



Single Span – L/240 Deflection Limit

Slab Thickness (mm)	Unpropped	Unpropped	Unpropped	1 Row of Props	1 Row of Props	1 Row of Props	2 Rows of Props	2 Rows of Props	2 Rows of Props
	0.60mm	0.75mm	1.00mm	0.60mm	0.75mm	1.00mm	0.60mm	0.75mm	1.00mm
100	1900	2100	2300	4000	4000	4000	4000	4000	4000
110	1850	2000	2200	4400	4400	4400	4400	4400	4400
120	1800	1950	2150	4450	4800	4800	4800	4800	4800
130	1700	1900	2100	4350	5200	5200	5200	5200	5200
140	1650	1850	2050	4250	5200	5600	5600	5600	5600
150	1600	1800	2000	4150	5100	5650	6000	6000	6000
160	1550	1750	1950	4050	4950	5550	5900	6400	6400
170	1550	1700	1900	4000	4850	5400	5700	6600	6800
180	1500	1650	1850	3900	4750	5300	5550	6400	7200
190	1450	1600	1850	3850	4650	5200	5450	6300	7050
200	1450	1550	1800	3800	4550	5100	5300	6150	6900
210	1400	1550	1750	3700	4450	5000	5200	6000	6750
220	1350	1500	1700	3650	4350	4900	5100	5900	6650
230	1350	1500	1700	3600	4300	4800	4950	5800	6550
240	1300	1450	1650	3550	4200	4700	4850	5650	6450
250	1300	1450	1600	3500	4150	4650	4800	5550	6350

Two Spans – L/240 Deflection Limit

mm	0.60mm	0.75 mm	1.00mm	0.60mm	0.75 mm	1.00mm	0.60mm	0.75mm	1.00mm
100	2350	2700	3000	4000	4000	4000	4000	4000	4000
110	2250	2650	2900	4400	4400	4400	4400	4400	4400
120	2200	2550	2850	4350	4800	4800	4800	4800	4800
130	2150	2500	2750	4200	4800	5200	5200	5200	5200
140	2100	2450	2700	4050	4650	5150	5600	5600	5600
150	2050	2350	2650	3950	4500	5000	5900	6000	6000
160	2000	2300	2550	3800	4400	4900	5750	6400	6400
170	1950	2250	2500	3700	4300	4800	5600	6450	6800
180	1900	2200	2450	3600	4150	4700	5450	6250	7050
190	1850	2150	2400	3500	4050	4600	5300	6100	6900
200	1800	2100	2350	3450	4000	4500	5150	6000	6750
210	1750	2050	2300	3350	3900	4400	5050	5850	6650
220	1750	2000	2250	3300	3800	4350	4950	5750	6500
230	1700	1950	2200	3200	3750	4250	4850	5650	6400
240	1650	1950	2200	3150	3700	4200	4750	5550	6300
250	1650	1900	2150	3100	3600	4100	4650	5450	6200

Three Spans – L/240 Deflection Limit

mm	0.60mm	0.75 mm	1.00mm	0.60mm	0.75 mm	1.00mm	0.60mm	0.75 mm	1.00mm
100	2300	2550	2850	4000	4000	4000	4000	4000	4000
110	2200	2500	2750	4400	4400	4400	4400	4400	4400
120	2100	2400	2650	4350	4800	4800	4800	4800	4800
130	2050	2350	2600	4200	4800	5200	5200	5200	5200
140	1950	2250	2500	4050	4650	5150	5600	5600	5600
150	1900	2200	2450	3950	4500	5000	5900	6000	6000
160	1850	2150	2400	3800	4400	4900	5750	6400	6400
170	1800	2100	2350	3700	4300	4800	5600	6450	6500
180	1750	2050	2300	3600	4150	4700	5450	6250	6500
190	1700	2000	2250	3500	4050	4600	5300	6100	6500
200	1650	1950	2200	3450	4000	4500	5150	6000	6500
210	1650	1900	2150	3350	3900	4400	5050	5850	6500
220	1600	1850	2100	3300	3800	4350	4950	5750	6500
230	1550	1800	2050	3200	3750	4250	4850	5650	6400
240	1550	1800	2050	3150	3700	4200	4750	5550	6300
250	1500	1750	2000	3100	3600	4100	4650	5450	6200

Single Span – L/130 Deflection Limit

Slab Thickness (mm)	Unpropped	Unpropped	Unpropped	1 Row of Props	1 Row of Props	1 Row of Props	2 Rows of Props	2 Rows of Props	2 Rows of Props
	(mm)	0.75 mm	1.00mm	0.60mm	0.75mm	1.00mm	0.60mm	0.75mm	1.00mm
100	2050	2500	2750	4000	4000	4000	4000	4000	4000
110	2000	2450	2650	4400	4400	4400	4400	4400	4400
120	1950	2350	2600	4400	4800	4800	4800	4800	4800
130	1900	2300	2550	4300	5200	5200	5200	5200	5200
140	1850	2250	2500	4200	5100	5600	5600	5600	5600
150	1850	2200	2450	4100	5000	6000	6000	6000	6000
160	1800	2200	2400	4050	4900	6350	6050	6400	6400
170	1750	2150	2350	3950	4800	6200	5950	6800	6800
180	1750	2100	2300	3900	4750	6100	5850	7100	7200
190	1700	2050	2250	3800	4650	6000	5750	7000	7600
200	1700	2050	2250	3750	4550	5900	5650	6850	8000
210	1650	2000	2200	3700	4500	5800	5550	6750	8400
220	1650	2000	2150	3650	4400	5700	5450	6650	8450
230	1600	1950	2150	3600	4350	5600	5400	6550	8350
240	1600	1900	2100	3550	4300	5500	5300	6450	8200
250	1550	1850	2100	3500	4200	5450	5250	6450	8100

