout	FX0	✓	✗
157-165	55P Joist ON 55P Bearer Layout	PPA	✓	✗
166-177	55P Joist ON 55P Bearer Layout	PPB	✓	✗
178-197	55P Joist ON 55P Bearer Layout	PPC	✓	✗
198-227	55P Joist ON 55P Bearer Layout	PPD	✓	✗
228-322	55P Joist ON 55P Bearer Layout	PPE	✓	✗
318-400	55P Joist ON 55P Bearer Layout	PPE1	✓	✗
401-500	55P Joist ON 110P Bearer Layout	PPE1	✓	✗
501-600	55P Joist ON 110P Bearer Layout	PPE2	✓	✗
601-682	110P Joist ON 110P Bearer Layout	PPE2	✓	✗
683-843	110P Joist ON 110P Bearer Layout	N/A	✓	✗
844-1400	110P Joist ON 110P Bearer Layout	N/A	✗	✓
1401-3000	110P Joist ON 110P Bearer Layout	N/A	✗	✗
>1400	110 / 150 / 200 Profile*	N/A	✗	✗

NOTE:

***For heights greater than 1400mm, you may use the 110, 150, or 200 profile, depending on the specific requirements of your project.**

As every job has different conditions and environments, please feel free to contact us. Our team will be happy to answer your questions and help you find the right solution.





28P JOIST ONLY LAYOUT

Low Height

Height: 51 - 87mm

55P JOIST ONLY LAYOUT

Medium-Low Height

Height: 88 - 148mm

55PROFILE JOIST ON 55PROFILE BEARER LAYOUT

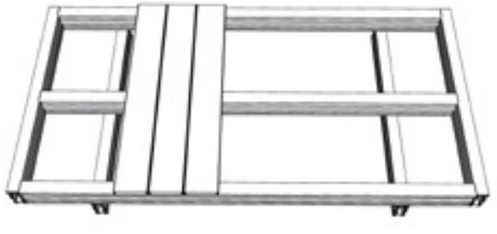
Medium Height

Height: 143 - 400mm

55PROFILE JOIST ON 110PROFILE BEARER LAYOUT

Medium-High Height

Height: 401 - 600mm

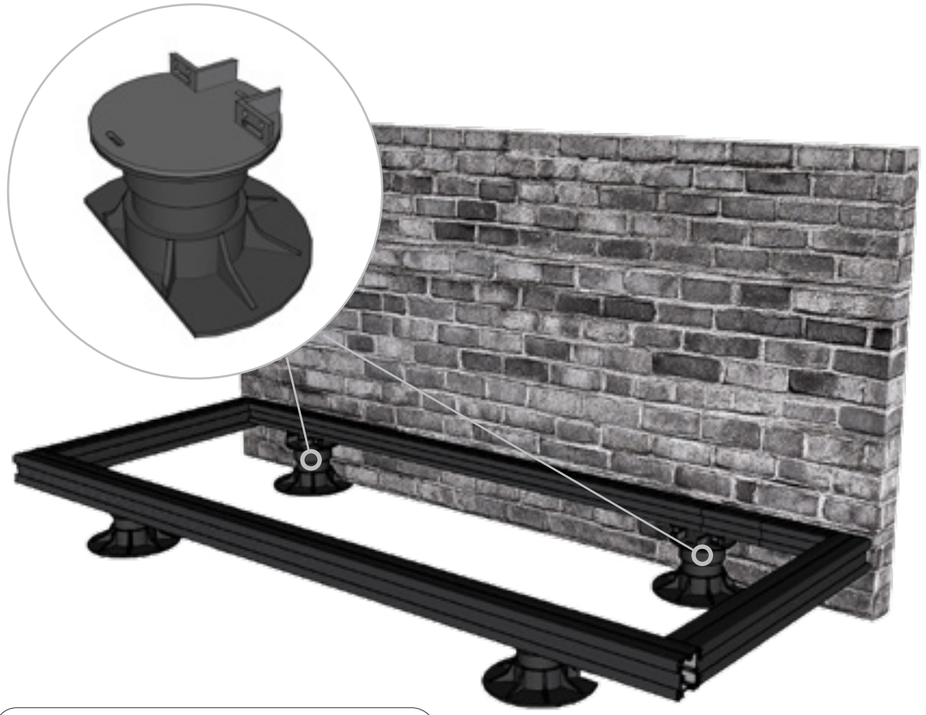


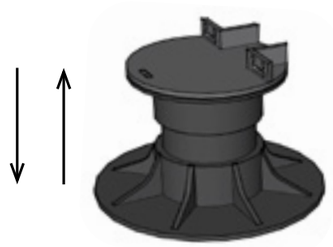
110PROFILE JOIST ON 110PROFILE BEARER LAYOUT

High Height

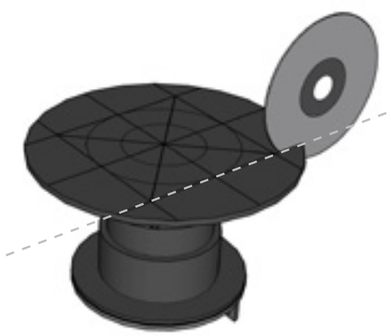
Height: 601 - 3000mm

PEDESTAL NEXT TO WALL / CUTTING PEDESTALS

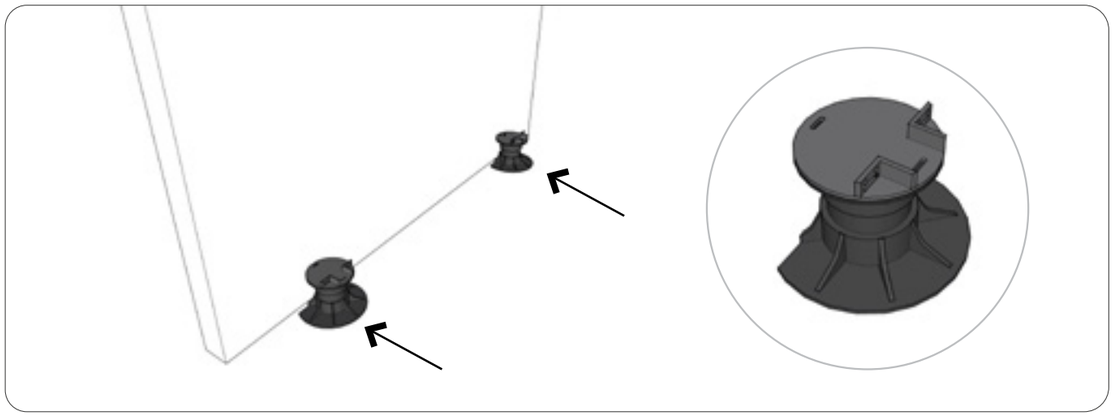




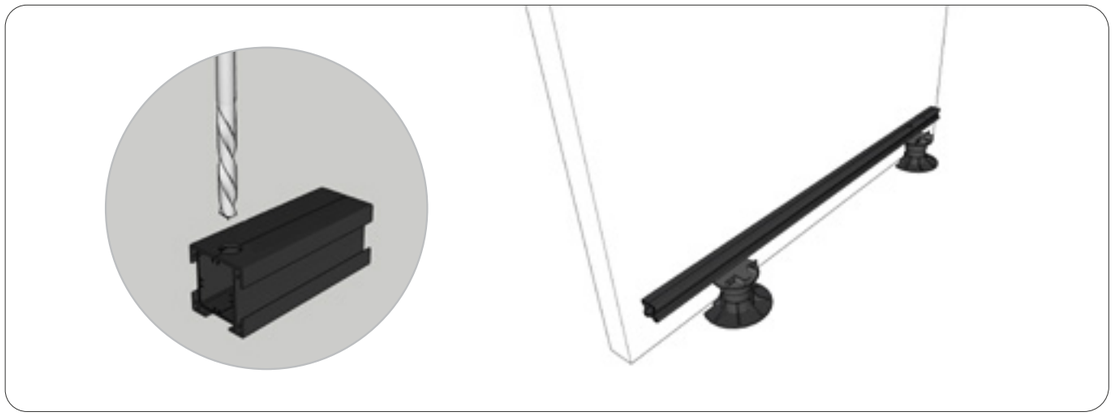
Turn the pedestal upside down



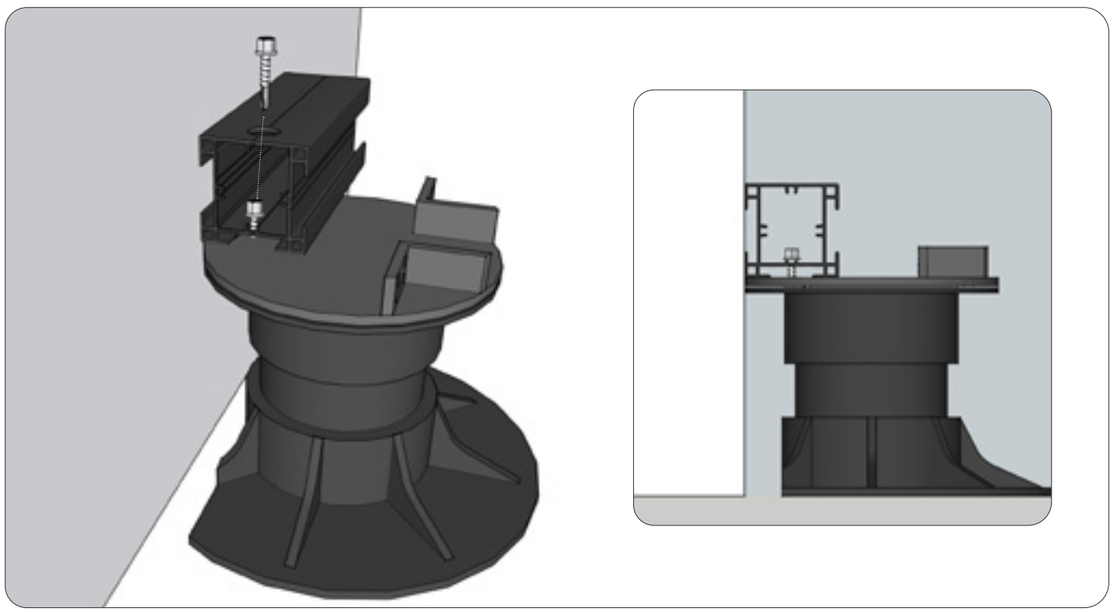
Step 1: Turn the pedestal upside down to locate the guide lines on its bottom. Choose a line and follow it to cut using a grinder or a jigsaw.



Step 2: Place the pedestals next to the wall with the cut side facing the wall.connection.



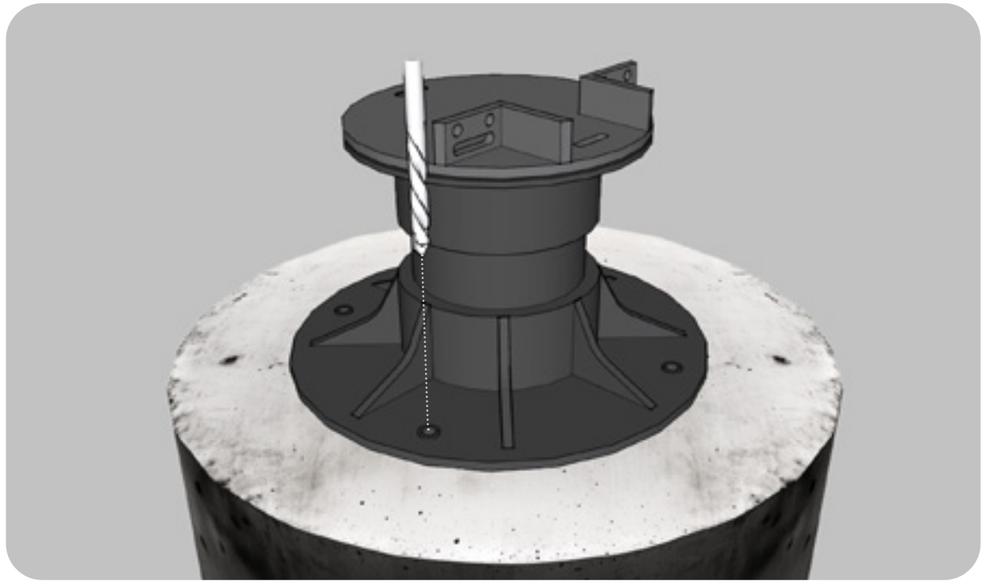
Step 3: Pre-drill a top-drilled hole larger than the hex screw. Then, place it on top of the pedestal. This hole allows the hex screw to secure the bottom of the profile and the pedestal.



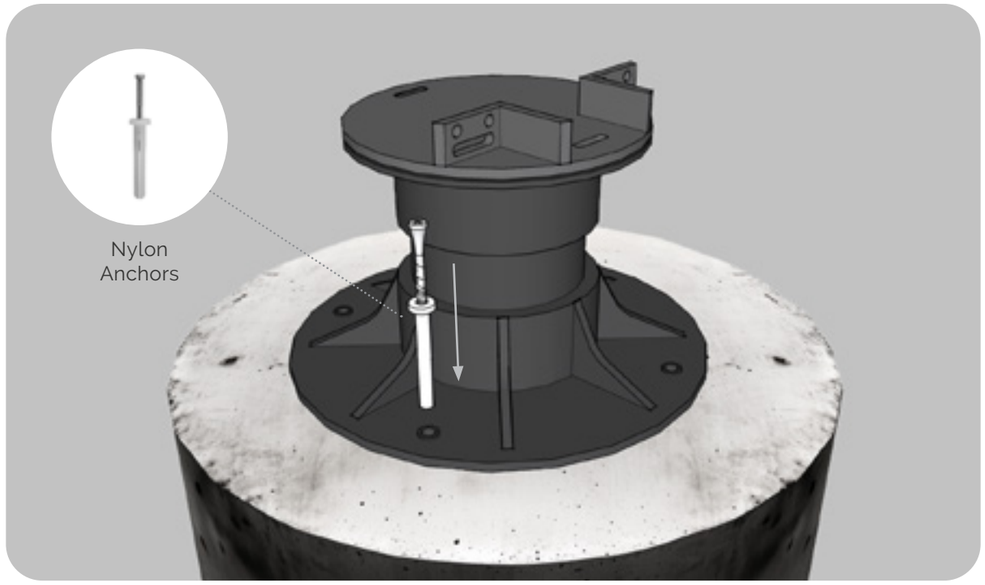
Step 4: Use the hex screw to secure the bottom of the profile to the pedestal.

