

BY EXOLUX (R) CLICKDECKMODULAR DECKING SYSTEM

Framing installation Guide

- Specifications
- Connection details
- Deck supports
- Installation requirements



QUICK INFO GUIDE

Cutting:

We recommend an aluminium or multi material blade used in a dropsaw or grinder.

Safety:

Please ensure all PPE is worn

Foundations:

Ensure appropriate structural foundation is made under each pedestal or post to support deck loading.

Engineering:

General span calculations and engineering is available through us to assist with permits ect. Site specific engineering may be required which can be carried out by a licenced structural engineer.

Fastners:

All fixings shall be either stainless steel or B8 coated screws.

Aluminium contact points:

Aluminium bolted to concrete - Seperated with plastic or EPDM packer (Minimum 2mm clearance to concrete).

Aluminium encased in concrete - Concrete shall not be "rapidset" or contain lime and aluminium to be fully seperated by corrosion resistance paint or similar. Aluminium to steel - Steel to be HDG and packer to seperate contact point. Aluminium to natural ground - 5mm clearance.

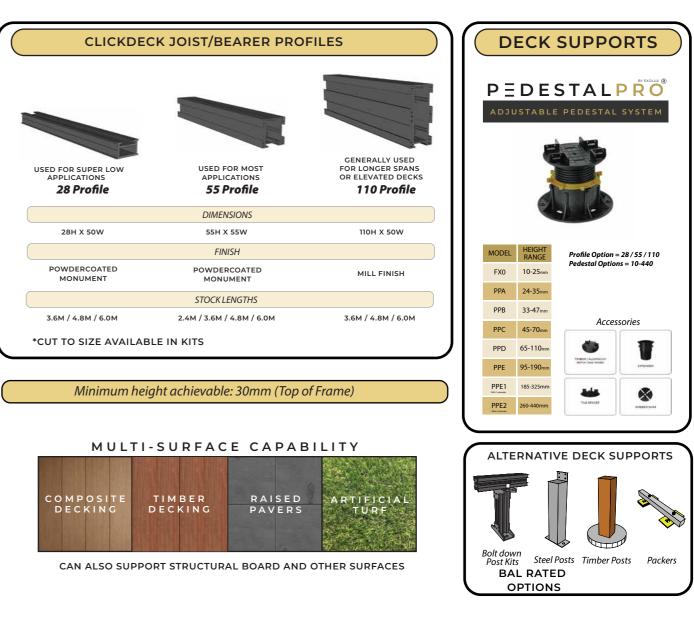
Loadings:

Standard loading for residental decks under 1m = 2kpa Live load and .2kpa dead load have been used. For all additional loading requirements contact us for a tailored design.

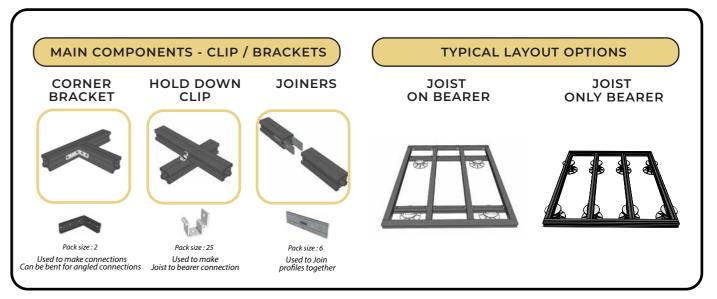
Project Design:

Installer shall verify all measurements and install as per relevant building code. This information is for guidance only and does not overrule building codes.

Do not overtighten hex screws Max torque 39 Nm Attention -

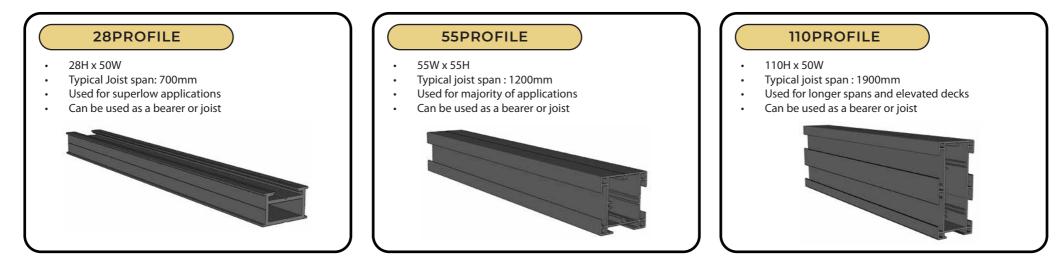






COMPONENTS

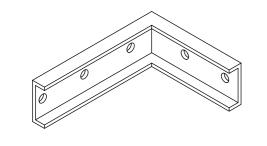
ALUMINIUM JOIST / BEARER



MAIN COMPONENTS

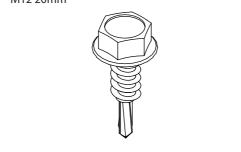
CORNER BRACKET

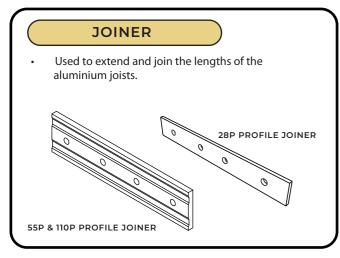
- The main bracket used make angled connections
- Can be bent to make non standard angles
- Works in all 3x profiles



HEX SCREW

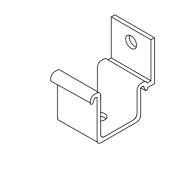
- Hex screw used to secure all components/brackets
- Marine Grade coated screw with EPDM washer
- M12 20mm



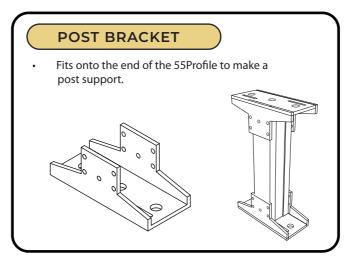


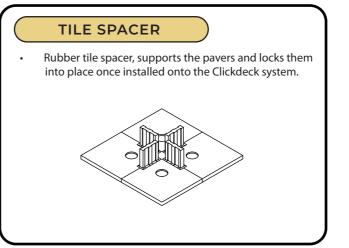
HOLD DOWN CLIP

• Used to fasten the joist to the bearer.