Two Spans – L/130 Deflection Limit

mm	0.60mm	0.75mm	1.00mm	0.60mm	0.75mm	1.00mm	0.60mm	0.75mm	1.00mm
100	2300	2800	3550	4000	4000	4000	4000	4000	4000
110	2250	2750	3500	4400	4400	4400	4400	4400	4400
120	2200	2650	3400	4400	4800	4800	4800	4800	4800
130	2150	2600	3350	4300	5200	5200	5200	5200	5200
140	2100	2550	3250	4200	5100	5600	5600	5600	5600
150	2050	2500	3200	4100	5000	6000	6000	6000	6000
160	2000	2450	3150	4050	4900	6050	6050	6400	6400
170	1950	2400	3100	3950	4800	5950	5950	6800	6800
180	1950	2350	3050	3900	4750	5850	5850	7100	7200
190	1900	2300	3000	3800	4650	5750	5750	7000	7600
200	1850	2250	2950	3750	4550	5700	5650	6850	8000
210	1850	2250	2900	3700	4500	5600	5550	6750	8400
220	1800	2200	2850	3650	4400	5500	5450	6650	8300
230	1800	2150	2800	3600	4350	5450	5400	6550	8150
240	1750	2150	2750	3550	4300	5350	5300	6450	8000
250	1750	2100	2700	3500	4200	5250	5250	6350	7900

Three Spans – L/130 Deflection Limit

mm	0.60 mm	0.75 mm	1.00 mm	0.60 mm	0.75 mm	1.00 mm	0.60 mm	0.75 mm	1.00 mm
100	2300	2800	3400	4000	4000	4000	4000	4000	4000
110	2250	2750	3300	4400	4400	4400	4400	4400	4400
120	2200	2650	3200	4400	4800	4800	4800	4800	4800
130	2150	2600	3150	4300	5200	5200	5200	5200	5200
140	2100	2550	3100	4200	5100	5600	5600	5600	5600
150	2050	2500	3050	4100	5000	6000	6000	6000	6000
160	2000	2450	2950	4050	4900	6050	6050	6400	6400
170	1950	2400	2900	3950	4800	5950	5950	6500	6500
180	1950	2350	2850	3900	4750	5850	5850	6500	6500
190	1900	2300	2850	3800	4650	5750	5750	6500	6500
200	1850	2250	2800	3750	4550	5700	5650	6500	6500
210	1850	2250	2750	3700	4500	5600	5550	6500	6500
220	1800	2200	2700	3650	4400	5500	5450	6500	6500
230	1800	2150	2650	3600	4350	5450	5400	6500	6500
240	1750	2150	2600	3550	4300	5350	5300	6450	6500
250	1750	2100	2550	3500	4200	5250	5250	6350	6500

Armourdeck™ 600 Span Table Guidelines

- The spans shown in these tables are the maximum permissible formwork spans (in millimetres) between permanent supports, for unpropped spans and with one or two rows of temporary props.
- Allowance has been made for a construction live load of 1.0 kPa as per AS3610-1995 clause 4.4.2.3. Deflections have been calculated taking into account the self-weight of the steel sheeting, the weight of wet concrete (2400 kg/m³) and the possibility of ponding.
- Allowance has been made for a vertical live load from stacked materials of 4.0 kPa during the construction phase, as per AS3610-1995 clause 4.4.2.4.
- A limit on the slab span-to-thickness ratio of 40 has been applied to single-span slabs. Values greater than this may be achieved, pending consultation with a structural engineer.

Span Table Notes

- The formwork span tables are based on the following parameters:
- Concrete density of 2400 kg/m³.
- Support bearers extending across the full width of the sheeting.
- Temporary props, where used, spaced equally within a span.
- Minimum bearer width of 50mm at each end of the sheets and 100mm at intermediate props.
- The following maximum loads have been assumed during the construction phase:
- Workers and equipment = 100 kg/m².

- Mounding of concrete = 100 kg/m² over one area of 1.6 × 1.6m.
- Stacked material on the deck before placing concrete = 100 kg/m².

The following limitations apply:

- The ratio of two adjacent slab span lengths does not exceed 1.2.
- The sheets are not spliced or jointed.
- The sheeting has no cantilevered sections.
- Fixing of sheeting to temporary and permanent supports is adequate.
- Deflection of supports is ignored. It is assumed that temporary and permanent supports are effectively rigid and strong enough to support construction loads.
- Wet concrete deflection = span/240 or span/130, where the span is the unsupported distance between the centre of temporary props or permanent supports.
- Where the sheeting is to be left exposed, 300mm-wide sheets of formply are placed on top of prop bearers to minimise prop marks.

The information contained in this publication is intended for guidance only. This information is to be used only in conjunction with advice from a qualified structural engineer.

Further details are available from Big River Group.



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