FIXING PEDESTALS TO A CONCRETE SLAB
(USING NYLON ANCHORS)

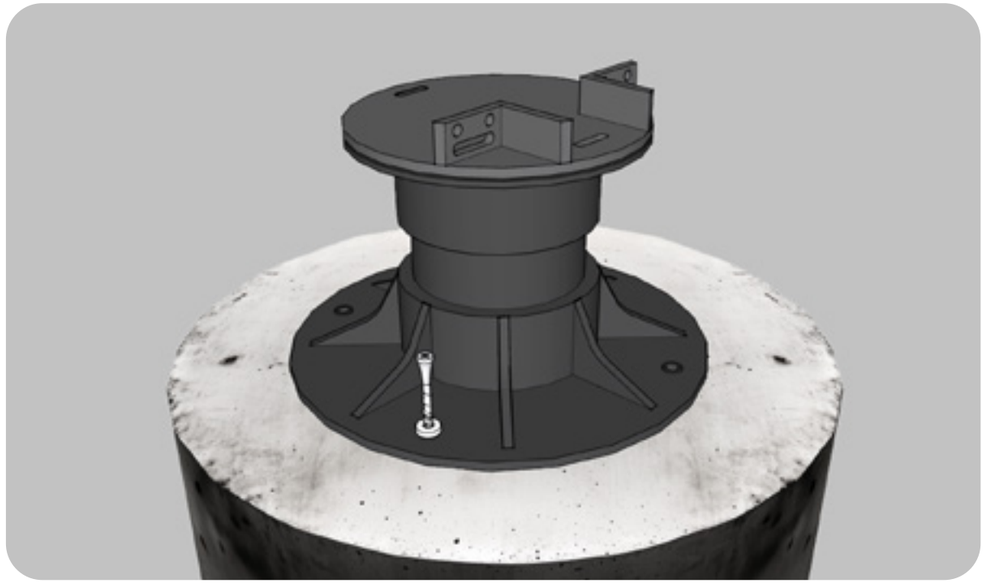
There are various ways to connect pedestals to a concrete slab. Here, we outline one method using Nylon Anchors. Please consult a professional to ensure you use the appropriate screws and tools for the job.



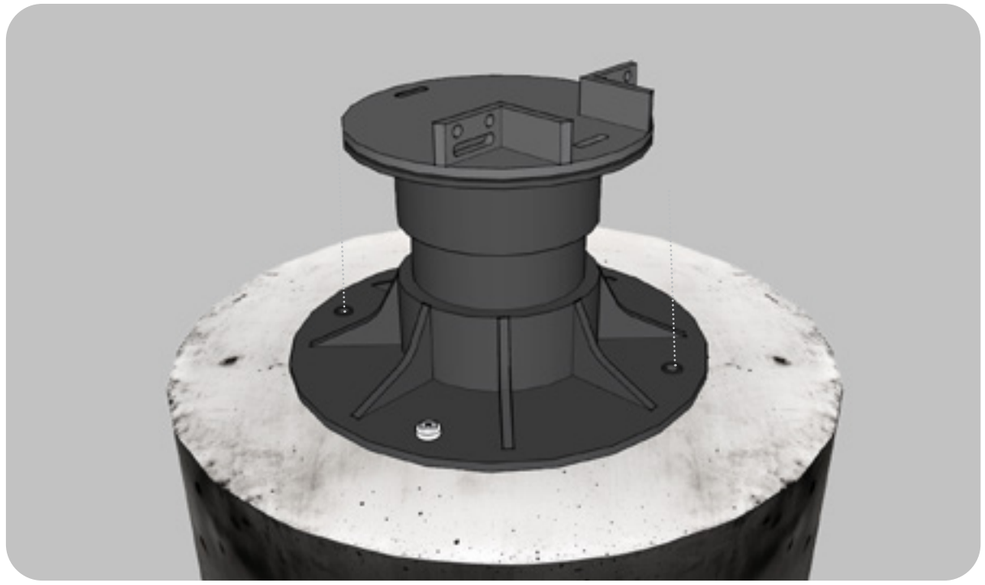
Step 1: Position the pedestal in the desired spot, then drill a hole through the pedestal into the concrete using a masonry drill bit.



Step 2: Insert the nylon anchor into the hole, pushing it in by hand or using a hammer.



Step 3: Once the nylon anchor is in place, use a hammer to drive it in until the screw is level with the surface.

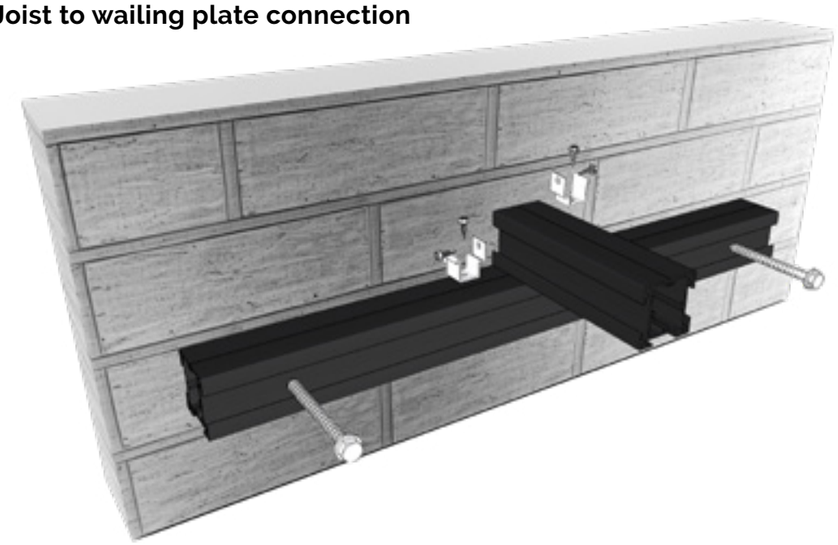


Step 4: Repeat these steps for the remaining holes.

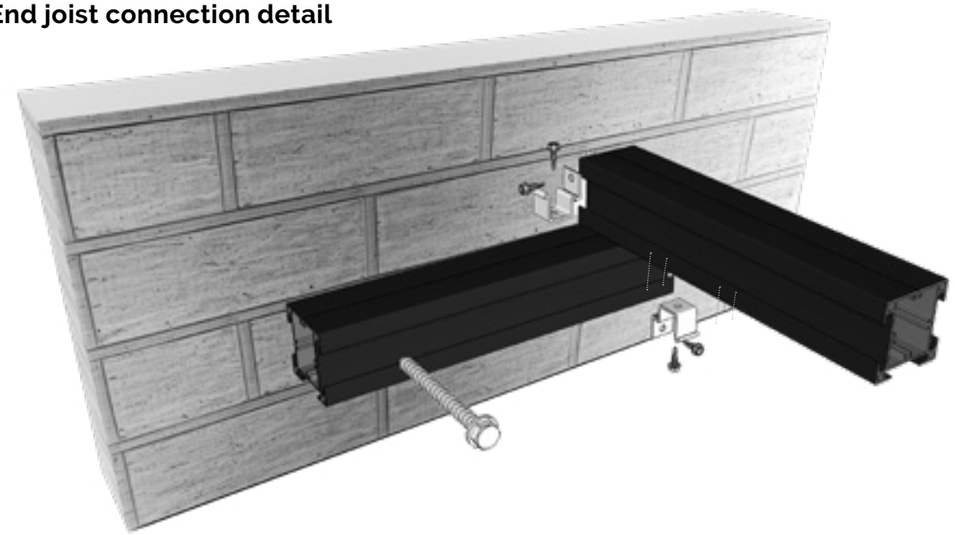
ATTACHING TO WALL
WAILING / LEDGER PLATE

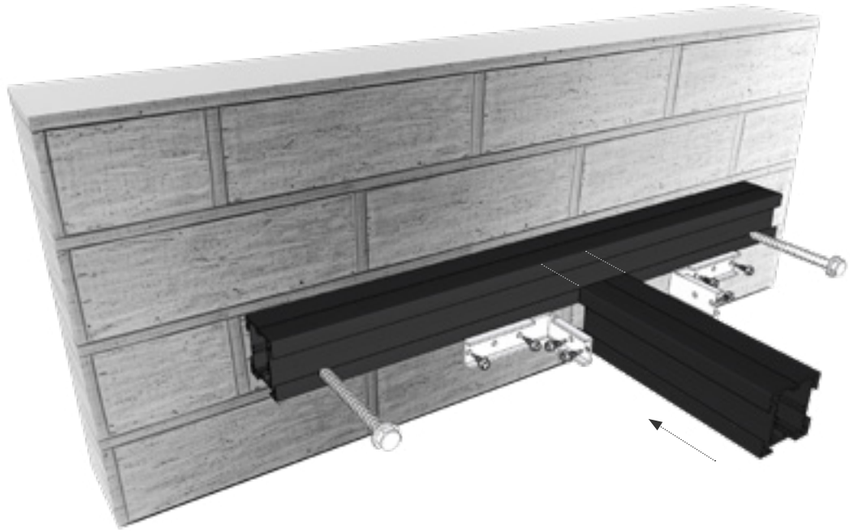
Guidelines for securely attaching a wailing or ledger plate to a wall, ensuring proper support and stability.

Joist to wailing plate connection

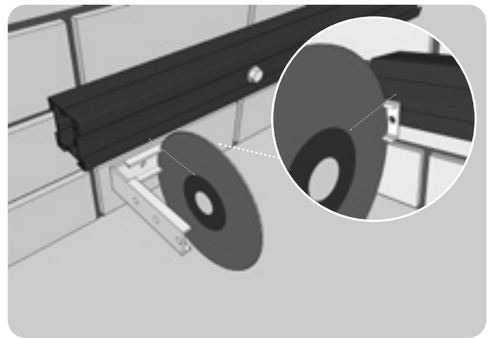


End joist connection detail

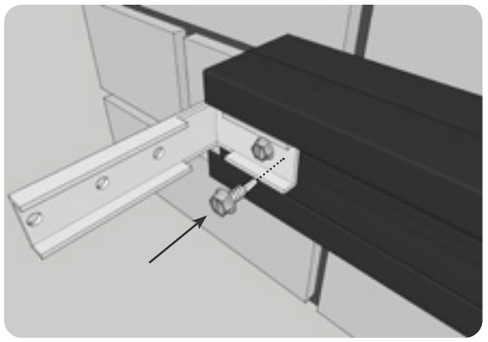




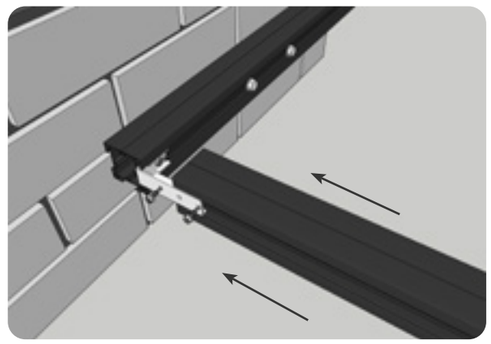
CORNER BRACKETS ON EDGE JOIST



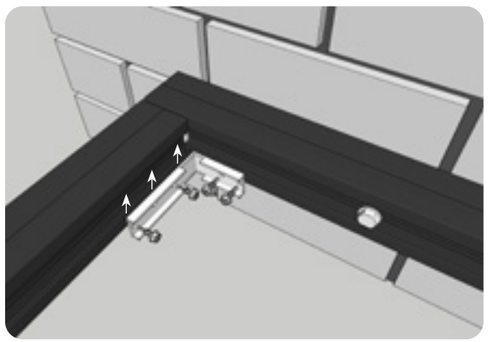
Step 1: Cut the corner bracket from the shorter side, trimming approximately 10mm.



Step 2: Screw the hex screw into the existing hole, then insert another hex screw next to it.



Step 3: Position the joist, slide the corner bracket into the outside channel of the profile, then screw it in place.



Step 4: Once the outside bracket is secured, place a new corner bracket on the inside of the corner and screw it in place.

CLICKDECK IS COMPATIBLE WITH STEEL & TIMBER POSTS.

Steel Post

Timber Post

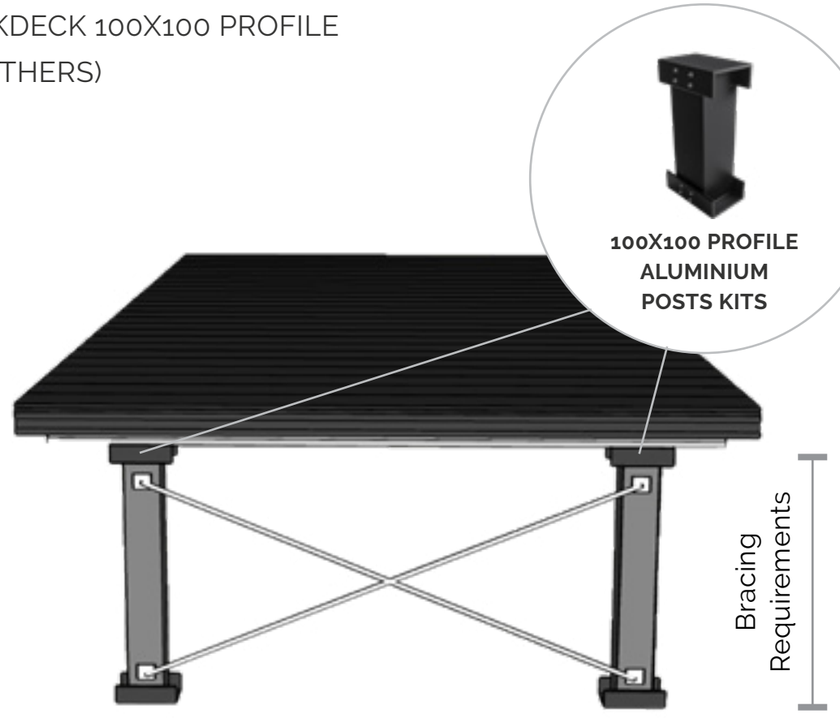
NOTE:

- All deck supports shall have a suitable structural foundation designed by a qualified professional.
- Rapid-set concrete or similar containing lime shall not be used when direct burying aluminum.
- Aluminium must be fully coated by barrier paint or similar and not be in direct contact with in-ground concrete.
- Maximum height for Aluminium post (55mm Profile) is 600mm from Ground level.
- Above 600mm height, a suitable timber or steel post maybe used.
- When attaching post bracket to concrete, an insulating packer or similar must be used to provide barrier between concrete and aluminium.
- It is recommended for the frame system to be attached to a perimeter wall or similar if possible.

BRACING REQUIREMENTS

CLICKDECK 100X100 PROFILE

(BY OTHERS)



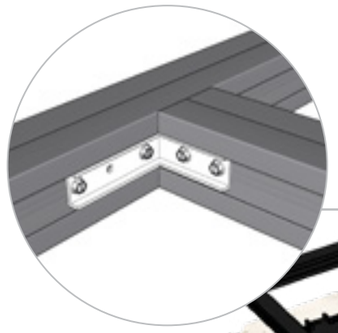
NOTE:

- Bracing Requirements (By Others) – Clickdeck 100x100 Profile
- All bracing required to ensure the stability and structural integrity of the Clickdeck 100x100 profile system must be designed, supplied and installed by others. Bracing must comply with relevant Australian Standards and local building regulations, and be suitable for the site-specific conditions, including wind loads, deck height and potential movement.
- Where possible, it is recommended that the frame system be fixed to a solid structure, such as a perimeter wall, to provide additional support.
- It is the responsibility of the installer or project engineer to ensure that adequate bracing is in place to support the deck system and maintain its long-term performance and safety.

