



# Multideck 50-V2 Lightweight Concrete Load Tables



## Unpropped - Load/Span Table (Steel - 350N/mm<sup>2</sup>)

Span (m) (see diagram page 41)

Span Type (Support Condition)	Slab Depth (mm)	Min Mesh Size	Gauge = 0.9mm					
			Total Applied Load (kN/m <sup>2</sup> ) SLS					
			4.0	6.0	8.0	10.0	12.0	14.0
	100 LWC	A98	3.22	3.22	2.99	2.77	2.61	2.50
	110 LWC	A98	3.12	3.12	3.12	3.01	2.84	2.75
	120 LWC	A142	3.03	3.03	3.03	3.03	3.03	3.00
	130 LWC	A142	2.95	2.95	2.95	2.95	2.95	2.95
	140 LWC	A142	2.88	2.88	2.88	2.88	2.88	2.88
	150 LWC	A142	2.82	2.82	2.82	2.82	2.82	2.82
	160 LWC	A193	2.76	2.76	2.76	2.76	2.76	2.76
	175 LWC	A193	2.68	2.68	2.68	2.68	2.68	2.68
	200 LWC	A193	2.57	2.57	2.57	2.57	2.57	2.57
	250 LWC	A252	2.36	2.36	2.36	2.36	2.36	2.36
	100 LWC	A98	3.49	3.29	3.00	3.00	3.00	3.00
	110 LWC	A98	3.41	3.41	3.30	3.30	3.30	3.30
	120 LWC	A142	3.33	3.33	3.33	3.33	3.33	3.33
	130 LWC	A142	3.25	3.25	3.25	3.25	3.25	3.25
	140 LWC	A142	3.18	3.18	3.18	3.18	3.18	3.18
	150 LWC	A142	3.12	3.12	3.12	3.12	3.12	3.12
	160 LWC	A193	3.06	3.06	3.06	3.06	3.06	3.06
	175 LWC	A193	2.96	2.96	2.96	2.96	2.96	2.96
	200 LWC	A193	2.81	2.81	2.81	2.81	2.81	2.81
	250 LWC	A252	2.57	2.57	2.57	2.57	2.57	2.57

## Propped - Load/Span Table (Steel - 350N/mm<sup>2</sup>)

Span (m) (see diagram page 41)

Span Type (Support Condition)	Slab Depth (mm)	Min Mesh Size	Gauge = 0.9mm					
			Total Applied Load (kN/m <sup>2</sup> ) SLS					
			4.0	6.0	8.0	10.0	12.0	14.0
	100 LWC	A98	3.72	★	★	★	★	★
	110 LWC	A98	4.00	3.57	★	★	★	★
	120 LWC	A142	4.28	3.86	3.60	3.60	3.60	3.60
	130 LWC	A142	4.56	4.15	3.90	3.90	3.90	3.76 3.90
	140 LWC	A142	4.82	4.41	4.20	4.20	4.19	3.91 4.09
	150 LWC	A142	5.09	4.66	4.50	4.50	4.34 4.50	4.06 4.26
	160 LWC	A193	5.35	4.91	4.80	4.80	4.48 4.72	4.19 4.42
	175 LWC	A193	5.73	5.27	5.25	5.06 5.25	4.68 4.96	4.38 4.65
	200 LWC	A193	5.57	5.57	5.57	5.38 5.57	4.99 5.32	4.68 4.99
	250 LWC	A252	5.10	5.10	5.10	5.10	5.10	5.10
	160 LWC	A193	★	★	★	★	★	★
	175 LWC	A193	★	★	★	★	★	★
	200 LWC	A193	6.33	6.00	5.87 6.00	★ 5.71	★	★
	250 LWC	A252	7.50	7.10 7.50	6.43 6.85	5.92 6.34	5.52 5.92	5.19 5.58

### Notes:

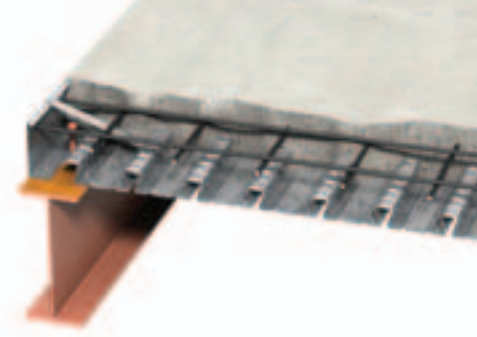
Total applied load referred to in the above table is a working load based on factored combinations of live loads, finishes, ceilings, services and partitions, divided by a load factor of 1.60 (excluding slab self weight).

Figures in red are maximum permissible spans in situations where there is one stud per trough.

