MAN002 – Pacdeck Load Capacity Tables

Concrete thickness (mm) for Pacdeck - 0.75mm

(rib deflections limited to L/150)

L (mm)	1 Span	2 Spans	3 Spans	4 Spans	5 Spans
1000	250	250	250	250	250
1050	250	250	250	250	250
1100	250	250	250	250	250
1150	250	250	250	250	250
1200	250	250	250	250	250
1250	250	250	250	250	250
1300	250	250	250	250	250
1350	250	250	250	250	250
1400	247	247	250	250	250
1450	233	233	250	250	250
1500	220	220	250	250	250
1550	208	208	249	236	240
1600	197	197	236	224	227
1650	187	187	224	213	215
1700	178	178	213	202	205
1750	170	170	203	192	195
1800	162	162	193	183	186
1850	154	154	184	175	177
1900	148	148	176	167	169
1950	141	141	168	159	161
2000	124	135	161	152	154

Note: Read this table in conjunction with the Span Table Notes below.

Concrete thickness (mm) for Pacdeck - 1.0mm

(rib deflections limited to L/150)

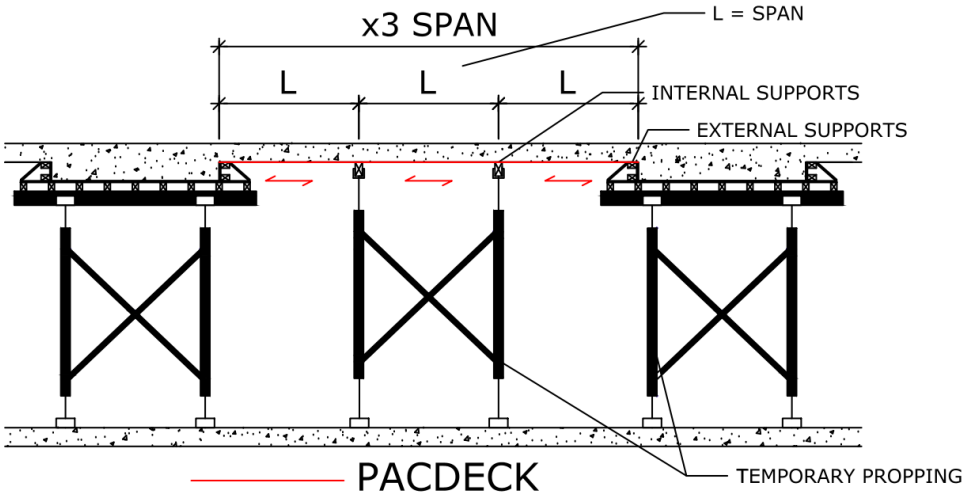
L (mm)	1 Span	2 Spans	3 Spans	4 Spans	5 Spans
1000	250	250	250	250	250
1050	250	250	250	250	250
1100	250	250	250	250	250
1150	250	250	250	250	250
1200	250	250	250	250	250
1250	250	250	250	250	250
1300	250	250	250	250	250
1350	250	250	250	250	250
1400	250	250	250	250	250
1450	250	250	250	250	250
1500	250	250	250	250	250
1550	250	250	250	250	250
1600	250	250	250	250	250
1650	250	250	250	250	250
1700	250	250	250	250	250
1750	250	250	250	250	250
1800	250	250	250	250	250
1850	245	245	250	250	250
1900	235	235	250	250	250
1950	225	225	250	250	250
2000	206	215	250	243	246

Note: Read this table in conjunction with the Span Table Notes below.

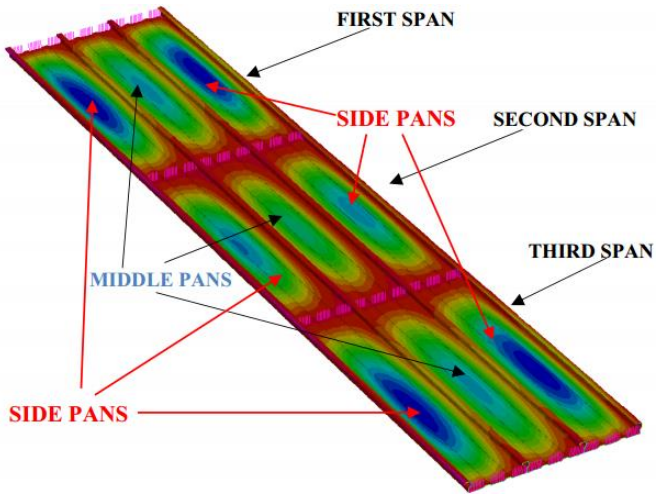
Span Definitions

i. **1 Span** - where single lengths of Pacdeck span between two end supports, where "L" is the centre to centre distance between the end supports.
ii. **2 Spans -** where single lengths of Pacdeck span between two end supports with one centrally located internal support, where "L" is the centre to centre distance between an end support and the internal support.
iii. **3 Spans** - where single lengths of Pacdeck span between two end supports with two evenly located internal supports, where "L" is the centre to centre distance between each adjacent support.
iv. **4 and 5 Spans** – similar to 3 Spans but with additional internal supports.

Typical Section



Span & Pan Terminology



General notes

1. Tables are based on normal concrete density of 2400kg/cubic metre
2. End and internal supports are to be a minimum of 77mm wide. All supports are to be continuous across the full width of the sheeting.
3. No cutting, joining, or splicing of sheets unless certified by an engineer.
4. Concrete thickness is limited either by the strength of the sheet or by an approximate rib deflection limit of L/150.
5. Tables are based on rib deflection, NOT pan deflection.
6. Pacdeck is to be installed in an as new condition by competent tradespeople.
7. Tables are to be used in conjunction with the below maximum loads;
   i. DEAD LOAD = Concrete Weight.
   ii. LIVE LOAD = 1 KPa OR 3 KPa over a 1.6m X 1.6m area.
8. Supports shall be effectively rigid and strong enough to support the loads. Deflection of supports is not considered and is the responsibility of the installer.
9. The side or end pans (the first and last sheets) are to bear a minimum of 50mm on to a continuous support.
10. Pacdeck to be secured at the end of every sheet, failing to do so can result in wind uplift, excessive distortion and structural failure. Suitable fixing methods include spot welds, self-drilling screws and drive nails.
11. Pacdeck is cut to size with a tolerance of +/- 1mm
12. Stacked loads are not to be imposed on to Pacdeck prior to or after concrete place unless approved by an engineer.
13. The sheeting shall not have cantilever portions.
14. Additional propping is required where Pacdeck has been cut for penetrations.
15. The information contained in this document is intended for guidance only. This information is to be installed in conjunction with a consulting structural engineer.
16. Pacdeck is not to be used as a composite formwork unless approved by the project design engineer.
17. Pacdeck has not been tested as a fire rated product.
18. Pacdeck is made of G550 steel and dimensions are as per sections tested by the University of Sydney.
19. Tables rely on University of Sydney, School of Civil Engineering Investigation Report S1614, June 2014.

22/04/2015 . The calculation of these Pacdeck Span Tables as defined by and limited by the General Notes and Span Definitions above comply with AS3610-1995 Formwork Code.

Greg McSwiggan RPEQ NPER

On Behalf of Queensland Formwork Engineers Pty Ltd.

In making this certification we have relied upon the University of Sydney, School of Civil Engineering Investigation Report S1614, June 2014.

This certificate shall not be construed as relieving any other party of their responsibilities.

This certification expires in 4 years from the above date when it should be reviewed before being renewed. (We also reserve the right to make changes at any time).