OTHER COMPONENTS

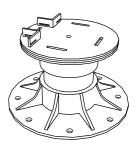




POWER PEDESTAL

Adjustable height support system

Heights from 10mm - 440mm



65mm HEX SCREW

- Long hex screw used to assemble stair kits
- Marine Grade coated screw with EPDM washer
- M12 65mm



COMPONENTS LIST

CLICKDECK PRODUCT LIST

JOIST / BEARER PROFILES

28 PROFILE (SIZE: 28H x 50W) Used for Super low decks	ltem Code 28-3600 28-4800 28-6000	Length 3600mm Length 4800mm Length 6000mm Length	Typical Span 700mm (Continious) Typical Cantilever 200mm	
55 PROFILE (SIZE: 55H x 55W) Used for most applications	Item Code 55-3600 55-3600 55-4800 55-6000	Length 2400mm Length 3600mm Length 4800mm Length 6000mm Length	Typical Span 1200mm (Continious) Typical Cantilever 250mm	
110 PROFILE (SIZE: 110H x 50W) Used for larger spans or elevated decks	Item Code 110-3600 110-4800 110-6000	Length 3600mm Length 4800mm Length 6000mm Length	Typical Span 2100mm (Continious) Typical Cantilever 400mm	

N	OF			
HOLD DOWN CLIP 25 Per Pack	Item Code HDC-25	Used to attach the joist to the bearer.		POST BRACKET Per Bracket
CORNER BRACKET 2 Per Pack	ltem Code CBKT-2	Used to make angled joins with all profiles	0000	TILE RUBBER STRIP 1m Strips
JOINERS 6 Per Pack	ltem Code JOINER28-6 JOINER55-6	Used to join the profiles together. 28Profile has its own model 55/110 shares the same model		LONG HEX SCREWS 25 Per Pack
HEX SCREWS 250 Per Pack	ltem Code HEX20-250	Used to fix all the brackets and clips	s,	

POWER PEDESTAL SYSTEM

Item Code	Height Range
FX0	10-25mm
PPA	24-35mm
PPB	33-47mm
РРС	45-70mm
PPD	65-110mm
PPE	95-190mm
PPE1	185-325mm
PPE2	260-440mm



OPTIONAL ACCESSORIES

Item Code

POSTBK

Item Code

RUBBER-1

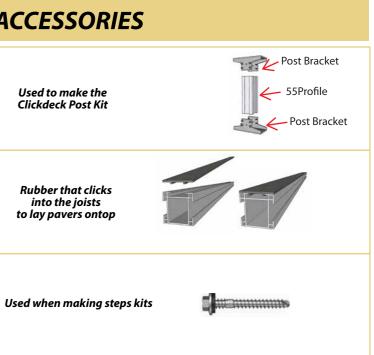
Item Code

HEX65-25





PP RANGE



SPAN TABLES

Site/load specific engineering available on request

FORM 126 Certification (VICTORIA) FORM 15 Certification (QLD)



SPAN TABLES

Standard Residential deck loading - Class A -- 2Kpa Live Load , 0.2Kpa Dead Load , 1.8 KN Point Load*

BASIC SPAN TABLE

Profile	Joist Span (recommended)	Bearer Span (recommended)	Cantilever (max)
28 x 50	600mm	600mm	200mm
55 x 55	1200mm	1200mm	250mm
110 x 50	1900mm	1700mm	400mm

25 Kna / 18 Pl - Stand:

2.5 Kpa / 1.8 PL - Standard Residential (Standard loading - ~3 People per SQM)

			2	8x50 - BEAF	RER
JOIST	SPACING: 45	Omm	JOIST SPAN	BEARER SPAN	CANTILEVER
	JOISTS		600	600/700*	200
PROFILE	SPAN	CANTILEVER	1000	550/650*	200
28x50	600/700*	200	1200	550/650*	200
55x55	1050/1200*	300	1500	550/650*	150
110x50	1900/2100*	500	1900	550/650*	150
			2100	500/650*	150

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

Alu261223

3.5 Kpa / 2.7 PL - (Commercial) (Standard loading)

			2	8x50 - BEAF	RER
JOIST	SPACING: 450	Omm	JOIST SPAN	BEARER SPAN	CANTILEVER
	JOISTS		500	450/550*	250
PROFILE	SPAN	CANTILEVER	1000	450/550*	150
28x50	450/500*	200	1200	450/550*	150
55x55	1000/1200*	300	1500	450/550*	150
110x50	1900/2100*	400	1900	450/550*	100
			2100	450/550*	100

Minimum back span length to be 4 times of the overhang length

*Continuous Span Alu261223

CLICKDECK SYSTEM IS A CERTIFIED ENGINEERED PRODUCT.

Contact our friendly team for more information

WE OFFER CUSTOM SITE SPECIFIC ENGINEEERING AND CERTIFICATION.

Contact our friendly team for more information

5	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				

Notes: Vibration check for 1.8 KN PL <2mm

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			

55x55 - BEARER					
SPAN	BEARER SPAN	CANTILEVER			
0	1100/1200*	300			
00	950/1150*	300			
00	950/1100*	250			
00	950/1000*	200			
00	850/850*	200			
00	850/850*	200			

1	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				

SPAN TABLES



Notes: Vibration check for 1.8 KN PL <2mm

For non standard projects please contact us for site specific engineering.

Structur	al Assessment	Barrason's Engineers Structural & Civil Design	BE
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 Sytem

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.

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

			2	8x50 - BEAF	RER
JOIST SPACING: 450mm			JOIST SPAN	BEARER SPAN	CANTILEVER
JOISTS		600	550/650*	200	
PROFILE	SPAN	CANTILEVER	1000	500/650*	150
28x50	550/700*	200	1200	500/650*	150
55x55	1050/1200*	300	1500	500/550*	100
110x50	1900/2100*	500	1900	450/450*	100
			2100	400/400*	100

5	55x55 - BEARER							
JOIST SPAN	BEARER SPAN	CANTILEVER						
600	1100/1200*	300						
1000	1000/1150*	250						
1200	950/1050*	250						
1500	900/950*	200						
1900	800/850*	250						
2100	800/800*	200						

Minimum back span length to be 4 times of the overhang length

*Continuous Span

4.5 Kpa / 3.6 kN PL - Podium decks, Walkways.

JOIST	JOIST SPACING: 450mm				
JOISTS					
PROFILE	SPAN	CANTILEVER			
28x50	400/450*				
55x55	900/1050*	300			
110x50	1900/2150*	400			