THE CLICKDECK VERSATILE SOLUTION

CORNER BRACKET

Used to make connections
Can be bent for angled connections



Frame layout options by height available on page 21

ATTACHING TO WALL

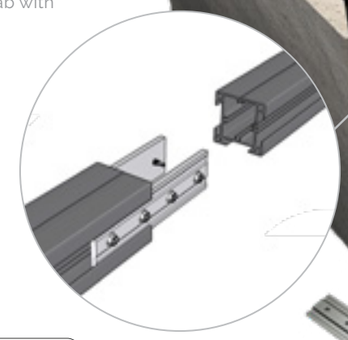
Wailing / Ledger plate

See page 27

LOW HEIGHT LAYOUT

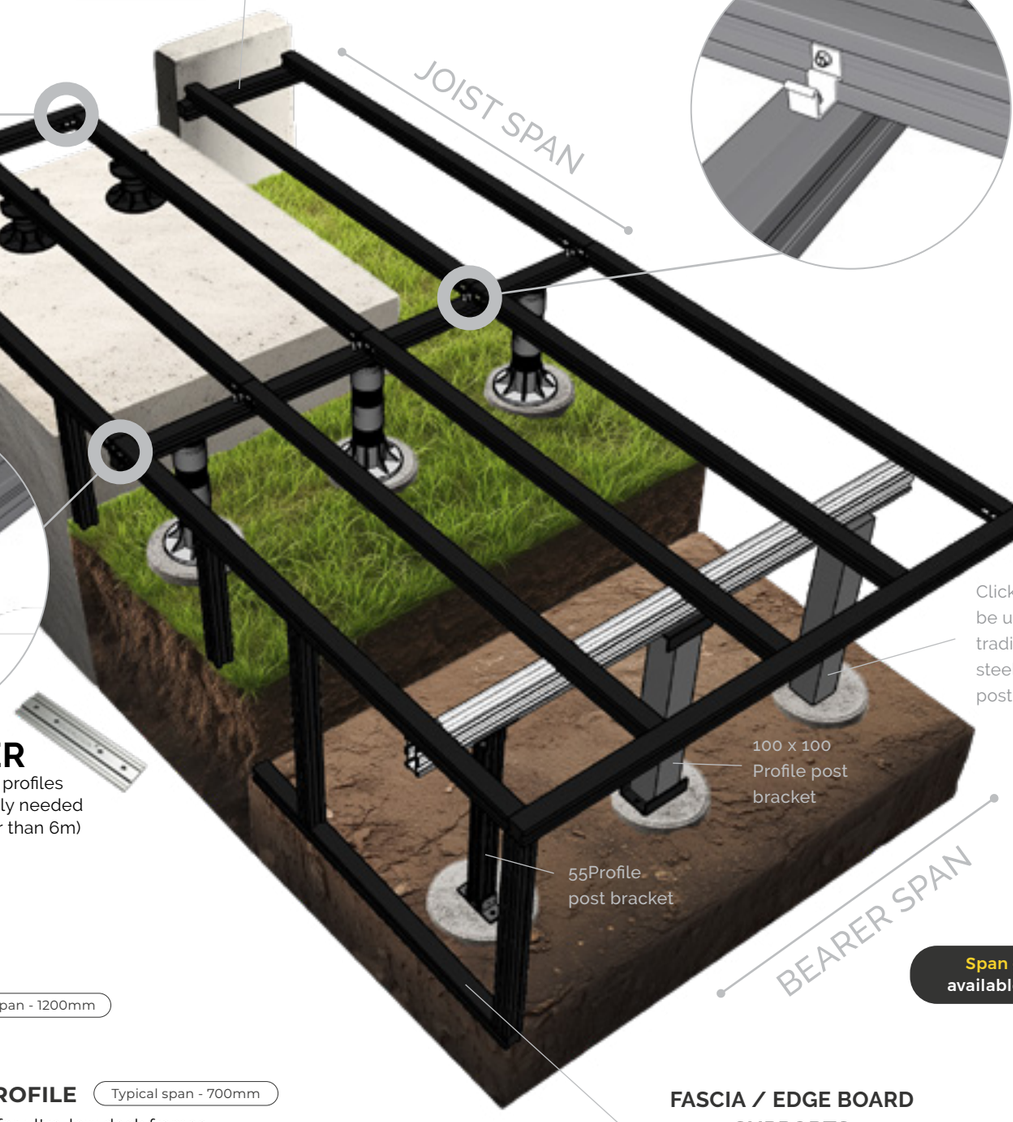
Fits in 30mm

The 28Profile can be either supported by our pedestal system or fixed to a slab with plastic packers.



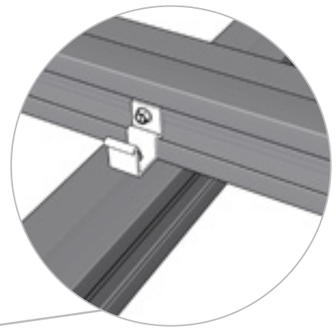
JOINER

Used to join profiles together (only needed when longer than 6m)



HOLD DOWN CLIP

Used to make joist to bearer connection



Span guidelines available on page 57

FASCIA / EDGE BOARD SUPPORTS

Allows fascia/Edge board to be fixed to the side of the deck.

See page 33

JOIST / BEARER

200PROFILE — Typical span - 3400mm

Engineered for maximum span capability, suitable for large-scale commercial and industrial projects requiring superior load-bearing performance.

150PROFILE — Typical span - 2700mm

Designed for high-load applications,
offering increased strength and stability for heavy-duty decking and structural support.

110PROFILE — Typical span - 1900mm

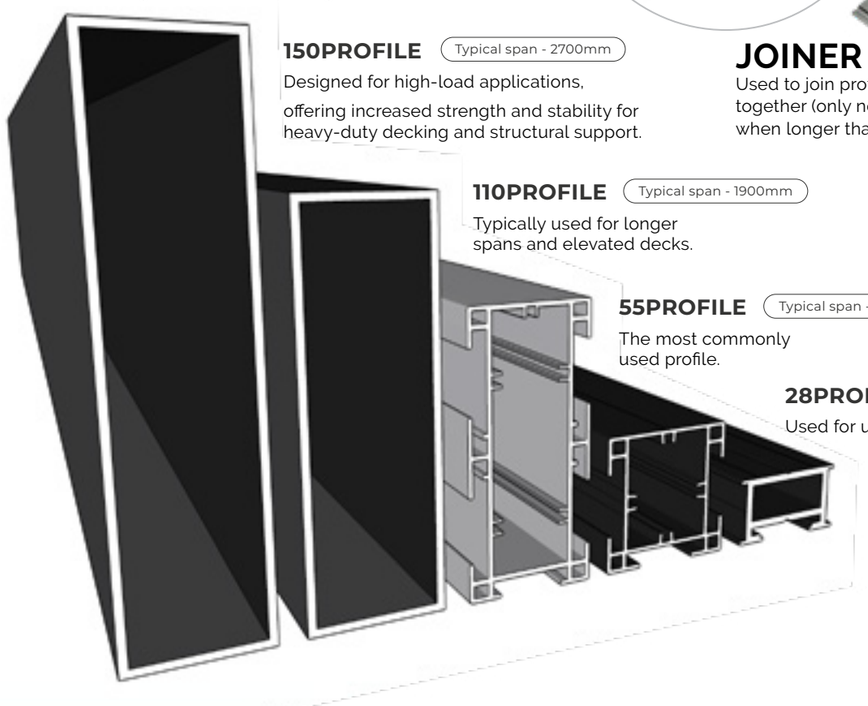
Typically used for longer spans and elevated decks.

55PROFILE — Typical span - 1200mm

The most commonly used profile.

28PROFILE — Typical span - 700mm

Used for ultra-low deck frames.



DECK SUPPORTS

POWER PEDESTAL DECK SUPPORTS

Exolux Pedestal system allows for height adjustment between 10 - 440mm.

55PROFILE ALUMINIUM POSTS KITS

Clickdeck's aluminium post option uses the 55Profile as a post with screw on post brackets.

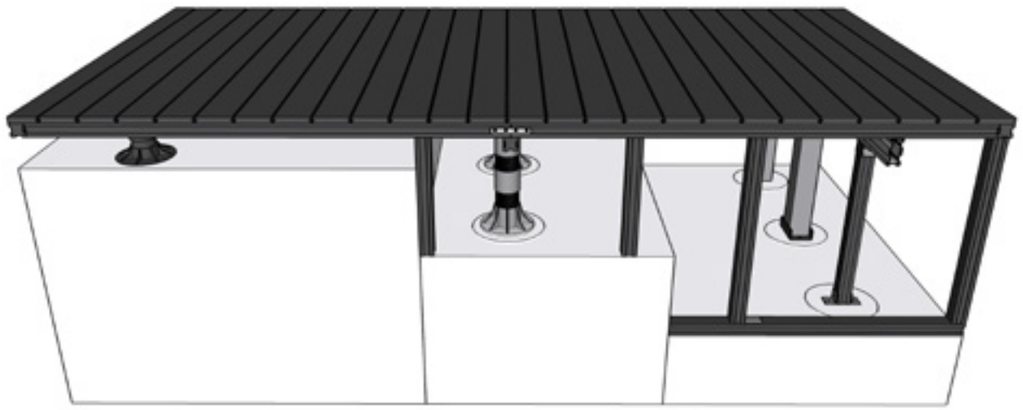
100X100 PROFILE ALUMINIUM POSTS KITS

100 x 100mm Profile
Heavy-duty support for commercial applications, suitable for heights up to 2000mm with 100 x 100 Profile post Brackets (top & bottom)

STEEL / TIMBER POSTS

Clickdeck can be used with traditional timber, steel, aluminium posts.

FASCIA BOARD SUPPORT



EXTRA LOW HEIGHT
30-140mm

LOW HEIGHT
140-400mm

MID HEIGHT
400-1000mm

FASCIA / SIDE BOARD
Can fix direct to side of joist

FFL 28-145mm

Single Corner bracket

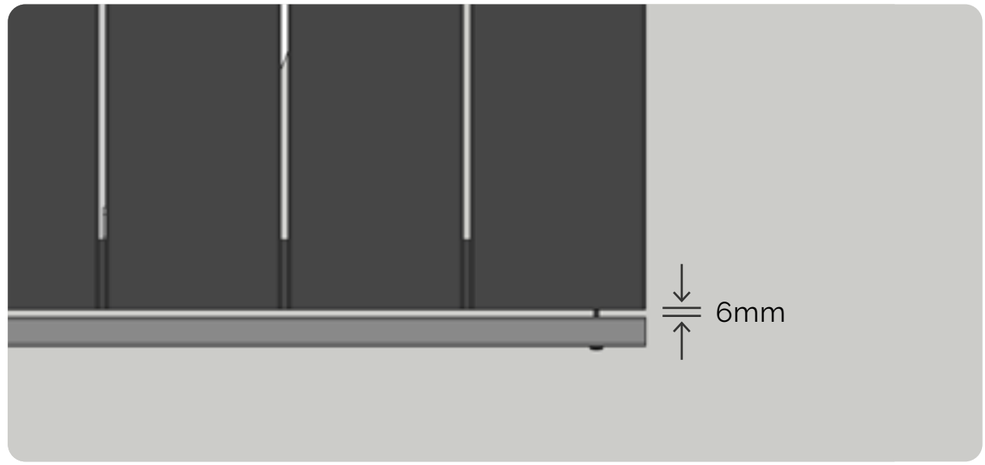
FFL 145-250mm

Double Corner bracket

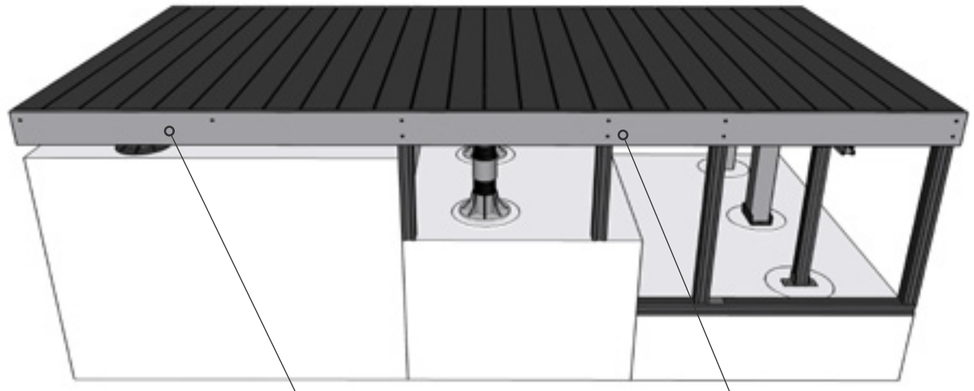
FFL 250-400mm

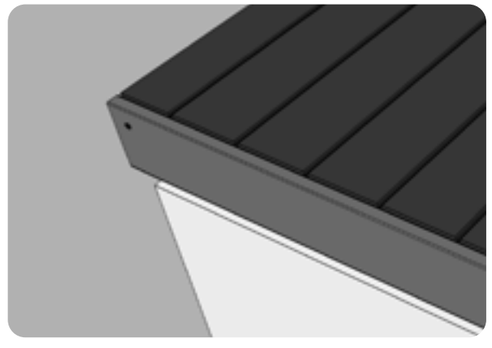
Top plate / Bottom plate

FFL >400mm

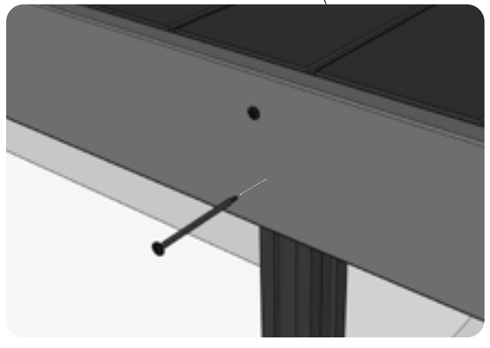


Leave a 6mm gap between the decking board and the fascia/side board.





