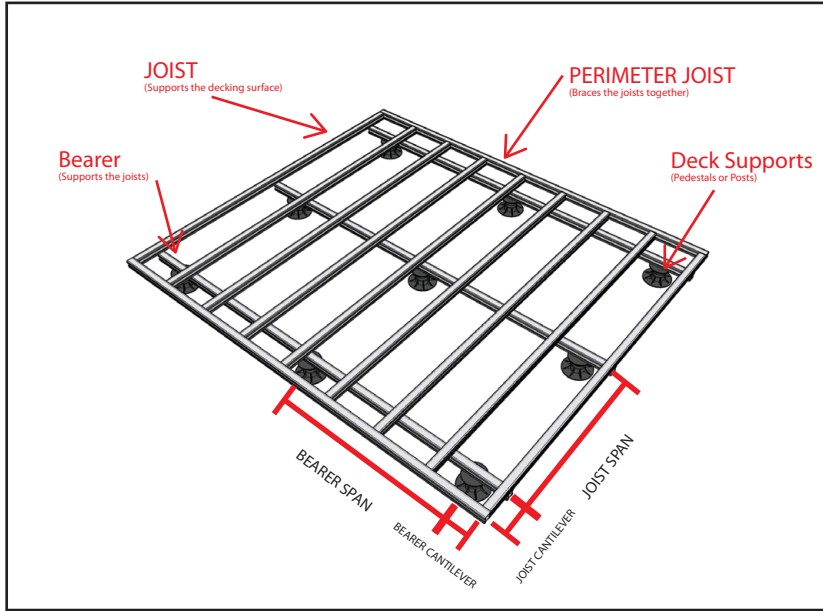
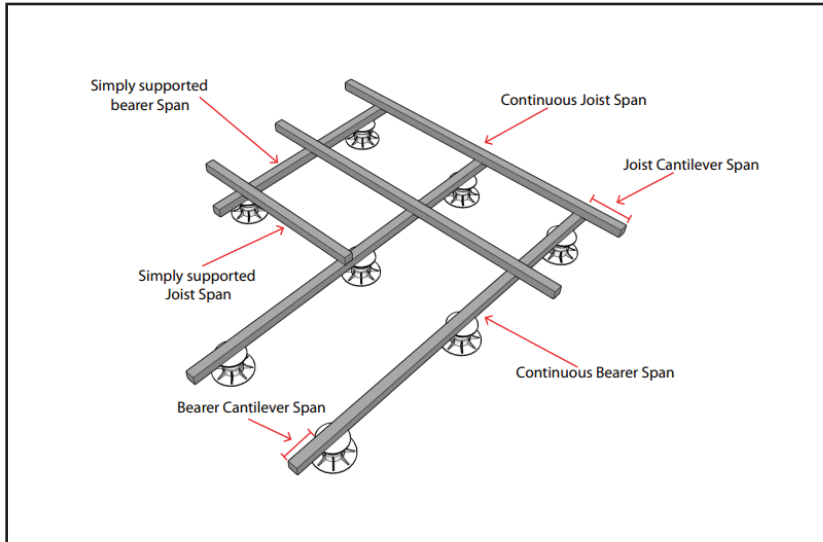


TERMINOLOGY



TERMINOLOGY



GUIDE TO READING SPAN TABLE (Example below)

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

JOIST SPACING: 450mm

JOISTS		
PROFILE	SPAN	CANTILEVER
28x50	600/700*	200
55x55	1050/1200*	300
110x50	1900/2100*	500

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

- Select joist profile
  - Joist Span shown here
  - Cantilevered joist allowable span shown here
  - Minimum back span length to be 4 times of front overhang length  
\*Continuous Span
  - Bearer span show here
  - Bearer cantilever shown here
  - 110x50 Bearer span shown here
- Cross reference the joist span used

For connection details please see design guide. (Available on our website)



ALUMINIUM PROFILES



28 Profile

55 Profile

110 Profile

### SPAN TABLES

Notes: Vibration check for 1.8 KN PL <2mm

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

JOIST SPACING: 450mm			28x50 - BEARER			55x55 - BEARER			110x50 - BEARER		
JOISTS			JOIST SPAN	BEARER SPAN	CANTILEVER	JOIST SPAN	BEARER SPAN	CANTILEVER	JOIST SPAN	BEARER SPAN	CANTILEVER
PROFILE	SPAN	CANTILEVER									
28x50	600/700*	200	600	600/700*	200	600	1200/1200*	300	600	2400/2600*	500
55x55	1050/1200*	300	1000	550/650*	200	1000	1150/1200*	300	1000	2150/2400*	500
110x50	1900/2100*	500	1200	550/650*	200	1200	1100/1200*	300	1200	2050/2200*	500
			1500	550/650*	150	1500	1050/1150*	250	1500	1900/1950*	400
			1900	550/650*	150	1900	950/1050*	250	1900	1700/1750*	400
			2100	500/650*	150	2100	950/1000*	200	2100	1600/1650*	400