2	28x50 - BEAI	RER		5	5x55 -
JOIST SPAN	BEARER SPAN	CANTILEVER	1	JOIST SPAN	BEARER
				500	900/10
				1000	850/10
				1200	850/9
				1500	850/8
				1900	750/7
				2100	750/7

28x50 - BEARER

JOIST SPAN BEARER SPAN CANTILEVER

> 55x55 - BEARER R SPAN CANTILE 1050* 300 1000* 250 /950* 250 /850* 200 /750* 200 /750* 200

Minimum back span length to be 4 times of the overhang length -

*Continuous Span

5.5 Kpa / 4.5 kN PL - Public areas with trolley access

JOIST SPACING: 450mm					
JOISTS					
PROFILE	SPAN	CANTILEVER			
28x50	400/450*				
55x55	800/850*	250			
110x50	1900/2100*	300			

	55x55 - BEARER							
_	JOIST SPAN	JOIST SPAN BEARER SPAN						
	500	800/850*	300					
	1000	800/800*	250					
	1200	750/800*	250					
	1500	750/800*	200					
	1900	700/700*	200					
	2100	650/650*	200					

Minimum back span length to be 4 times of the overhang length

*Continuous Span

Kind	Regards,
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Andrew Barraclouch

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

- This consultant advice notice does not authorise any extension of time or cost variation.
 This consultant advice notice does not authorise any extension of time or cost variation, then they are to submit a claim in writing to the project manager and obtain approval prior to undertaining the nominated works.
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Barrason's Engineers A: Lvl 2-3, 2 Pacific Promenade, Pakenham, Vic, 3810 P: (03) 5940 2638 E: admir W: <u>www.b</u>/ ABN: 96 635 681 300

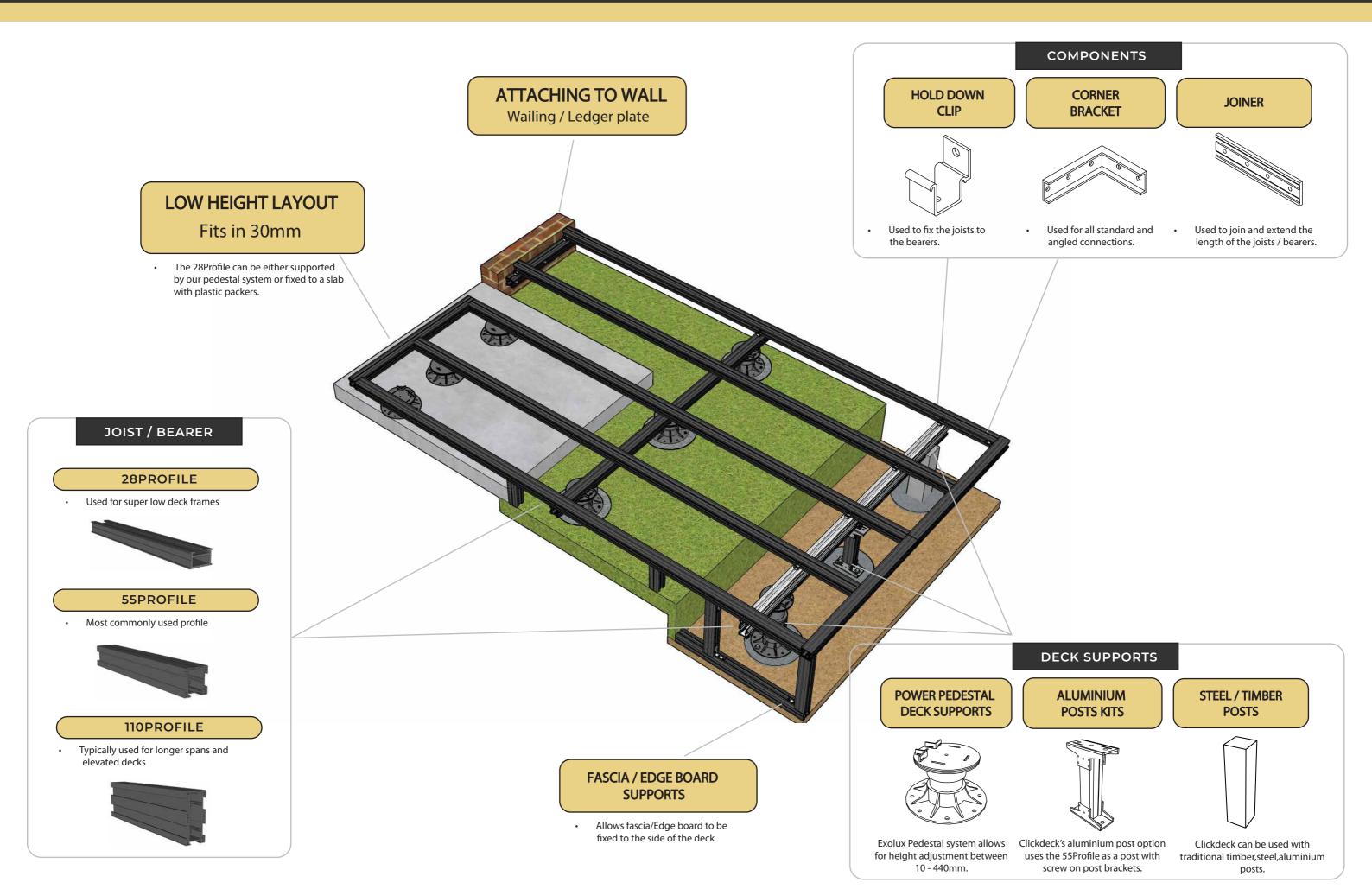
110x50 - BEARER								
JOIST SPAN	BEARER SPAN	CANTILEVER						
600	2200/2400*	400						
1000	1850/1900*	300						
1200	1750/1750*	300						
1500	1600/1600*	250						
1900	1400/1400*	250						
2100	1300/1300*	250						

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110x50 - BEARER							
JOIST SPAN	BEARER SPAN	CANTILEVER					
500	2000/2200*	350					
1000	1800/1800*	300					
1200	1650/1650*	300					
1500	1500/1500*	300					
1900	1300/1300*	300					
2100	1250/1250*	250					