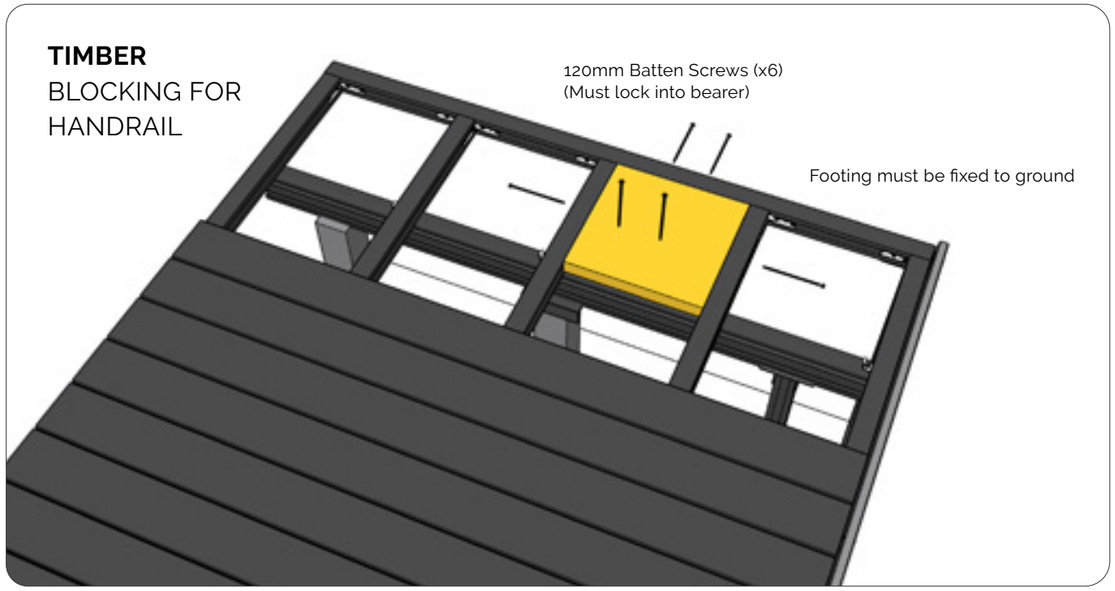
Level the fascia/side board with the decking surface, then secure it in place using screws (to be supplied by others)



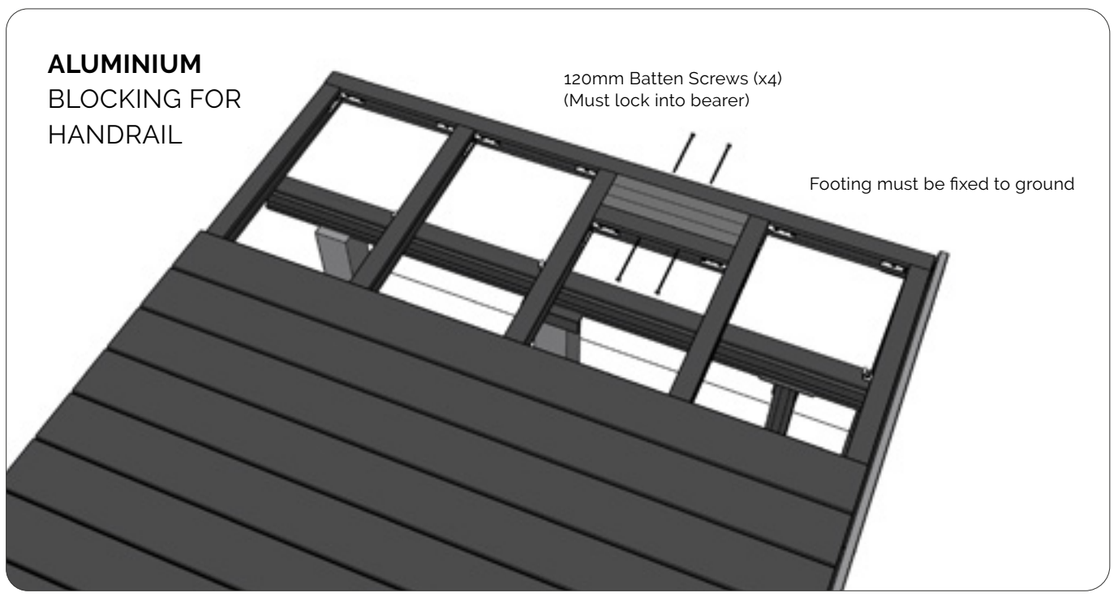
Fix the fascia/side board to the post using two screws. (Only one screw is required on the joist for extra-low height installations.

HANDRAIL SUPPORT

TIMBER
BLOCKING FOR HANDRAIL

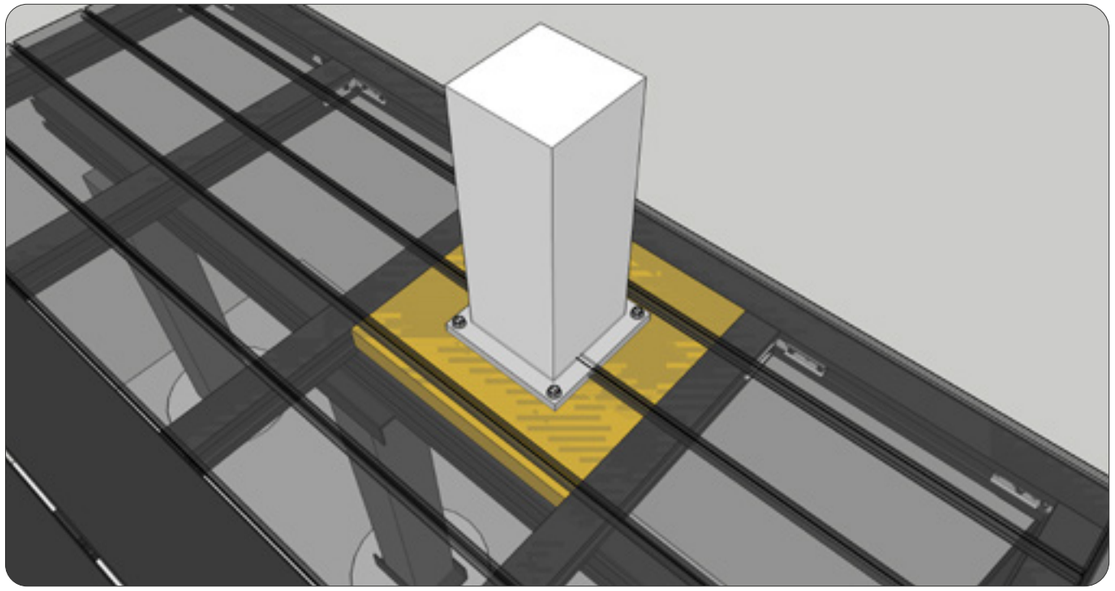


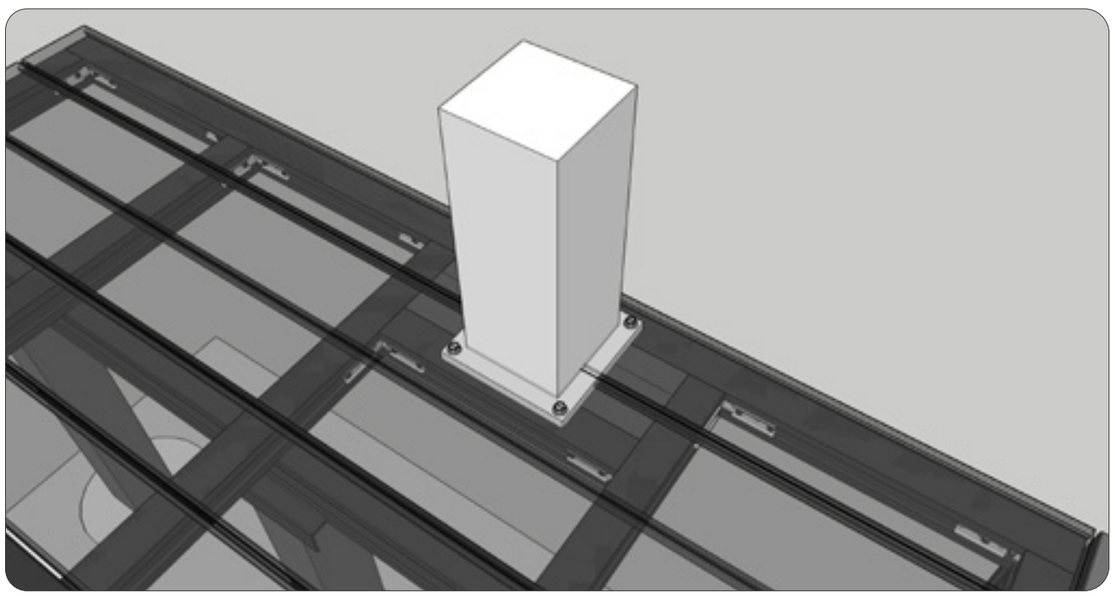
ALUMINIUM
BLOCKING FOR HANDRAIL



NOTE:

Note: Please consult handrail engineer for installation requirements.



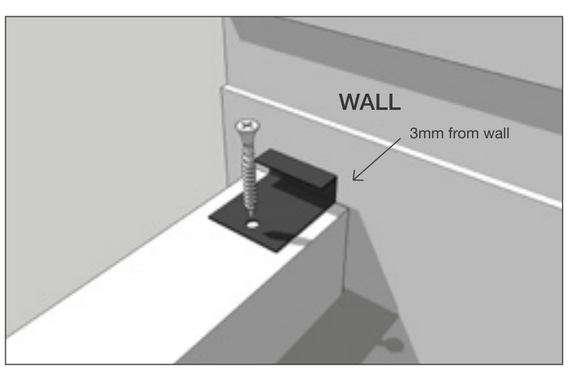


TYPICAL DECKING SURFACE INSTALLATION

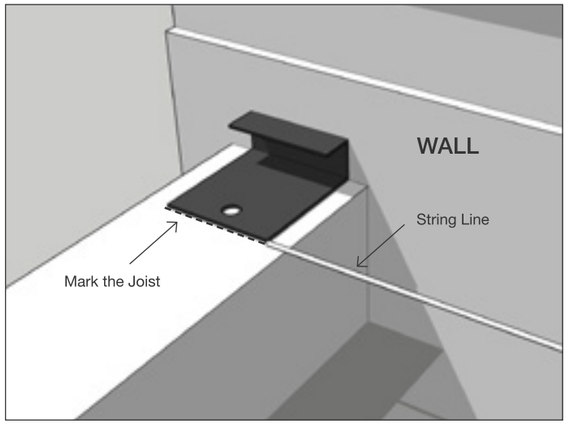
MAIN COMPONENTS

 **C-CLIP** Used to secure boards with a flush finish against objects such as house walls This is typically used when starting the decking from a wall.	 **STANDARD CLIP** (6mm Spacing) This is installed on the centre joist to stop the decking board from creeping from expansion/contraction. Use 1 per board maximum.	 **LOCKING CLIP** This is installed on the centre joist to stop the decking board from creeping from expansion/contraction. Use 1 per board maximum.
 **SCREWS** 30mm Screw for Metal Subframe	 **SCREWS** Screw for Timber Subframe	 **SCREWS** Typical screws used to facefix decking and fascia boards Supplied separately

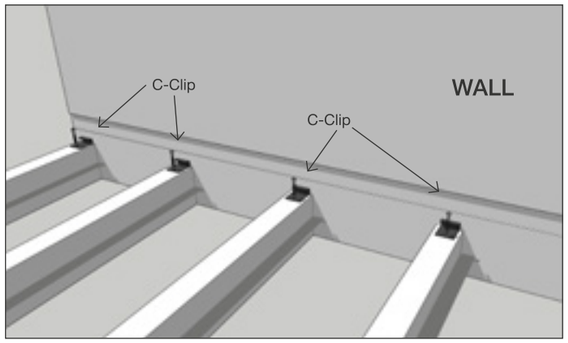
STARTING FROM A WALL



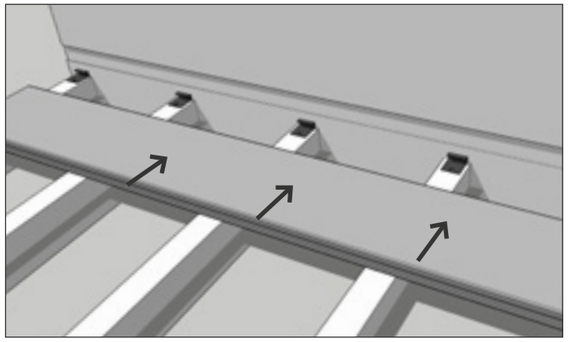
1.
Secure a C-Clip on top of the first joist, ensuring it is positioned at least 3mm away from the wall. If necessary, use a packer for accuracy. Fasten it using the supplied C-Clip screws. Repeat this process for the last joist.



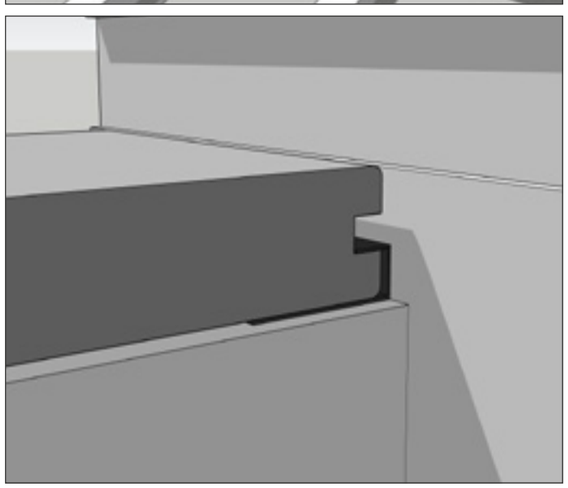
2.
Use a string or chalk line to create a guideline from the front edge of the first C-Clip to the last one. Mark the remaining joists along this line for precise placement.



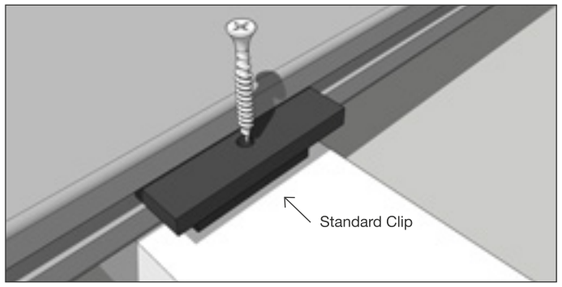
3.
With the top of the joists now marked, install the rest of the C-Clips. C-Clips can be placed on every second joist if necessary. Gently push the first Luxdeck board into the C-Clips. You may need to angle the board slightly to push into the C-Clips.



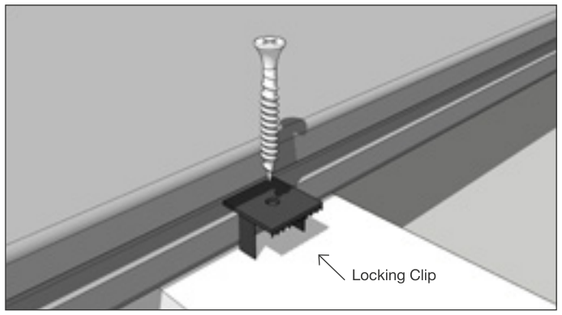
4.
You can now begin to fasten your boards using Standard and Locking Clips – refer to the 'Fastening Boards' section.



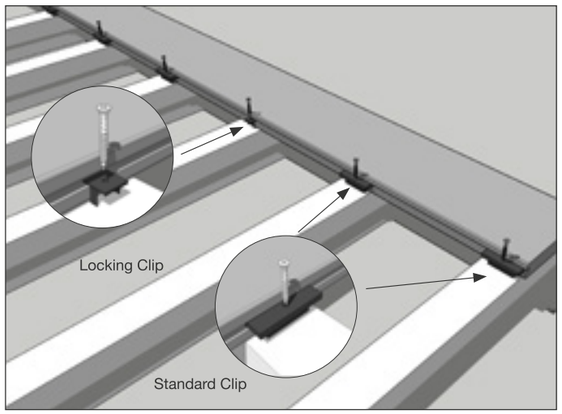
HOW TO FASTEN BOARDS



1. Insert Standard Clips and Locking Clips into the groove of the board.
(Note: Only use 1 Locking Clip per board, which is typically placed in the middle of each board). Screw down approximately 2mm to hold the clips in place.



Ensure you have installed 1 (one) Locking Clip per board. Failing to install a Locking Clip will allow your boards to shift and come out of alignment.



2. Push the next board into position.

3. Repeat these steps and lay approximately 6-10 boards before screwing down properly (this is a guide only). Measure from each end of the first board to the last board to ensure that the boards are square.

4. Screw down this section of decking. Do not overtighten screws.

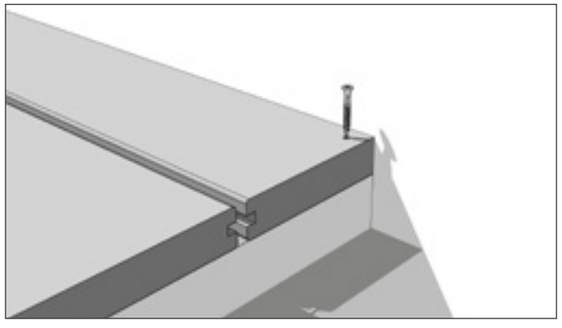
5. When securing the Locking Clip, ensure that the screw is tightened sufficiently so the teeth bite into the groove of the Luxdeck boards.