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

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

JOIST SPACING: 450mm			28x50 - BEARER			55x55 - BEARER			110x50 - BEARER		
JOISTS			JOIST SPAN	BEARER SPAN	CANTILEVER	JOIST SPAN	BEARER SPAN	CANTILEVER	JOIST SPAN	BEARER SPAN	CANTILEVER
PROFILE	SPAN	CANTILEVER									
28x50	550/700*	200	600	550/650*	200	600	1100/1200*	300	600	2200/2400*	400
55x55	1050/1200*	300	1000	500/650*	150	1000	1000/1150*	250	1000	1850/1900*	300
110x50	1900/2100*	500	1200	500/650*	150	1200	950/1050*	250	1200	1750/1750*	300
			1500	500/550*	100	1500	900/950*	200	1500	1600/1600*	250
			1900	450/450*	100	1900	800/850*	250	1900	1400/1400*	250
			2100	400/400*	100	2100	800/800*	200	2100	1300/1300*	250

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

### SPAN TABLES

Notes: Vibration check for 1.8 KN PL <2mm

2.5 Kpa / 2.7 PL - (Standard low height deck loading)  
(Standard loading - ~3 People per SQM)

JOIST SPACING: 450mm

JOISTS		
PROFILE	SPAN	CANTILEVER
28x50	500/550*	200
55x55	1000/1200*	300
110x50	1900/2150*	400

28x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	450/550*	250
1000	450/550*	200
1200	450/550*	200
1500	450/550*	150
1900	450/550*	100
2100	450/550*	100

55x55 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	1100/1200*	300
1000	950/1150*	300
1200	950/1100*	250
1500	950/1100*	250
1900	900/1050*	250
2100	900/1000*	250

110x50 - BEARER		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	2200/2400*	400
1000	2050/2250*	400
1200	2000/2200*	300
1500	11800/1900*	300
1900	1700/1800*	300
2100	1600/1600*	250

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

3.5 Kpa / 2.7 PL - (Educational Facilities)  
(Standard loading)

JOIST SPACING: 450mm

JOISTS		
PROFILE	SPAN	CANTILEVER
28x50	450/500*	200
55x55	1000/1200*	300
110x50	1900/2100*	400

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		
JOIST SPAN	BEARER SPAN	CANTILEVER
500	1100/1200*	300
1000	950/1150*	300
1200	950/1100*	250
1500	950/1000*	200
1900	850/850*	200
2100	850/850*	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

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

### SPAN TABLES

Notes: Vibration check for 1.8 KN PL <2mm

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

JOIST SPACING: 450mm			28x50 - BEARER			55x55 - BEARER			110x50 - BEARER		
JOISTS			JOIST SPAN	BEARER SPAN	CANTILEVER	JOIST SPAN	BEARER SPAN	CANTILEVER	JOIST SPAN	BEARER SPAN	CANTILEVER
PROFILE	SPAN	CANTILEVER									
28x50						500	900/1050*	300	500	2000/2200*	350
55x55	900/1050*	300				1000	850/1000*	250	1000	1800/1800*	300
110x50	1900/2150*	400				1200	850/950*	250	1200	1650/1650*	300
						1500	850/850*	200	1500	1500/1500*	300
						1900	750/750*	200	1900	1300/1300*	300
						2100	750/750*	200	2100	1250/1250*	250

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

5.5 Kpa / 5 kN PL - Public areas with trolley access

JOIST SPACING: 450mm			28x50 - BEARER			55x55 - BEARER			110x50 - BEARER		
JOISTS			JOIST SPAN	BEARER SPAN	CANTILEVER	JOIST SPAN	BEARER SPAN	CANTILEVER	JOIST SPAN	BEARER SPAN	CANTILEVER
PROFILE	SPAN	CANTILEVER									
28x50						500	800/850*	300	500	1900/2200*	300
55x55	800/850*	250				1000	800/800*	250	1000	1600/1600*	300
110x50	1900/2100*	300				1200	750/800*	250	1200	1500/1500*	300
						1500	750/800*	200	1500	1350/1350*	300
						1900	700/700*	200	1900	1200/1200*	300
						2100	650/650*	200	2100	1100/1100*	300

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

**Barrason's Engineers**  
Structural & Civil Design



### Structural Assessment

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

**From:** Andrew Barraclough      **Date:** 20/02/2023

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.

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.

Please contact us for a copy of the available certificates

Form 126 - (Victoria) Certification compliant

Form 15 - (QLD) Certification compliant

NSW Building certificate