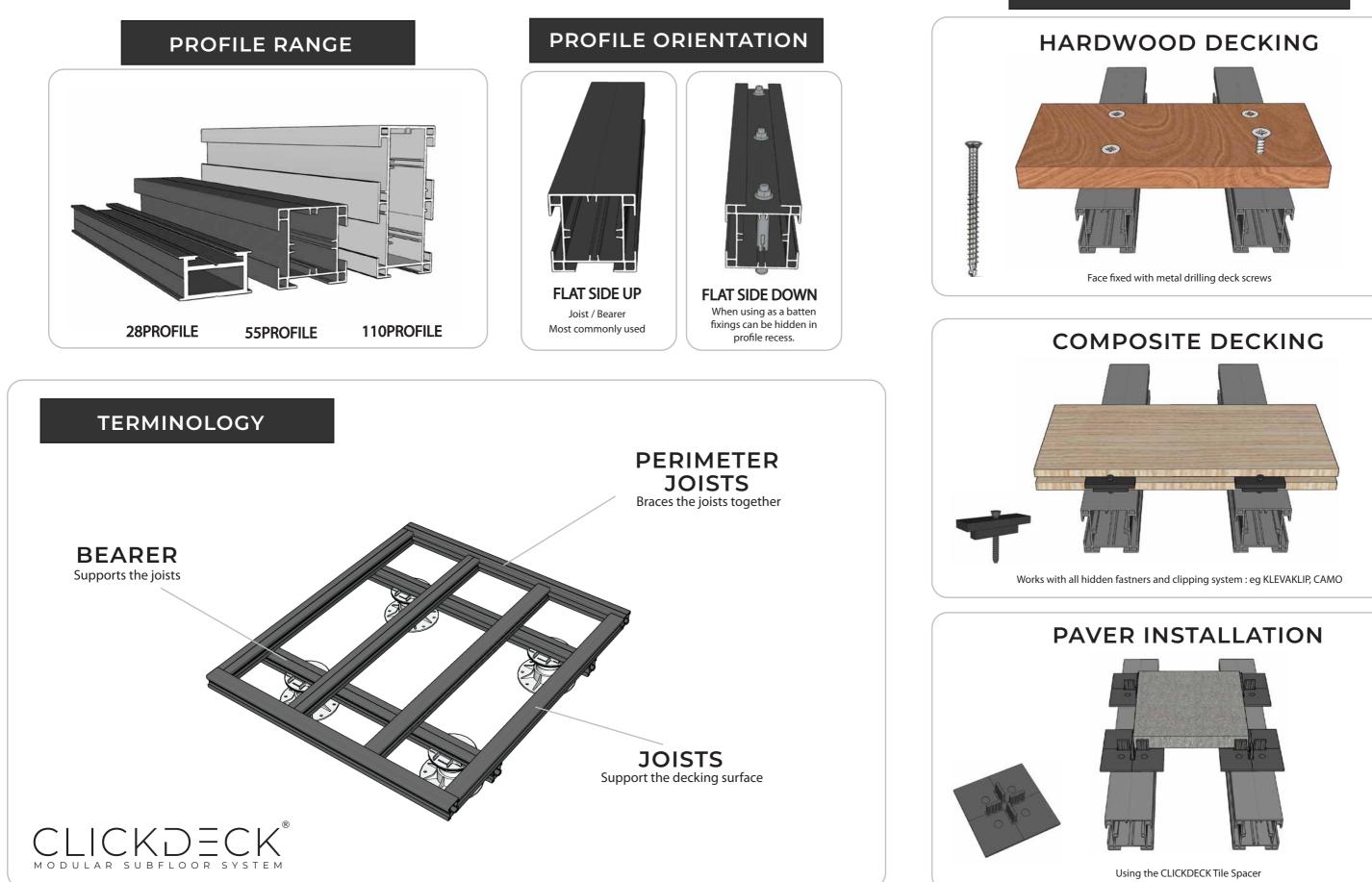
1	110x50 - BEARER							
JOIST SPAN	BEARER SPAN	CANTILEVER						
500	1900/2200*	300						
1000	1600/1600*	300						
1200	1500/1500*	300						
1500	1350/1350*	300						
1900	1200/1200*	300						
2100	1100/1100*	300						