6. Repeat steps 1-5 until complete.

7. Once you reach the end of your deck, you may need to rip the last board down to fit.

Fascia Board Installation - **Option A**

Fascia Board Installation - **Option B**

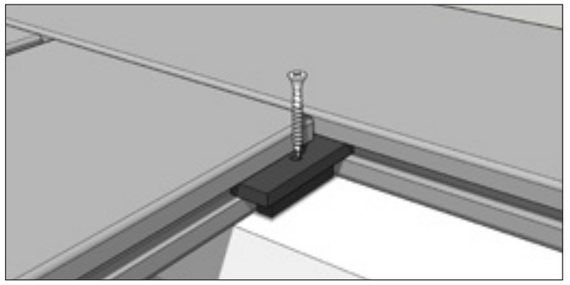


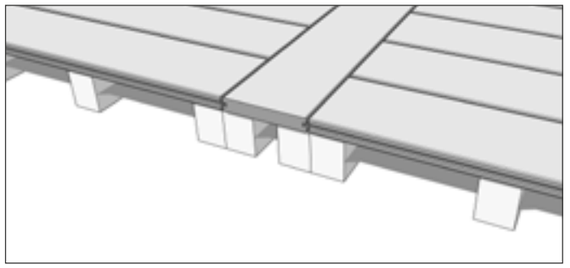
TOP-FIXING

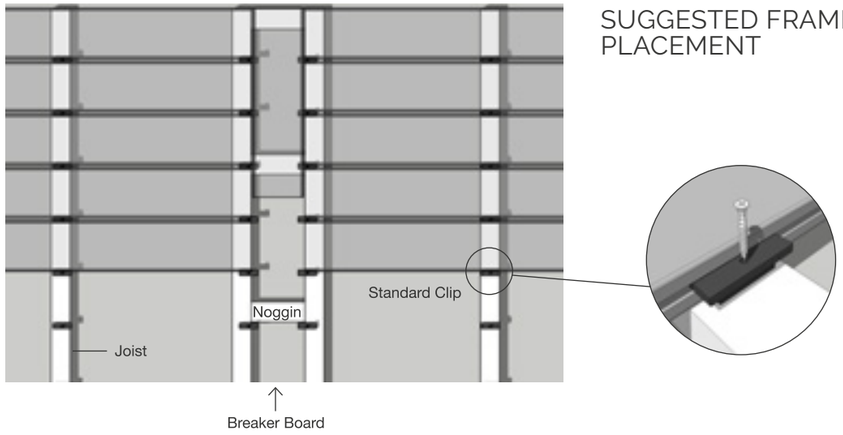
Depending on your deck design and layout, you may need to secure the last edge of your board or fascia by top fixing.

We recommend using 10g screws every 450mm.

Be sure to pre-drill an oversized clearance hole and countersink the board.







BREAKER BOARDS & PICTURE FRAMING

To secure your breaker board or picture frame, you can use Standard Clips.

Use the overhanging edge of the Standard Clip to secure both the decking and the breaker board.

With your breaker board now installed, you can continue to lay the rest of your deck.

SUGGESTED FRAMEWORK AND CLIP PLACEMENT

As a composite material,
Luxdeck offers unique properties that differentiate it from timber.

For a secure and long-lasting **Luxdeck** installation, it is essential to review this guide thoroughly.

Luxdeck boards are specifically designed for installation using the **LUXKIT** Hidden Fastening System, ensuring a smooth, fastener-free surface and a simpler setup process.

EXOLUX DECKING PRODUCTS
BY EXOLUX CLICKDECK® MODULAR DECKING SYSTEM
BY EXOLUX LUXDECK® LUXURY DECKING

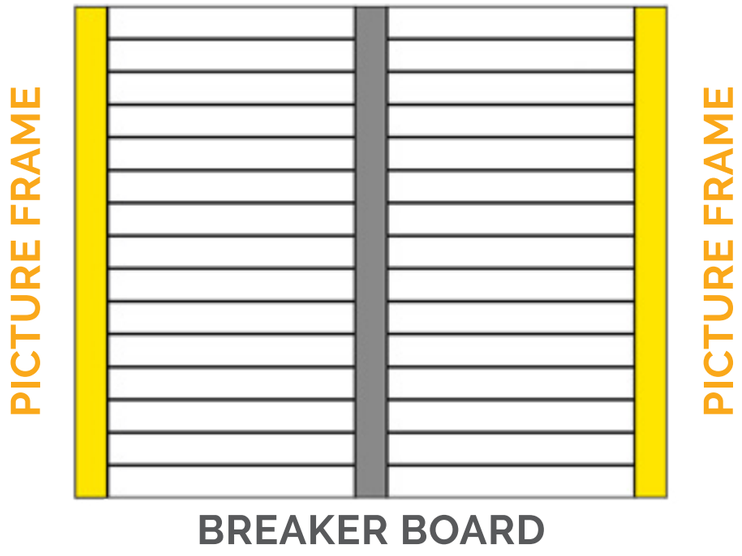
This guide should be used alongside our installation videos and additional resources available on our website:
www.clickdeck.com.au

SCAN THE QR CODE TO WATCH
STEP-BY-STEP INSTALLATION VIDEOS

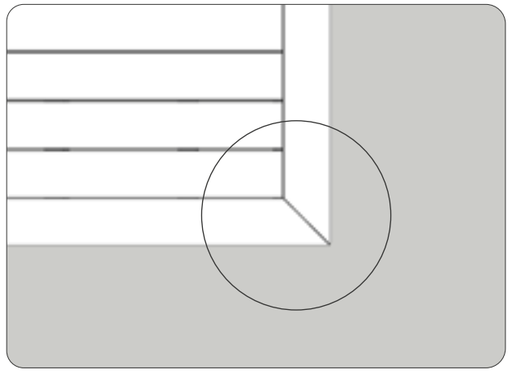
DECK BOARD DETAIL

PICTURE FRAME / BREAKER BOARD

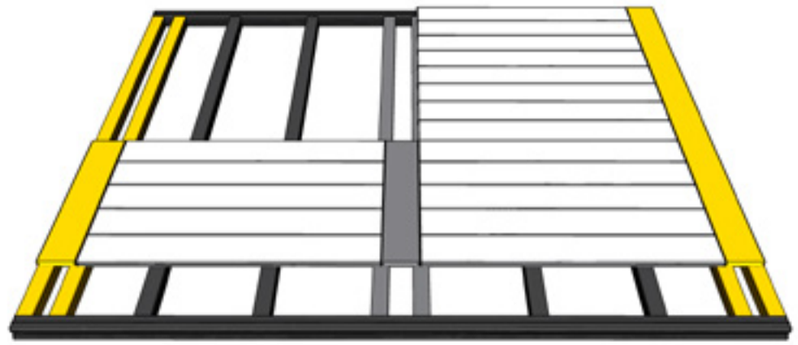
PICTURE FRAME / BREAKER BOARD LAYOUT



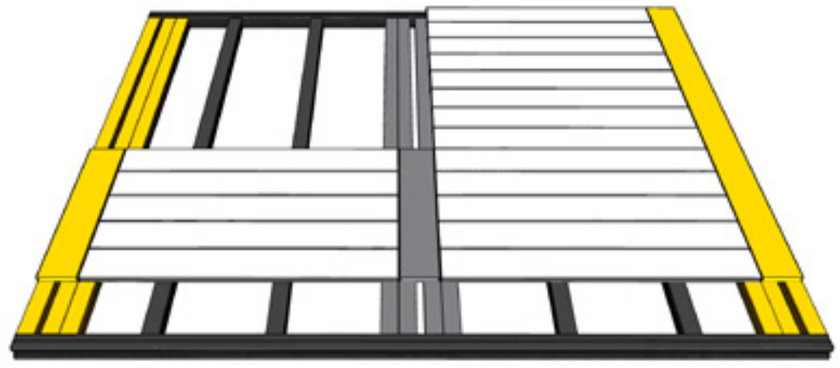
Using a 45-degree angle for the picture frame is **not recommended.** ✕



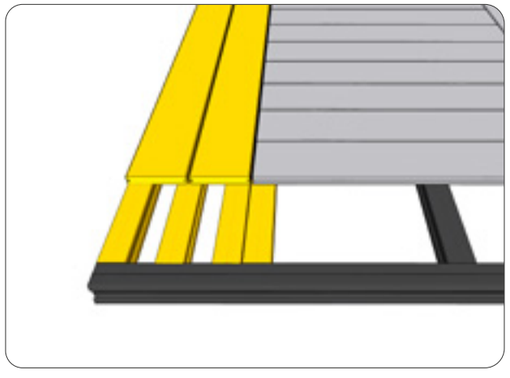
Picture Frame & Breakerboard using **1x additional joists**



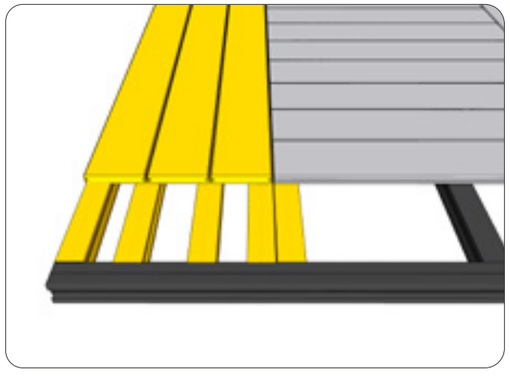
Picture Frame & Breakerboard using **2x additional joists**



Double Picture Frame Setup



Triple Picture Frame Setup



CURVED DECKING & CUSTOM LAYOUTS

How to Create Curved Framing:

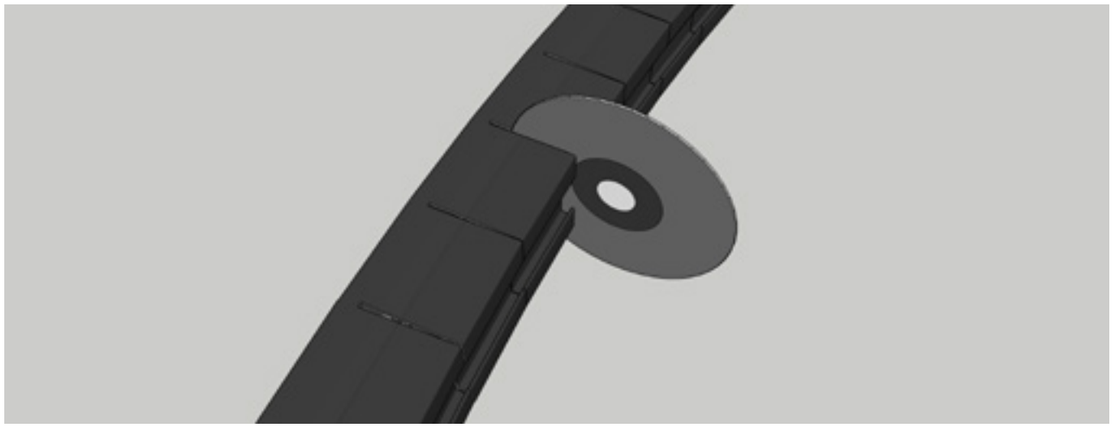
Slot out 80% of joist profile depth

Bend to required curve

Reinforce using aluminium strips (20mm x 1.6mm)

STEP 1: Prepare the Joist for Bending

Cut out 80% of the joist profile depth, ensuring 20% remains intact to maintain structural integrity. Carefully bend the joist to match the desired curve.

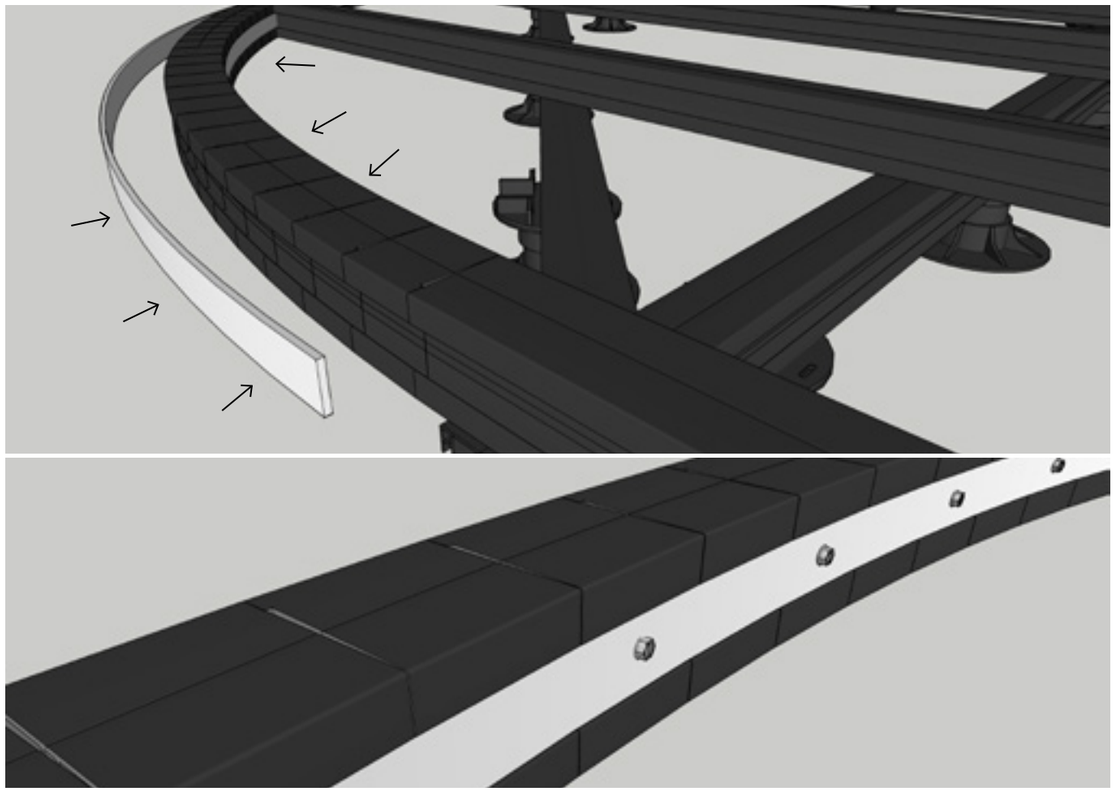


STEP 2: Reinforce the Joist Profile

Use a 20mm x 1.6mm aluminium strip to strengthen the joist profile:

Flat Side Up: Attach the aluminium strip to both the inside and outside of the perimeter joist.

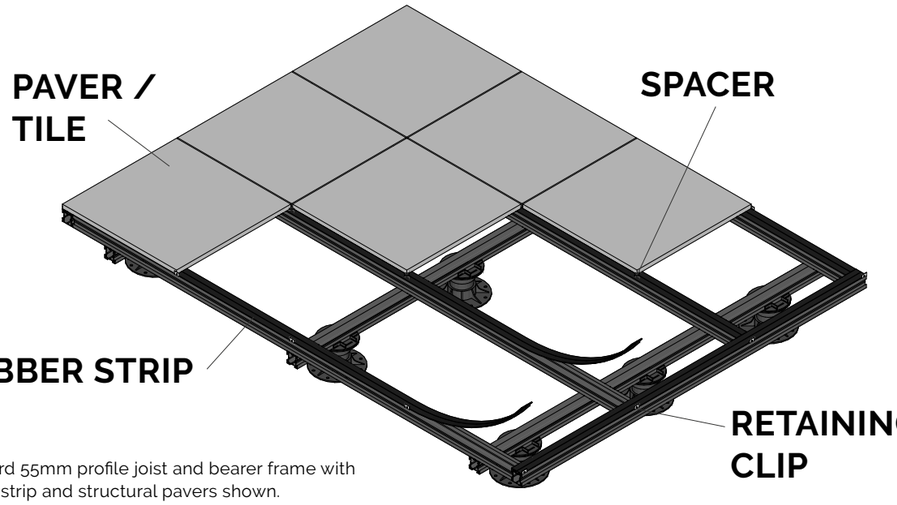
Profile Side Out: Only one internal aluminium strip is required.



