

Normal Weight Concrete Load Tables

All values are mesh as shown and 16mm diameter bar at 60mm height.

Unpropped - Normal Weight Concrete - Gauge = 1.20mm (Steel - 350N/mm²)

Slab Depth (mm)	Concrete Volume (m ³)	Minimum Mesh Size	Maximum Span (m)				
			Total Applied Load (kN/m ²)				
			4.0	6.0	8.0	10.0	12.0
215	0.128	A142	5.74	5.74	5.74	5.64	5.33
225	0.138	A142	5.67	5.67	5.67	5.67	5.46
235	0.148	A193	5.58	5.58	5.58	5.58	5.58
245	0.158	A193	5.50	5.50	5.50	5.50	5.50
255	0.168	A193	5.43	5.43	5.43	5.43	5.43
265	0.178	A252	5.35	5.35	5.35	5.35	5.35
275	0.188	A252	5.30	5.30	5.30	5.30	5.30
285	0.198	A252	5.24	5.24	5.24	5.24	5.24
295	0.208	A393	5.17	5.17	5.17	5.17	5.17
305	0.218	A393	5.08	5.08	5.08	5.08	5.08

Unpropped - Normal Weight Concrete - Gauge = 1.50mm (Steel - 350N/mm²)

Slab Depth (mm)	Concrete Volume (m ³)	Minimum Mesh Size	Maximum Span (m)				
			Total Applied Load (kN/m ²)				
			4.0	6.0	8.0	10.0	12.0
215	0.128	A142	6.07	6.07	6.07	5.72	5.38
225	0.138	A142	6.00	6.00	6.00	6.00	5.68
235	0.148	A193	5.92	5.92	5.92	5.92	5.92
245	0.158	A193	5.85	5.85	5.85	5.85	5.85
255	0.168	A193	5.77	5.77	5.77	5.77	5.77
265	0.178	A252	5.70	5.70	5.70	5.70	5.70
275	0.188	A252	5.63	5.63	5.63	5.63	5.63
285	0.198	A252	5.57	5.57	5.57	5.57	5.57
295	0.208	A393	5.51	5.51	5.51	5.51	5.51
305	0.218	A393	5.46	5.46	5.46	5.46	5.46

Propped, Mid Span - Normal Weight Concrete - Gauge = 1.50mm (Steel - 350N/mm²)

Slab Depth (mm)	Concrete Volume (m ³)	Minimum Mesh Size	Maximum Span (m)				
			Total Applied Load (kN/m ²)				
			4.0	6.0	8.0	10.0	12.0
215	0.128	A142	6.45	6.45	6.30	*	*
225	0.138	A142	6.75	6.75	6.70	*	*
235	0.148	A193	7.05	7.05	6.93	*	*
245	0.158	A193	7.35	7.35	6.99	*	*
255	0.168	A193	7.65	7.65	7.05	6.01	*
265	0.178	A252	7.95	7.95	7.08	6.06	*
275	0.188	A252	8.25	8.25	7.12	6.10	*
285	0.198	A252	8.55	8.42	7.14	6.15	*
295	0.208	A393	8.85	8.50	7.17	6.18	*
305	0.218	A393	9.15	8.54	7.19	6.21	*

Notes:

Minimum reinforcement mesh sizes shown provide both 0.1% of the gross cross-sectional area and 0.2% of the cross sectional area above the ribs of the concrete at the support.

Construction stage spans are noted under the 4.0kN/m² loads and shaded.

* In these cases there is no improvement in span capacity in using propped construction over non propped construction. Propped values for the 1.2 gauge Multideck 146 should be obtained from the Multideck software.