THE VERSATILE SOLUTION



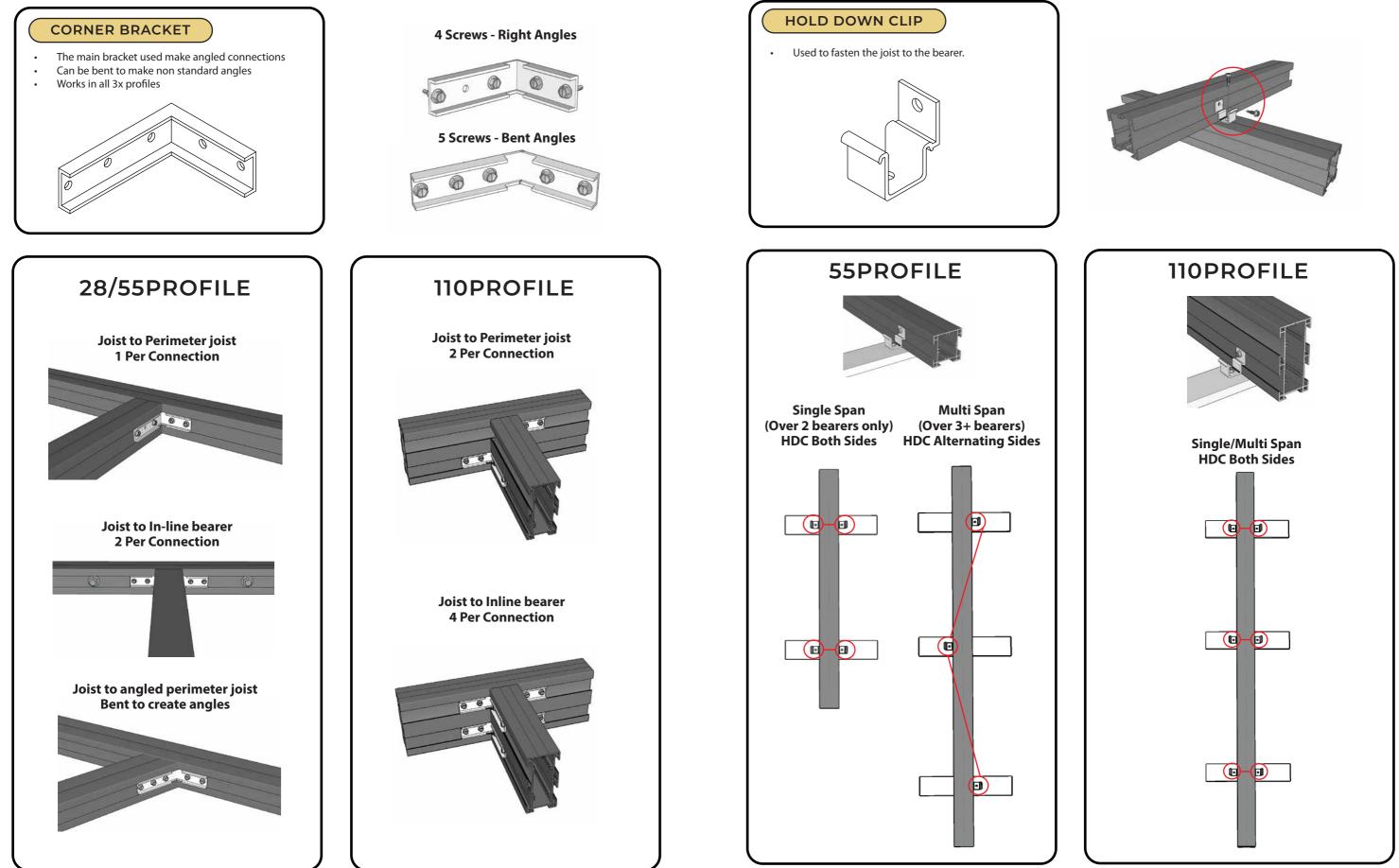
CONNECTION DETAIL

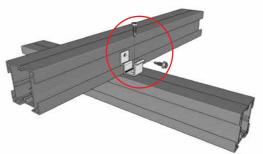




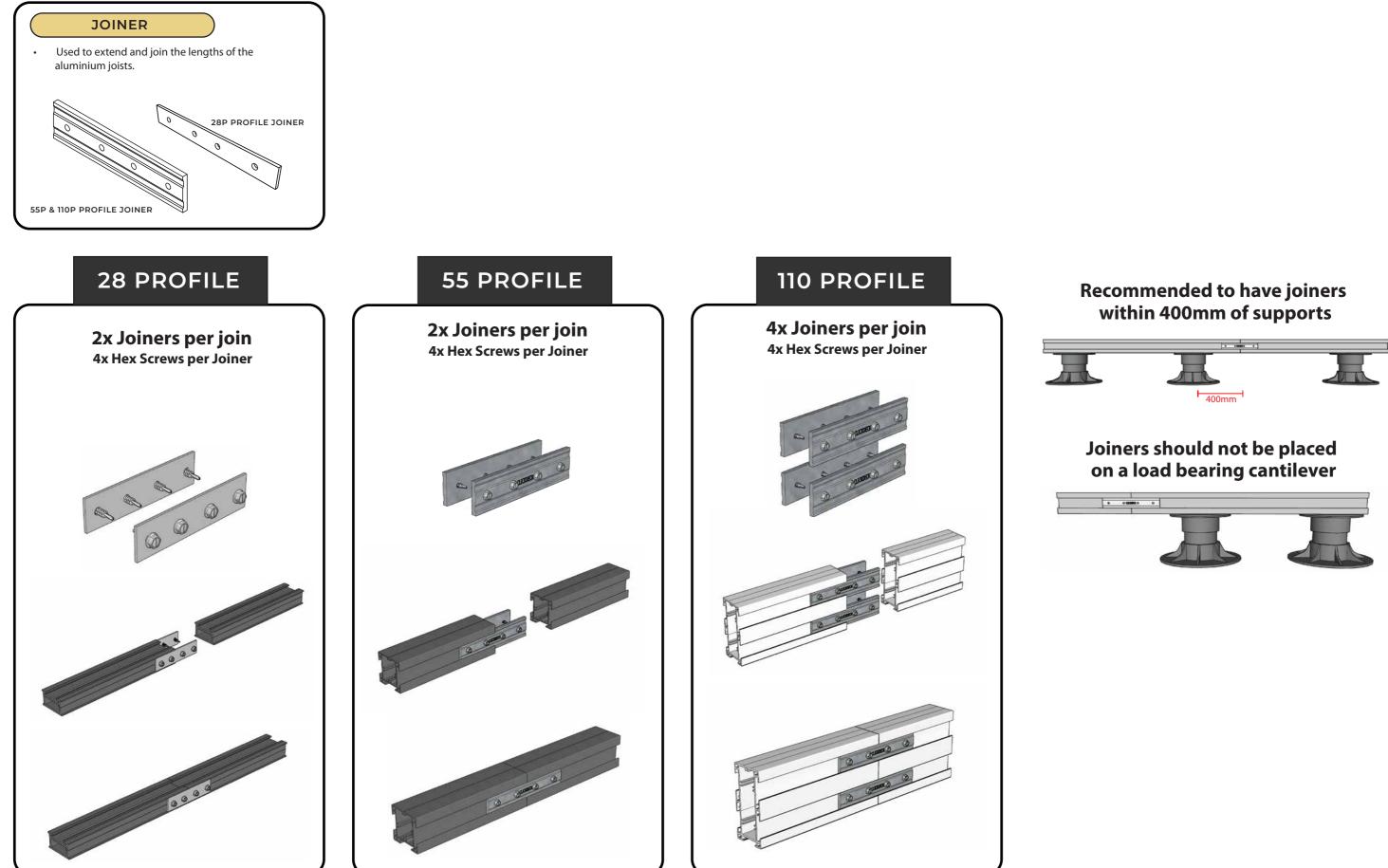
SURFACE INSTALLATION

CONNECTION DETAIL



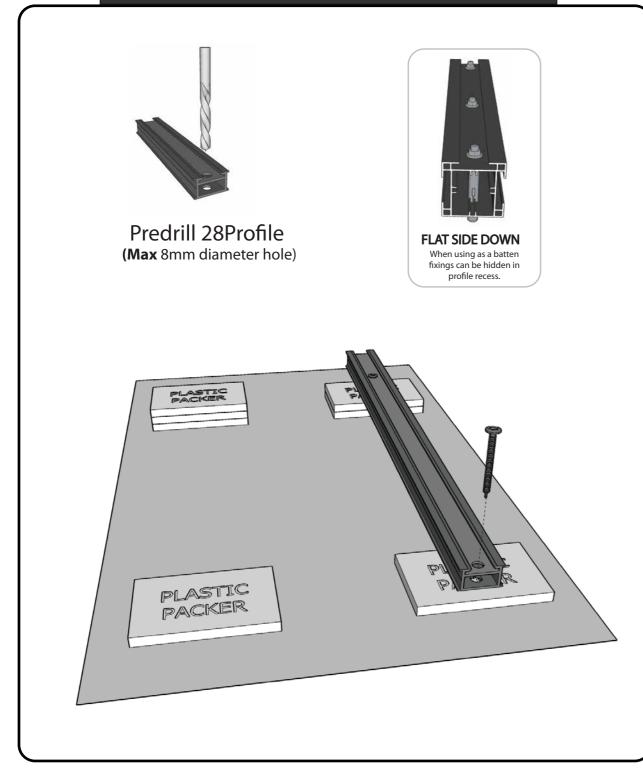


CONNECTION DETAIL



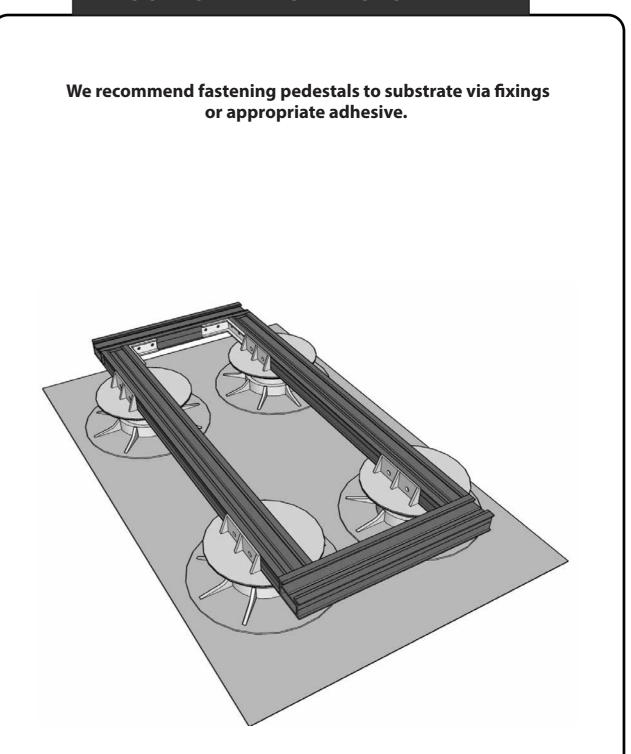
DECK SUPPORTS

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



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

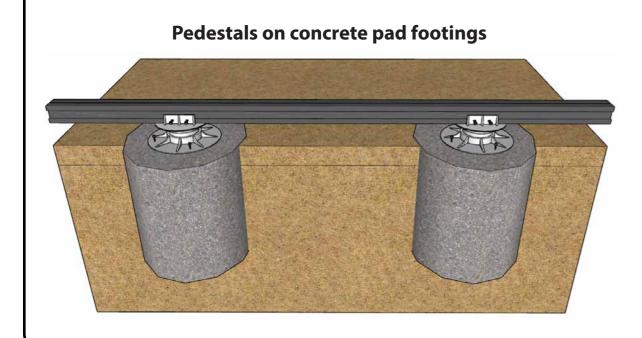
USING PEDESTAL SYSTEM

DECK SUPPORTS-POWER PEDESTAL SYSTEM

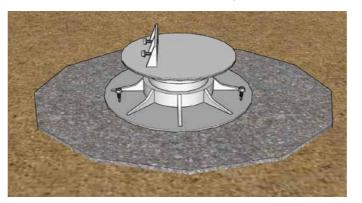
HEIGHT CHART