Ensure the strip is securely fixed for optimal reinforcement.

RAISED PAVER / TILE INSTALLATION

COMPONENTS



Standard 55mm profile joist and bearer frame with rubber strip and structural pavers shown.

TILE SUPPORT ACCESSORIES

RETAINING CLIP

Prevents pavers/tiles from moving off the frame.

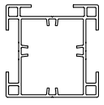
SPACER

Keeps spaces between pavers/tiles uniform.

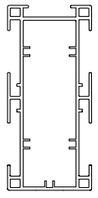
RUBBER STRIP

Provides a non-slip, noise dampening barrier, between frame and pavers/tiles.

28x50mm

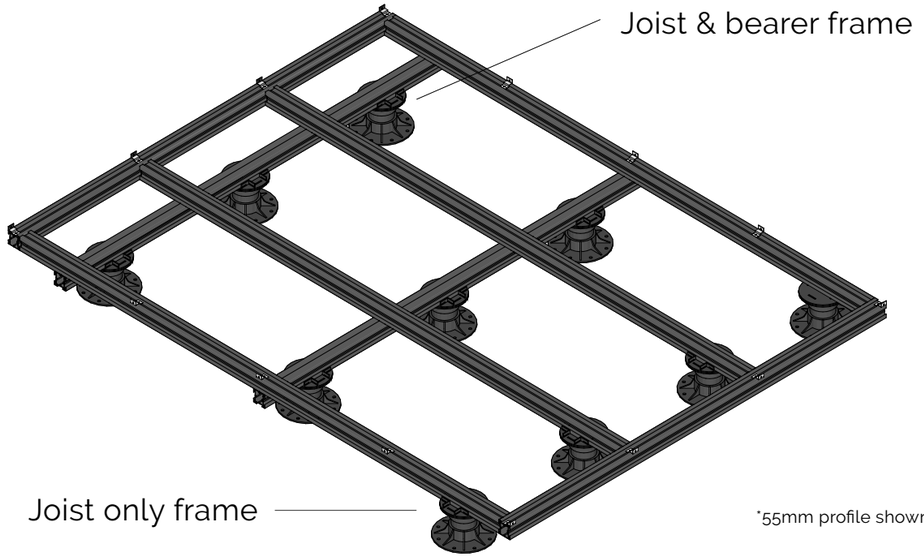


55x55mm



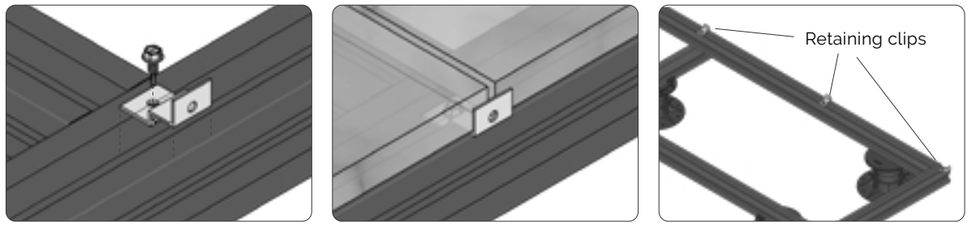
110x50mm

Ensure joists are laid **flat side down** during assembly of the frame for paver/tile surfaces. Bearers should be laid **flat side up** as normal.

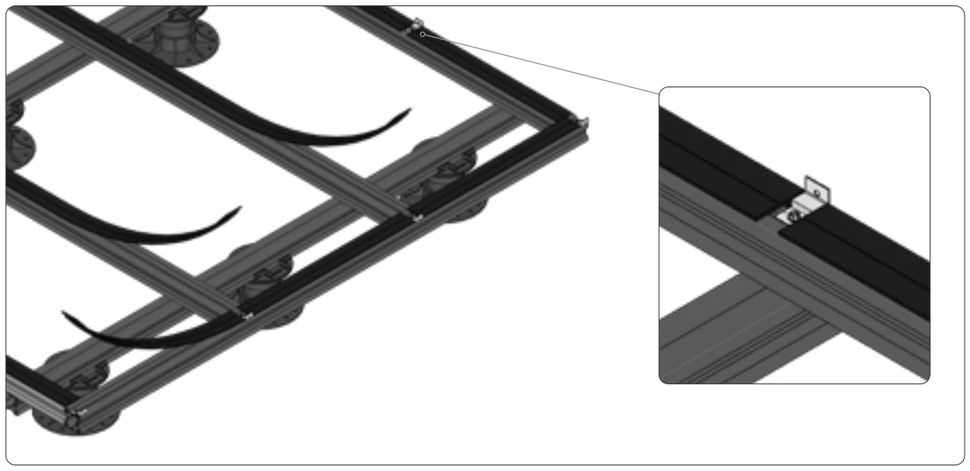


*55mm profile shown

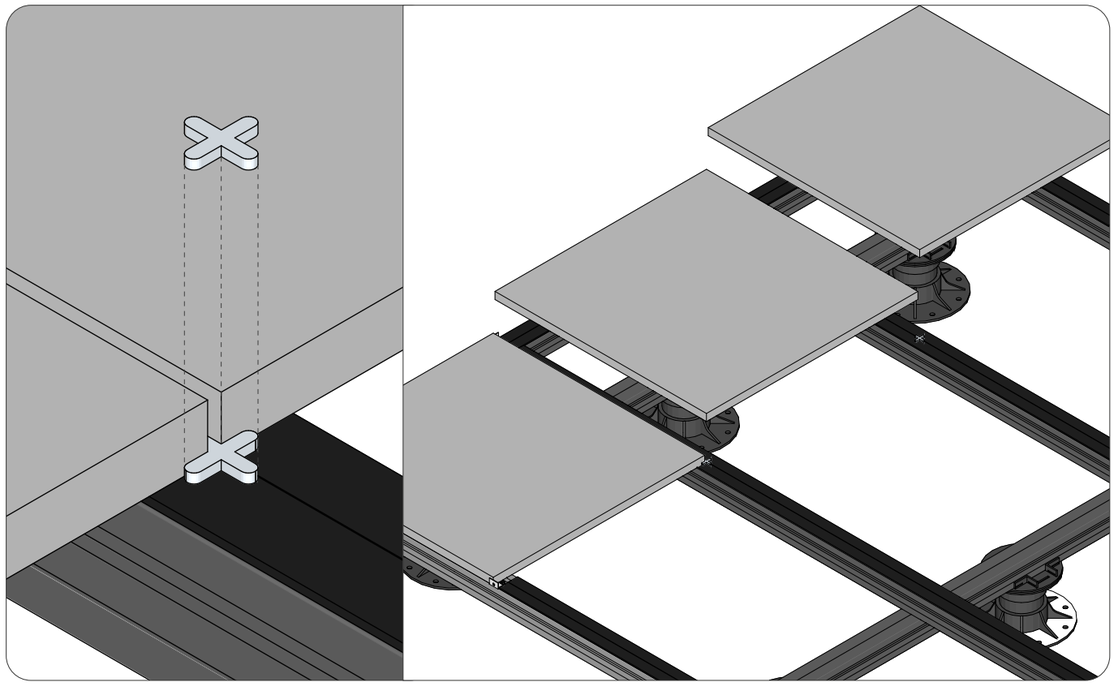
Assemble your ClickDeck® frame following the instructions provided, ensuring joists are laid **flat side down** and spaced at centres matching your selected pavers/tiles (eg. 600x600x20mm).



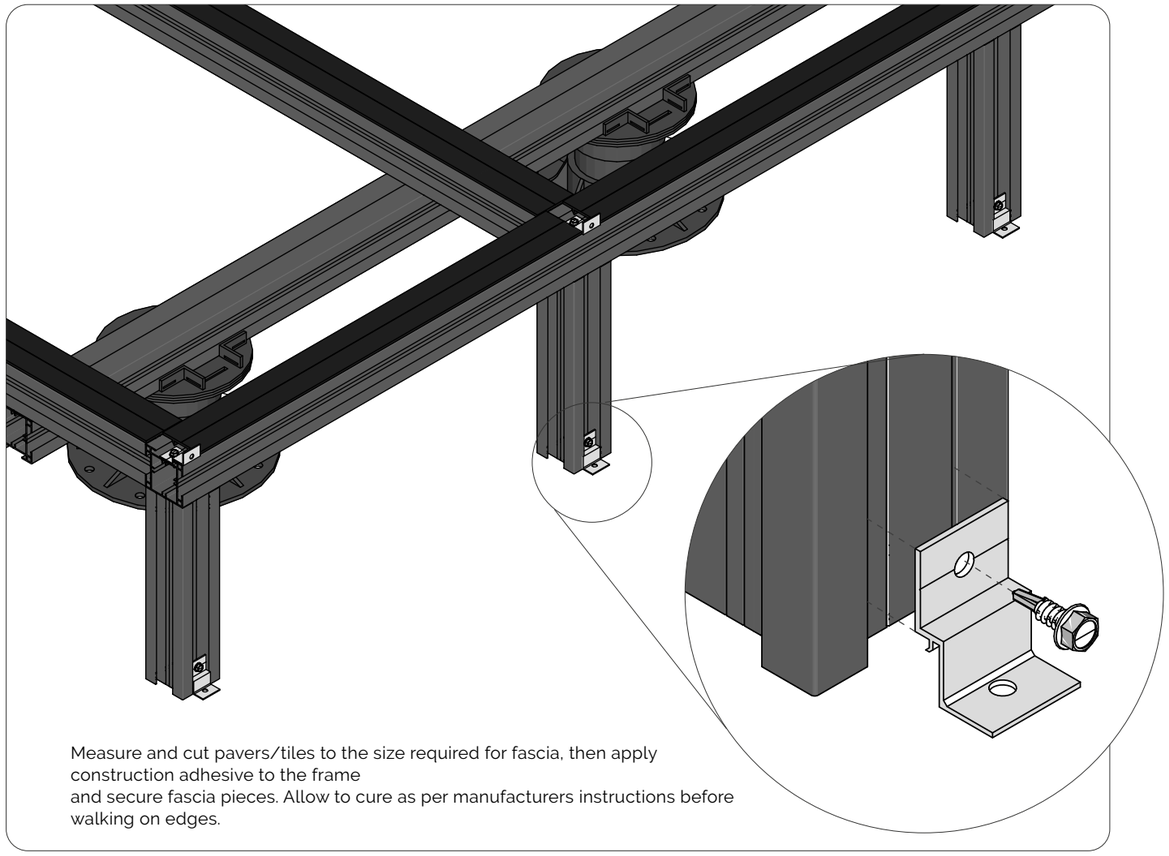
Install the retaining clips on the edges of the frame using the supplied hex screws at each intersection between pavers/tiles. Retaining clips are not required against a wall.



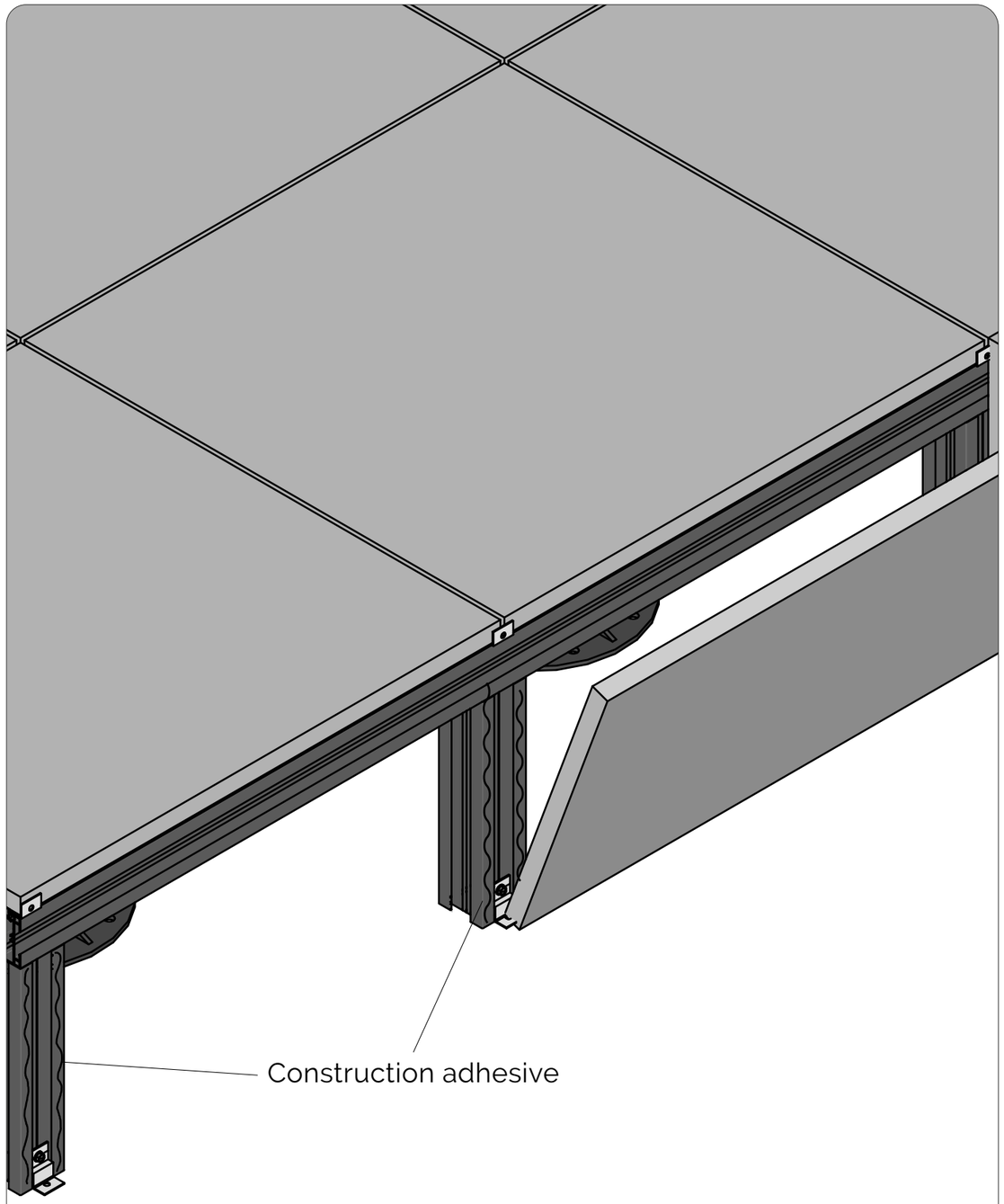
Press rubber strips into recessed channel on top of all joists and perimeter joists. Cut around obstructions to allow the rubber strips to lay flat.



Begin laying pavers/tiles from your chosen starting edge with spacers placed in between every intersection.
Starting from the side furthest away from walls/structures is recommended.



Measure and cut pavers/tiles to the size required for fascia, then apply construction adhesive to the frame
and secure fascia pieces. Allow to cure as per manufacturers instructions before walking on edges.