Permanent Support ▲ Temporary Support ↑

# Multideck 50-V2

## Lightweight Concrete Load Tables



### Unpropped - Load/Span Table (Steel - 350N/mm<sup>2</sup>)

Span (m) (see diagram page 41)

Span Type (Support Condition)	Slab Depth (mm)	Min Mesh Size	Gauge = 1.0mm						Gauge = 1.2mm					
			Total Applied Load (kN/m <sup>2</sup> ) SLS						Total Applied Load (kN/m <sup>2</sup> ) SLS					
			4.0	6.0	8.0	10.0	12.0	14.0	4.0	6.0	8.0	10.0	12.0	14.0
	100 LWC A98	A98	3.31	3.31	3.03	2.81	2.64	2.51	3.57	3.44	3.12	2.90	2.73	2.59
	110 LWC A98	A98	3.21	3.21	3.21	3.05	2.87	2.75	3.47	3.47	3.38	3.14	2.95	2.80
	120 LWC A142	A142	3.12	3.12	3.12	3.12	3.10	3.00	3.37	3.37	3.37	3.37	3.19	3.03
	130 LWC A142	A142	3.04	3.04	3.04	3.04	3.04	3.04	3.29	3.29	3.29	3.29	3.29	3.25
	140 LWC A142	A142	2.97	2.97	2.97	2.97	2.97	2.97	3.21	3.21	3.21	3.21	3.21	3.21
	150 LWC A142	A142	2.90	2.90	2.90	2.90	2.90	2.90	3.14	3.14	3.14	3.14	3.14	3.14
	160 LWC A193	A193	2.84	2.84	2.84	2.84	2.84	2.84	3.08	3.08	3.08	3.08	3.08	3.08
	175 LWC A193	A193	2.76	2.76	2.76	2.76	2.76	2.76	2.99	2.99	2.99	2.99	2.99	2.99
	200 LWC A193	A193	2.65	2.65	2.65	2.65	2.65	2.65	2.87	2.87	2.87	2.87	2.87	2.87
	250 LWC A252	A252	2.46	2.46	2.46	2.46	2.46	2.46	2.67	2.67	2.67	2.67	2.67	2.67
	100 LWC A98	A98	3.74	3.33	3.03	3.00	3.00	3.00	3.93	3.44	3.12	3.00	3.00	3.00
	110 LWC A98	A98	3.65	3.62	3.30	3.30	3.30	3.30	4.00	3.72	3.38	3.30	3.30	3.30
	120 LWC A142	A142	3.57	3.57	3.57	3.57	3.57	3.57	3.91	3.91	3.65	3.60	3.60	3.60
	130 LWC A142	A142	3.49	3.49	3.49	3.49	3.49	3.49	3.82	3.82	3.82	3.82	3.82	3.82
	140 LWC A142	A142	3.41	3.41	3.41	3.41	3.41	3.41	3.74	3.74	3.74	3.74	3.74	3.74
	150 LWC A142	A142	3.35	3.35	3.35	3.35	3.35	3.35	3.67	3.67	3.67	3.67	3.67	3.67
	160 LWC A193	A193	3.28	3.28	3.28	3.28	3.28	3.28	3.59	3.59	3.59	3.59	3.59	3.59
	175 LWC A193	A193	3.19	3.19	3.19	3.19	3.19	3.19	3.49	3.49	3.49	3.49	3.49	3.49
	200 LWC A193	A193	3.05	3.05	3.05	3.05	3.05	3.05	3.35	3.35	3.35	3.35	3.35	3.35
	250 LWC A252	A252	2.79	2.79	2.79	2.79	2.79	2.79	3.10	3.10	3.10	3.10	3.10	3.10

Multideck 50-V2

### Propped - Load/Span Table (Steel - 350N/mm<sup>2</sup>)

Span (m) (see diagram page 41)

Span Type (Support Condition)	Slab Depth (mm)	Min Mesh Size	Gauge = 1.0mm						Gauge = 1.2mm					
			Total Applied Load (kN/m <sup>2</sup> ) SLS						Total Applied Load (kN/m <sup>2</sup> ) SLS					
			4.0	6.0	8.0	10.0	12.0	14.0	4.0	6.0	8.0	10.0	12.0	14.0
	100 LWC A98	A98	3.76	★	★	★	★	★	★	★	★	★	★	★
	110 LWC A98	A98	4.05	★	★	★	★	★	4.15	★	★	★	★	★
	120 LWC A142	A142	4.33	3.91	3.60	3.60	3.60	3.60	4.44	4.02	★	★	★	★
	130 LWC A142	A142	4.61	4.20	3.90	3.90	3.90	3.90	4.73	4.31	3.92	3.90	3.90	3.90
	140 LWC A142	A142	4.89	4.47	4.20	4.20	4.20	4.12	5.00	4.58	4.20	4.20	4.20	4.20
	150 LWC A142	A142	5.15	4.72	4.50	4.50	4.50	4.27	5.28	4.84	4.50	4.50	4.50	4.50
	160 LWC A193	A193	5.42	4.97	4.80	4.80	4.72	4.41	5.55	5.10	4.80	4.80	4.80	4.80
	175 LWC A193	A193	5.80	5.34	5.25	5.25	4.93	4.61	5.94	5.47	5.25	5.25	5.25	5.04
	200 LWC A193	A193	6.06	6.00	6.00	5.66	5.25	4.92	6.57	6.80	6.00	6.00	5.74	5.38
	250 LWC A252	A252	5.54	5.54	5.54	5.54	5.54	5.23	6.15	6.15	6.15	6.15	6.15	5.96
	160 LWC A193	A193	★	★	★	★	★	★	★	★	★	★	★	★
	175 LWC A193	A193	★	★	★	★	★	★	★	★	★	★	★	★
	200 LWC A193	A193	6.41	★	★	★	★	★	★	★	★	★	★	★
	250 LWC A252	A252	7.56	7.46	6.77	6.23	5.81	★	7.74	7.50	7.38	6.81	6.34	★
				7.50	7.19	6.65	6.22	5.86			7.50	7.22	6.75	6.36