				Finished Floor Heights (includes 25mm deckboard + profile combination below)			(includes 25mm deckboard + profile combination belo	n below)
		MODEL NO.	Height Range	28 JOIST ONLY	55 JOIST ONLY	55 JOIST 55 BEARER	55JOIST 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
		РР В	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
2 >		PP E	95-190mm	148-243	175-270	230-325	285-380	340-435
		PP E + 1 EX	185-325mm	238-378	265-405	320-460	375-515	430-570
PP RANGE	FX0	PP E + 2 EX	260-440mm	313-493	340-520	395-575	450-630	505-685

ON CONCRETE PAD FOOTINGS



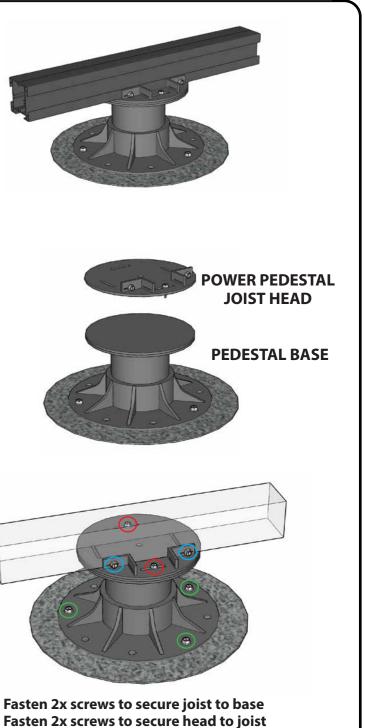
Pad footing (Typical detail) 350mm Diameter x Depth (Dependent on soil type)