Measure and cut pavers/tiles to the size required for fascia, then apply construction adhesive to the frame
and secure fascia pieces. Allow to cure as per manufacturers instructions before walking on edges.

STAIR ASSEMBLY INSTRUCTIONS

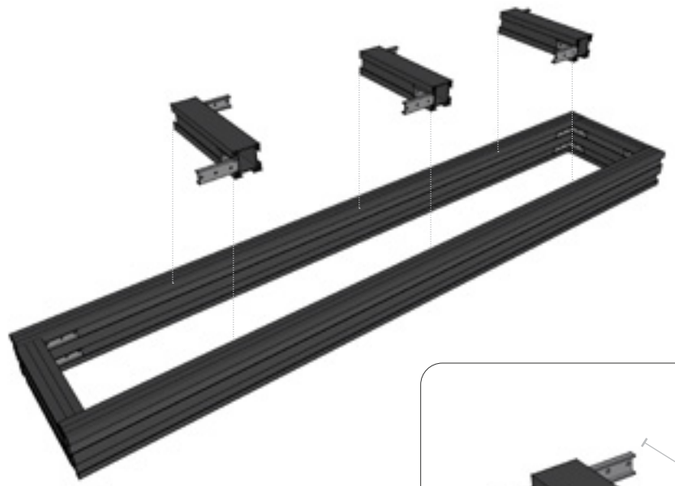
Exploded Diagram

Notes: Max Span between for stair posts : 1800mm
Max Depth of step : 900mm

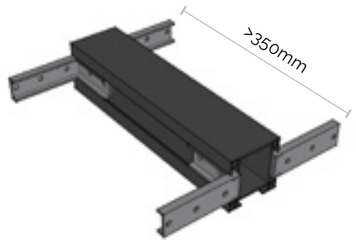
(Residential Loading)

Please contact us for further loading requirements

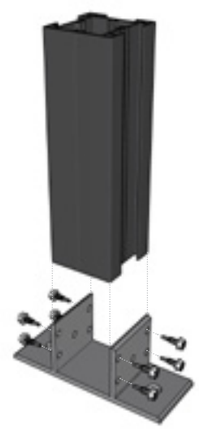
Step 1: Assemble perimeter frame using (110 Profile) - Use double corner brackets per connection.



Step 2: Install joists at desired joist spacing eg 400mm / 450mm

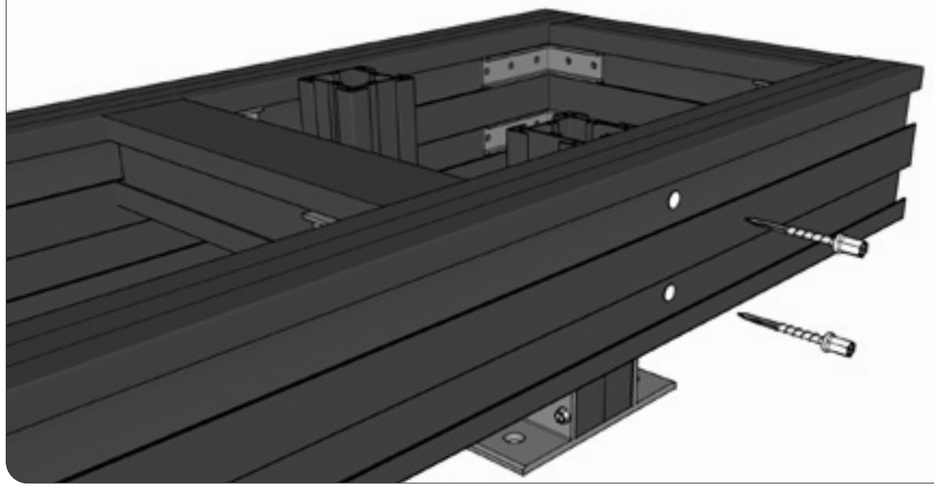


Note: if step tread is deeper than 350mm
use 4x Corner bracket per joist.

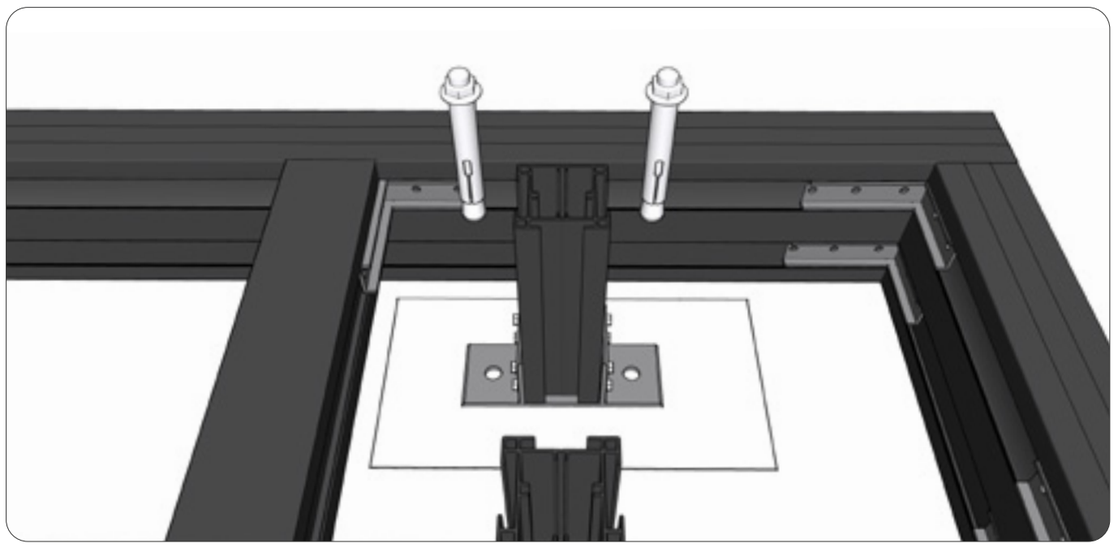


Step 3: Assemble post brackets on 55Profile - Cut post length to desired step height.

Step 4: Assemble posts into step frame

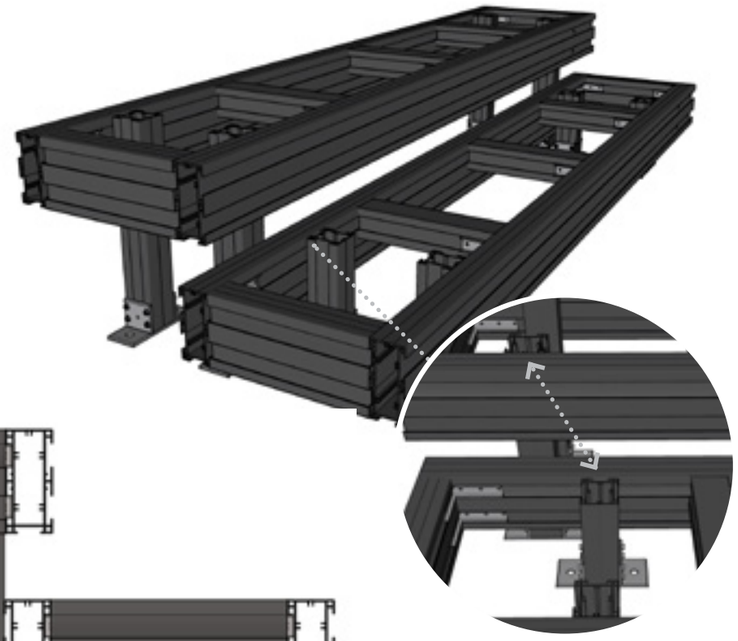


Predrill 110 Profile for clearance holes, then install 65mm long hex screws into post.

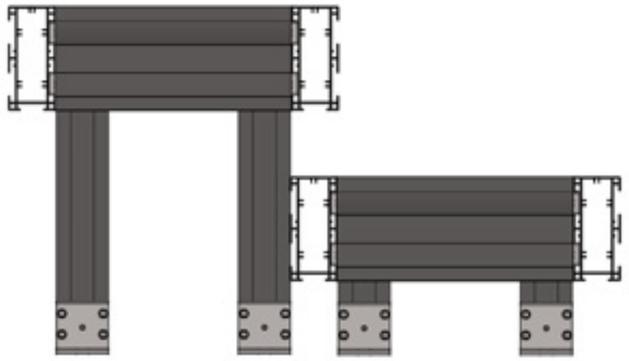


Use appropriate masonary fixings - Ensure the post brackets are bolted down to stable footing / concrete pad.

Multi- Steps

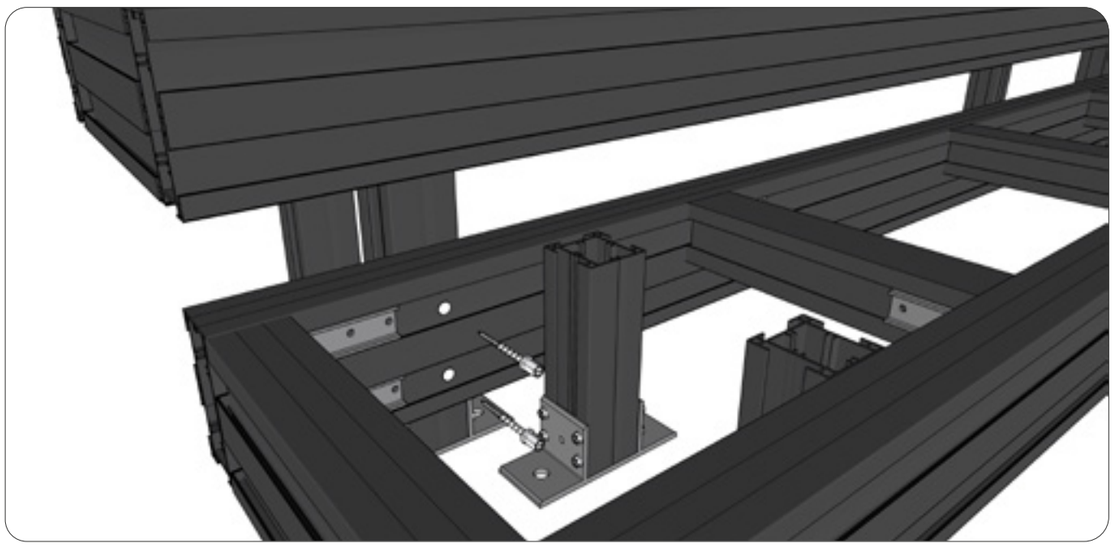


Offset BOTTOM step post and TOP Step post location



Repeat single step instruction to assemble each step.

Note: Maximum 3 Step design achievable | Must be fixed down to structural spot footing / slab.



To attach BOTTOM step to TOP step, predrill clearance hole then fix rear of BOTTOM step to from posts of TOP step.

CERTIFICATION & VIBRATION CHECK

ClickDeck complies with Australian Building Standards and has been structurally certified by Barrason's Engineers.

Standard Residential deck loading - Class A -

- 2Kpa Live Load , 0.2Kpa Dead Load , 1.8 KN Point Load*

FORM 126 Certification (VIC)
FORM 15 Certification (QLD)

ClickDeck System is a certified engineered product. We offer custom site-specific engineering and certification, contact our friendly team for more information.

Vibration Check for Load Requirements

Profile Size	Residential Load (2kPa)	Commercial Load (3.5kPa)	Podium Decks (4.5kPa	Public Areas (5.5kPa)
28mm	<2mm	<2.5mm	<3mm	<3.5mm
55mm	<2mm	<2.3mm	<2.8mm	<3.2mm
110mm	<1.8mm	<2mm	<2.5mm	<3mm
150mm	<1.6mm	<1.8mm	<2.2mm	<2.7mm
200mm	<1.5mm	<1.7mm	<2mm	<2.5mm

If your project requires non-standard load calculations, please contact our engineering team for site-specific guidance.

Barrason's Engineers
Structural & Civil Design

Structural Assessment

Project:	Aluminium Subfloor System	**Ref No. 2207264**	CAN-001
From:	Andrew Barraclough		

	Attention	**Company**	**Email**
To:	Nathan Azaredo	Exolux Modular Subfloor Systems	nathan@exolux.com.au

Re: Clickdeck Decking System

I, Andrew Barraclough, certify that we have carried out a design check for the aluminium subfloor elements' sections of 28x50, 55x55, and 110x55. We confirm that the nominated aluminium profile sections and connections can sustain the design loads during the stages (Refer: 'Clickdeck Residential Span Table' and 'Clickdeck Commercial Span Table') for the nominated structural purposes.

Kind Regards,

Andrew Barraclough

Dr Andrew Barraclough
BEng MEng PhD FIEAust CPEng NER RBP (EC 46301)
Barrason's Engineers, Principal Engineer

Notes:

1. This consultant advice notice does not authorise any extension of time or cost variation.
2. Should the contractor deem that this notice constitutes an extension of time or cost variation, then they are to submit a claim in writing to the project manager and obtain approval prior to undertaking the nominated works.
3. This communication may contain information that is privileged, confidential and /or exempt from disclosure under applicable law. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of the information contained herein is prohibited. If you receive this transmission in error, please immediately contact the sender and destroy the material in its entirety, whether in electronic or hard copy format.

Barrason's Engineers
A: Lvl 2-3, 2 Pacific Promenade, Pakenham, Vic, 3810
P: (03) 5940 2638
E: admin@barrasons.com.au
W: www.barrasonesengineers.com
ABN: 96 635 681 300

Notes: Vibration check for 1.8 KN PL <2mm
For non standard projects please contact us for site specific engineering.

CLICKDECK ITEM LIST

ALUMINIUM PROFILES	DESCRIPTION
28PROFILE (28x50) Joist / Bearer	
P28-3600	28mm Profile - 3600mm Length
P28-4800	28mm Profile - 4800mm Length
P28-6000	28mm Profile - 6000mm Length
55PROFILE (55x55) Joist / Bearer	
P55-2400	55mm Profile - 2400mm Length
P55-3600	55mm Profile - 3600mm Length
P55-4800	55mm Profile - 4800mm Length
P55-6000	55mm Profile - 6000mm Length
110PROFILE (110x50) Joist / Bearer	
P110-3600	110mm Profile - 3600mm Length
P110-4800	110mm Profile - 4800mm Length
P110-6000	110mm Profile - 6000mm Length
150PROFILE (150x50) Joist / Bearer	
P150-6000PC	150mm Profile - 6000mm Length
200PROFILE (200x50) Joist / Bearer	
P200-6000PC	200mm Profile - 6000mm Length
100x100 POST	
100x100 Post - 6m Length	100x100 Post - 6000mm Length

COMPONENTS	DESCRIPTION	PER PACK
HDC25	Hold down Clip - 25 Pack	25
55JOINER-6	Joiners for 55/110 Profiles - 6 Pack	6
28JOINER-6	Joiners for 28 Profiles - 6 Pack	6
CORNERBK-2	Corner brackets - 2 Pack	2
55POSTBK	Post Bracket for 55Profile	1
TILECLIP-25	Tile Retaining Clips - 25 pack	25
RUBBER-1	Rubber Strip for Tile - 1 Meter	1
HEX20-250	20mm Hex Screw - 250 Pack	250
HEX65-25	65mm Hex Screw (For stairs) - 25 Pack	25
P150BK-S	150profile Joist Holder - Straight Connections	1
P150BK-R	150profile Joist Holder - For Angled Connections	1
P200BK-S	200profile Joist Holder - Straight Connections	1
P200BK-R	200profile Joist Holder - For Angled Connections	1
100POSTBK	Post Bracket for 100 Post	1
ALUSTRIP-4M	Aluminium Reinforcing Strip - 4m Long	1
TILECROSS-100	5mm Tile Spacers - 100 Pack	100

DECK SUPPORTS	DESCRIPTION	PER PACK
PEDESTALS		
FX0	(10-25mm)	1
PPA	(24-35mm)	1
PPB	(33-47mm)	1
PPC	(45-70mm)	1
PPD	(67-109mm)	1
PPE	(95-190mm)	1
PPE1	(185-325mm)	1
PPE2	(260-440mm)	1
DECKLIFT PRO		
DECKLIFT PRO	(9-110mm)	1
55x55 POST KIT		
55Post Kit - 600mm	55mm Post Kit - 600mm Length	1
100x100 POST KIT		
100Post Kit -1200mm	100mm Post Kit - 1200mm Length	1
100Post Kit - 2000mm	100mm Post Kit - 2000mm Length	1

SPAN TABLES

2.5 Kpa / 1.8 PL
Standard Residential
(Standard loading - 3 People per SQM)
Notes: Vibration check for 1.8 KN PL <2mm

JOISTS	JOIST SPACING: 450mm	
PROFILE	SPAN	CANTILEVER
28x50	600/700*	200
55x55	1050/1200*	300
110x50	1900/2100*	500
150x50	2400 / 2500*	650
200x50	2700 / 2800*	900
28x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	600/700*	200
1000	550/650*	200
1200	550/650*	200
1500	550/650*	150
1900	550/650*	150
2100	500/650*	150
55x55 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	1200/1200*	300
1000	1150/1200*	300
1200	1100/1200*	300
1500	1050/1150*	250
1900	950/1050*	250
2100	950/1000*	200
110x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	2400/2600*	500
1000	2150/2400*	500
1200	2050/2200*	500
1500	1900/1950*	400
1900	1700/1750*	400
2100	1600/1650*	400
150x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	2700 / 3000*	650
1000	2700 / 3000*	650
1200	2700 / 2900*	650
1500	2600 / 2700*	500
1900	2400 / 2500*	500
2100	2200 / 2300*	500
2500	2100 / 2200*	200
2900	2000 / 2100*	200
3300	1900 / 2000*	100
3900	1700 / 1800*	100
200x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	3400 / 3900*	900
1000	3400 / 3900*	900
1200	3400 / 3800*	900
1500	3400 / 3500*	700
1900	3100 / 3200*	700
2100	3000 / 3100*	700
2500	2700 / 2800*	300
2900	2600 / 2700*	200
3300	2400 / 2500*	200
3900	2200 / 2300*	100

ALU261223

3.5 Kpa / 2.7 PL
Commercial
(Standard loading)

JOISTS	JOIST SPACING: 450mm	
PROFILE	SPAN	CANTILEVER
28x50	450/500*	200
55x55	1000/1200*	300
110x50	1900/2100*	400
150x50	2700 / 3000*	500
200x50	3400 / 3850*	700
28x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	450/550*	250
1000	450/550*	150
1200	450/550*	150
1500	450/550*	150
1900	450/550*	100
2100	450/550*	100
55x55 - BEARER		
500	1100/1200*	300
1000	950/1150*	300
1200	950/1100*	250
1500	950/1000*	200
1900	850/850*	200
2100	850/850*	200
2100	950/1000*	200
110x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	2100/2300*	400
1000	1900/2000*	400
1200	1850/1850*	300
1500	1650/1650*	300
1900	1500/1500*	250
2100	1400/1400*	250
150x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	2400/2600*	500
1000	2150/2400*	500
1200	2050/2200*	500
1500	1900/1950*	400
1900	1700/1750*	400
2100	1600/1650*	400
1200	2050/2200*	500
1500	1900/1950*	400
1900	1700/1750*	400
2100	1600/1650*	400
200x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	2400/2600*	500
1000	2150/2400*	500
1200	2050/2200*	500
1500	1900/1950*	400
1900	1700/1750*	400
2100	1600/1650*	400
1200	2050/2200*	500
1500	1900/1950*	400
1900	1700/1750*	400
2100	1600/1650*	400

ALU261223

4 Kpa / 1.8 PL
Standard Residential
(Higher occupancy loading)
Balconies / Roof decks - No heavy point loaded objects

JOISTS	JOIST SPACING: 450mm	
PROFILE	SPAN	CANTILEVER
28x50	550/700*	200
55x55	1050/1200*	300
110x50	1900/2100*	500
150x50	2700 / 3000*	650
200x50	3400 / 3850*	900
28x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	550/650*	200
1000	500/650*	150
1200	500/650*	150
1500	500/550*	100
1900	450/450*	100
2100	400/400*	100
55x55 - BEARER		
600	1100/1200*	300
1000	1000/1150*	250
1200	950/1050*	250
1500	900/950*	200
1900	800/850*	250
2100	800/800*	200
2100	950/1000*	200
110x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	2200/2400*	400
1000	1850/1900*	300
1200	1750/1750*	300
1500	1600/1600*	250
1900	1400/1400*	250
2100	1300/1300*	250
150x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	2700 / 3000*	500
1000	2500 / 2600*	400
1200	2300 / 2400*	400
1500	2100 / 2200*	300
1900	2000 / 2100*	300
2100	1900 / 2000*	300
2500	1700 / 1800*	100
2900	1600 / 1700*	100
3300	1500 / 1600*	100
3850	1400 / 1500*	–
200x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
600	3400 / 3900*	900
1000	3300 / 3400*	700
1200	3100 / 3200*	700
1500	2800 / 2900*	450
1900	2500 / 2600*	450
2100	2400 / 2500*	450
2500	2200 / 2300*	100
2900	2000 / 2100*	100
3300	1900 / 2000*	100
3850	1700 / 1800*	–

4.5 Kpa / 3.6 kN PL
Podium decks, Walkways

JOISTS	JOIST SPACING: 450mm	
PROFILE	SPAN	CANTILEVER
28x50	400/450*	-
55x55	900/2150*	300
110x50	1900/2150*	400
150x50	2700 / 3000*	500
200x50	3400 / 3850*	700
28x50 - BEARER		
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
55x55 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	900/1050*	300
1000	850/1000*	250
1200	850/950*	250
1500	850/850*	200
1900	750/750*	200
2100	750/750*	200
110x50 - BEARER		
500	2000/2200*	350
1000	1800/1800*	300
1200	1650/1650*	300
1500	1500/1500*	300
1900	1300/1300*	300
2100	1250/1250*	250
2100	1600/1650*	400
150x50 - BEARER		
500	2700 / 3000*	400
1000	2400 / 2500*	400
1200	2300 / 2400*	400
1500	2100 / 2200*	400
1900	1800 / 1900*	400
2100	1800 / 1900*	300
2500	1400 / 1500*	100
2900	1300 / 1400*	–
3300	1200 / 1300*	–
3850	1000 / 1100*	–
2100	1600/1650*	400
200x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	3400 / 3900*	500
1000	3200 / 3300*	500
1200	2800 / 2900*	500
1500	2500 / 2600*	500
1900	2300 / 2400*	500
2100	2200 / 2300*	450
2500	2000 / 2100*	200
2900	1900 / 2000*	100
3300	1700 / 1800*	–
3850	1600 / 1700*	–

5.5 Kpa / 4.5 kN PL
Public areas with trolley access

JOISTS	JOIST SPACING: 450mm	
PROFILE	SPAN	CANTILEVER
28x50	400/450*	-
55x55	800/850*	250
110x50	1900/2100*	300
150x50	2700 / 2900*	500
200x50	3400 / 3850*	700
28x50 - BEARER		
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
55x55 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	800/850*	300
1000	800/800*	250
1200	750/800*	250
1500	750/800*	200
1900	700/700*	200
2100	650/650*	200
110x50 - BEARER		
500	1900/2200*	300
1000	1600/1600*	300
1200	1500/1500*	300
1500	1350/1350*	300
1900	1200/1200*	300
2100	1100/1100*	300
2100	1600/1650*	400
150x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	2700 / 3000*	400
1000	2300 / 2400*	400
1200	2100 / 2200*	400
1500	1900 / 2000*	400
1900	1600 / 1700*	400
2100	1600 / 1600*	300
2500	1400 / 1500*	100
2900	1300 / 1400*	–
3300	1200 / 1300*	–
3850	1100 / 1200*	–
200x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	3400 / 3800*	500
1000	2900 / 3000*	500
1200	2700 / 2800*	500
1500	2400 / 2500*	500
1900	2100 / 2200*	500
2100	2000 / 2100*	450
2500	1800 / 1900*	200
2900	1700 / 1800*	100
3300	1600 / 1700*	–
3850	1400 / 1500*	–

***Continuous Span**
Minimum back span length to be 4 times of the overhang length

TERMS & CONDITIONS

LIMITATION OF LIABILITY

EXOLUX will not assume responsibility for damage to products used in conjunction with the ClickDeck® system, including decking boards, spas, furniture, water features, structures, etc., built on or attached to the deck system. The customer accepts all responsibility, risk, and liability associated with the installation and use of the product.

The instructions, guidelines, and illustrations provided in this manual are intended to support the installer during the construction of the product. However, they do not replace the input of a licensed professional and must be used in conjunction with certification from a qualified structural engineer. The customer is responsible for contacting and complying with their local council regarding regulations, permits, and codes required for deck construction. These may include specific requirements, limitations, or restrictions that supersede the information provided in the ClickDeck® Installation Guide.

FOUNDATIONS

Ensure an appropriate structural foundation is placed under each pedestal or post to support the deck loading.

ENGINEERING

General span calculations and engineering support are available through us to assist with permit applications. However, site-specific engineering may be required and should be conducted by a licensed structural engineer.

ALUMINIUM CONTACT POINTS

- Aluminium bolted to concrete: Must be separated with a plastic or EPDM packer (minimum 2mm clearance from concrete).
- Aluminium encased in concrete: Concrete must not be rapid-set or contain lime. Aluminium should be fully separated using corrosion-resistant paint or a similar method.
- Aluminium to steel: Steel must be HDG (Hot-Dip Galvanized), and a packer must be used to separate the contact points.
- Aluminium to natural ground: A minimum 5mm clearance is required.

WARRANTY

EXOLUX warrants the ClickDeck® system for a period of 10-years in construction in both residential and commercial installations.
The warranty supplied by EXOLUX PTY LTD is subject to conditions contained in this document.

SCOPE OF WARRANTY

The ClickDeck® system has been produced to high standards, however, should any manufacturing defect arise, please contact EXOLUX directly. We will arrange for an inspection of the affected product(s) to determine the extent of the issue.

EXOLUX PRODUCTS COVERED BY THIS WARRANTY

ClickDeck® modular decking system (inclusive of bearer, joist, deck clips, corner bracket, joiner, hinge bracket and starter clip, bearer to joist clip).
EXOLUX will not be liable for any other claims in connection with the supply or use of the Product, including claims for loss, loss of income, economic loss, loss of profits or damage, loss of reputation or goodwill, loss of savings, indirect or consequential loss or damage, costs or expenses of any kind arising under any circumstances including those suffered through or resulting from defects caused by faulty manufacture or faulty material, or negligence or otherwise.

INCLUSIONS OF WARRANTY

EXOLUX provides a product warranty for the length of 10 years of normal use to the original purchaser (Proof of purchase must be retained). The period of the warranty will commence from the date of purchase as shown on receipt. EXOLUX will either supply replacement products or reimburse the purchaser for the portion of the original purchase price as outlined in the allocated warranty schedule.

EXCLUSIONS OF WARRANTY

- Other products or items used in conjunction to the ClickDeck® system including, decking boards, spas, furniture, water features, structures etc. built on or attached to deck system.
- Defects or failures caused by faulty workmanship, including preparation and installation by the claimant or their agents.
- Pedestals (Note* Pedestals are covered as per the policy of the supplier. Please refer to www.keksia.com.au for full details).
- Where the decking system has not been constructed in accordance with local building code, national standards, statutory regulations and local authority requirements.
- Acts of god (lightening, earthquake, flooding, storms) that have resulted in a failure of the system.
- Damage caused by the system being modified in any way or through the use of any non-ClickDeck® fasteners and brackets.
- Contact or coating with any incompatible materials.
- Where the system has not been installed in line with the ClickDeck installation guide/requirements.
- Where the system has not been installed in accordance with the ClickDeck® span table.
- Non-conformance with the Australian and New Zealand Standard 2312 (AS/NZS2312) and the associated requirements of the atmospheric conditions and the corrosivity of particular environmental factors.
- Poor or negligent maintenance of the product or non-compliance with the maintenance guide as provided by EXOLUX. The maintenance guide can be found on our website at www.clickdeck.com.au
- This warranty is only valid when accompanied by proof of purchase.
- This warranty is provided to the original purchaser of the product and is not transferrable or assignable, except to the owner of the property at which the product is installed.

AUSTRALIAN CONSUMER LAW

If you are a consumer under Australian Consumer Law the following provisions apply to you. Our Products come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The express warranties in this warranty are in addition to any other rights and remedies that you may have under Australian Consumer Law.

PRODUCT CARE

The ClickDeck® system is designed to be durable with minimal care, however it is important that you maintain the system in accordance with proper practices in order to obtain the full the benefit of the warranty system.
Please refer below for Australian and New Zealand Standard 2312 (AS/NZS2312 and the associated maintenance requirements:

Corrosivity Category	Corrosivity	Typical Outdoor environments	Care required
C1	(Very Low)	Alpine areas	Thoroughly rinse with fresh water and desalinator every 6 months.
C2	(Low)	Arid/rural/urban; at least 50km from coast of sources of pollution	Thoroughly rinse with fresh water and desalinator every 6 months.
C3	(Medium)	Coastal areas with low salinity	Thoroughly rinse with fresh water and desalinator every 6 months.
C4	(High)	Sea-shore (calm) up to 1km from coast	Thoroughly rinse with fresh water and desalinator every 3 months.
C5-I	(Very High - Industrial)	Aggressive Industrial areas, where environment may be acidic	Thoroughly rinse with fresh water and desalinator every 3 months.
C5-M	(Very High - Marine)	Offshore and beachfront (rough seas and surf beaches)	Thoroughly rinse with fresh water and desalinator every 3 months.
CX	(Extreme)	Shoreline (Severe Surf)	Thoroughly rinse with fresh water and desalinator every month.

ALLOCATED WARRANTY SCHEDULE

Corrosion Zone	Years since time of purchase	Percentage of purchase price covered
C1, C2, C3	1-5 years	100%
C1, C2, C3	6-10 years	50%
C4, C5, CX	1-5 years	50%
C4, C5, CX	6-10 years	25%

MAKING A WARRANTY CLAIM

To make a warranty claim, please contact our customer service team on:
p: 1300 043 921 | **e:** info@exolux.com.au

You will be required to:
a. Present your receipt/proof of purchase
b. State the issue/defect in the product
c. Provide an opportunity for the product to inspected

Contact & Get Started

For More Information & Orders:

Website: www.clickdeck.com.au

Email: info@exolux.com.au

Phone: 1300 043 921

Available in all states

EXOLUX DECKING PRODUCTS

BY EXOLUX CLICKDECK® MODULAR DECKING SYSTEM

Build with confidence
Build with Clickdeck®

EXOLUX

DECKING PRODUCTS

AVAILABLE AUSTRALIA WIDE

info@exolux.com.au

1300 921 043

clickdeck.com.au