F

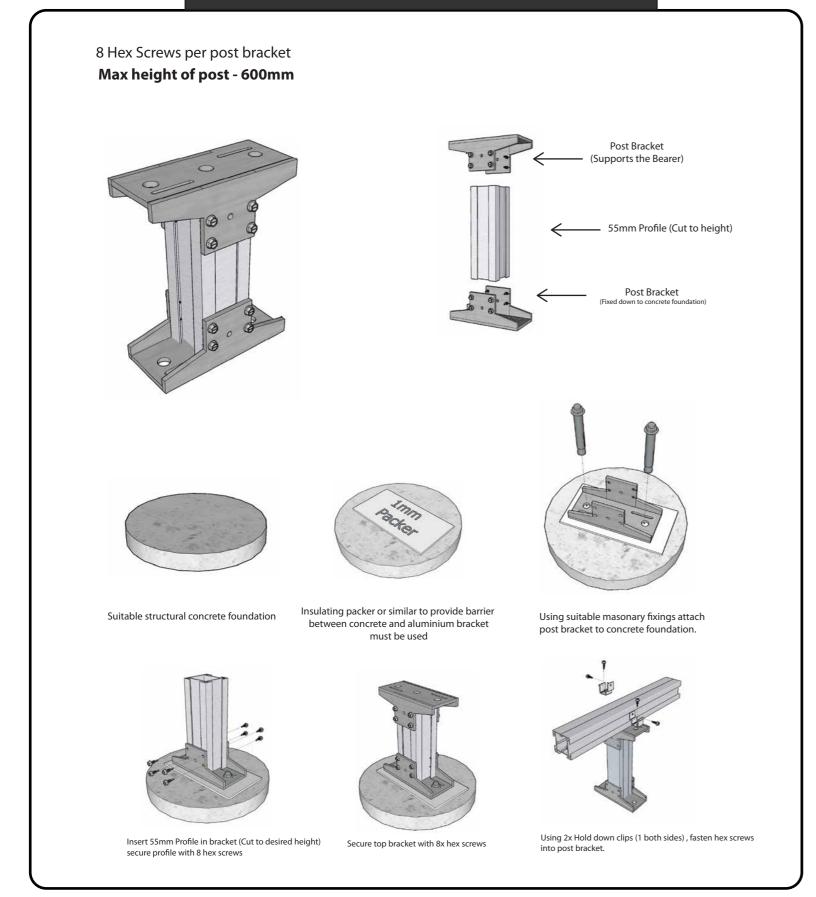
We recommend fastening pedestals to substrate via fixings or appropriate adhesive.

POWER PEDESTAL ASSEMBLY



DECK SUPPORTS-POSTS

CLICKDECK POST ASSEMBLY



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.

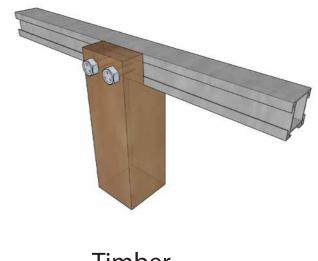
- Above 600mm height, a suitable timber or steel post maybe used.

- When attaching post bracket to concrete, an insulating packer or similar must be used to provide barrier between concrete and aluminium.

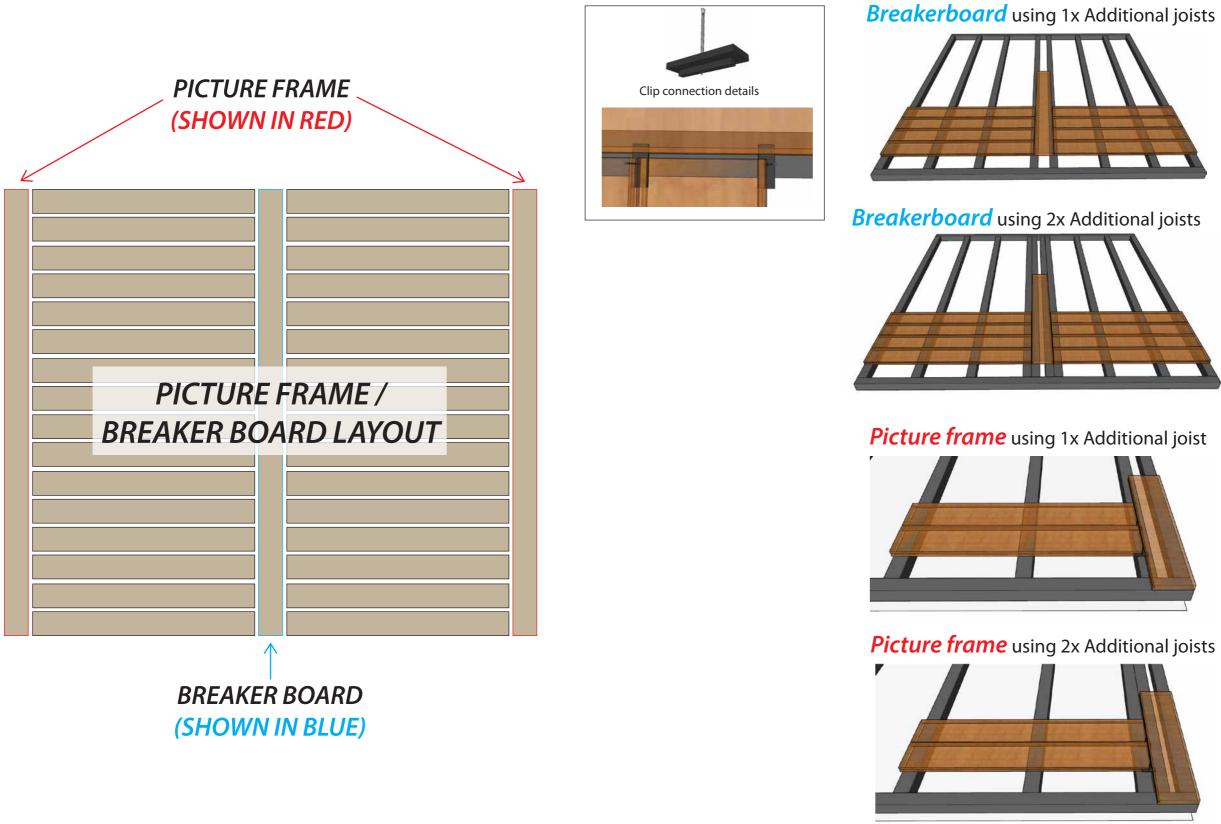
- It is recommended for the frame system to be attached to a perimeter wall or similar if possible.

Clickdeck can also be supported by:





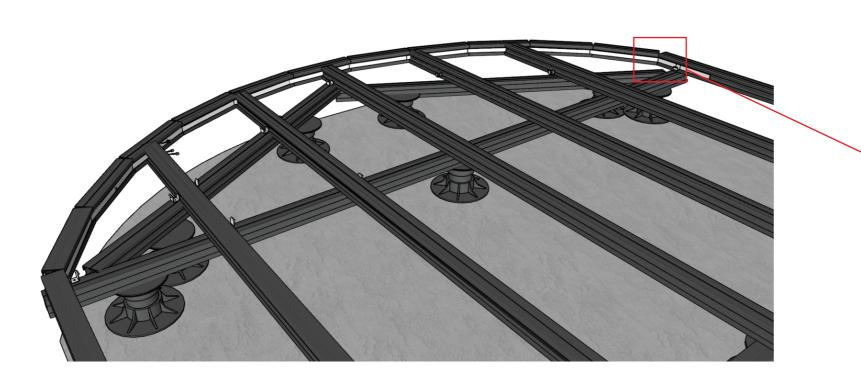
Timber Post

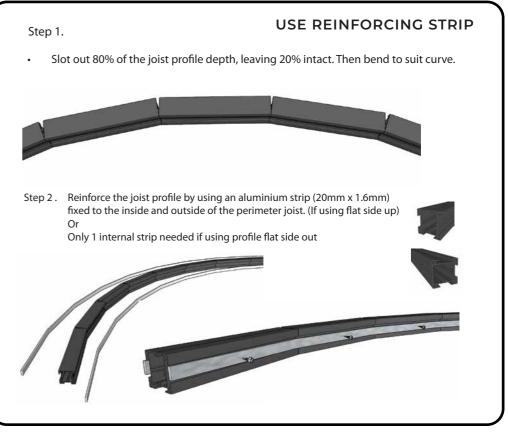


CURVED FRAMING



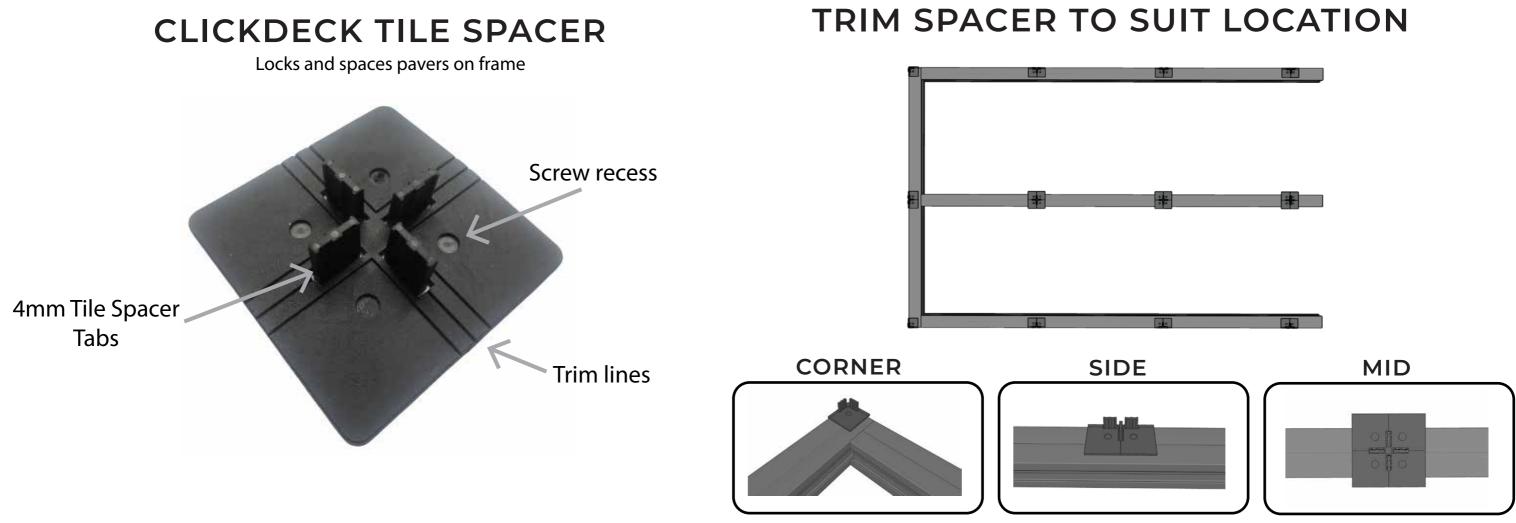
SLOT ALUMINIUM PROFILE

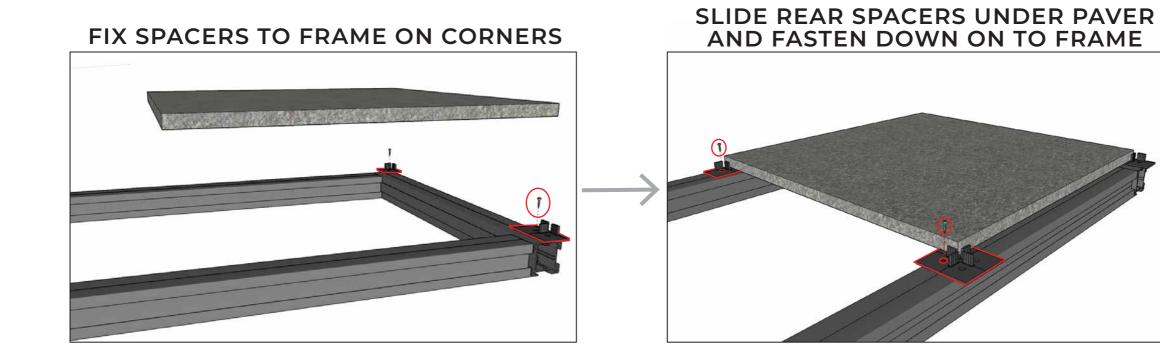




FOR DIRECT LOAD BEARING PERIMETER

RAISED PAVER / TILE INSTALL





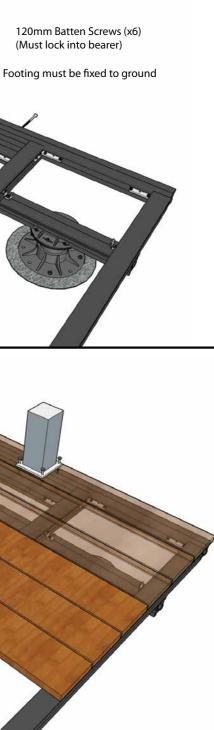


120mm Batten Screws (x6) (Must lock into bearer) Footing must be fixed to ground

TIMBER BLOCKING FOR HANDRAIL

Note: Please consult handrail engineer for installation requirements.

ALUMINIUM BLOCKING FOR HANDRAIL



FASCIA BOARD SUPPORT

