

Multideck 80-V2

Fire Resistance Load Tables

Dramix[®] Reinforced Concrete (20kg/m³ RC-80/60-BN)

1 Hour Fire Rating - Lightweight Concrete

Slab Depth (mm)	Span (m)						
	Gauge 1.0mm						
	Total Applied Load (kN/m ²)						
	2.0	4.0	5.0	6.7	8.0	10.0	12.0
140	5.20	4.23	3.91	3.52	3.29	3.01	2.79
150	5.36	4.39	4.07	3.66	3.43	3.14	2.91
160	5.51	4.55	4.23	3.81	3.57	3.27	3.05
170	5.65	4.69	4.37	3.95	3.70	3.40	3.16
180	5.78	4.84	4.51	4.09	3.83	3.52	3.28
190	5.91	4.97	4.64	4.21	3.96	3.64	3.40
200	6.04	5.10	4.77	4.34	4.09	3.77	3.51
210	6.16	5.23	4.91	4.47	4.21	3.88	3.63
220	6.27	5.35	5.03	4.59	4.32	3.99	3.73
230	2.88	5.48	5.16	4.72	4.45	4.12	3.84
240	6.52	5.61	5.28	4.84	4.57	4.23	3.96
250	6.64	5.74	5.41	4.96	4.69	4.34	4.07

1.5 Hour Fire Rating - Lightweight Concrete

Slab Depth (mm)	Span (m)						
	Gauge 1.0mm						
	Total Applied Load (kN/m ²)						
	2.0	4.0	5.0	6.7	8.0	10.0	12.0
150	4.20	3.45	3.20	2.89	2.70	2.48	2.30
160	4.35	3.60	3.35	3.02	2.84	2.60	2.42
170	4.51	3.75	3.49	3.16	2.96	2.73	2.54
180	4.65	3.89	3.63	3.29	3.09	2.84	2.65
190	4.79	4.03	3.77	3.42	3.22	2.96	2.77
200	4.92	4.16	3.91	3.55	3.34	3.08	2.88
210	5.07	4.31	4.04	3.69	3.47	3.20	2.99
220	5.20	4.44	4.16	3.80	3.59	3.31	3.10
230	5.34	4.58	4.30	3.94	3.72	3.44	3.22
240	5.47	4.71	4.44	4.06	3.84	3.55	3.33
250	5.60	4.84	4.56	4.19	3.96	3.67	3.44

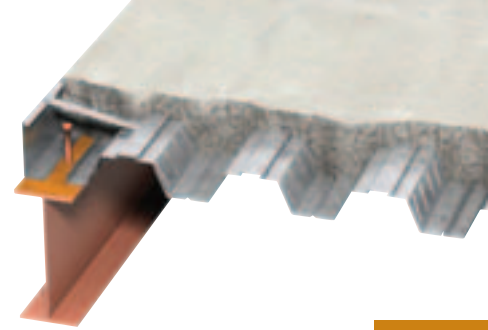
Notes:

These tables are not applicable to slabs where the deck is supplied in single span lengths (use Multideck Design software to determine suitable bottom bar requirements)

Multideck 80-V2

Fire Resistance Load Tables

Dramix® Reinforced Concrete (20kg/m³ RC-80/60-BN)



Multideck 80-V2

1 Hour Fire Rating - Lightweight Concrete

Slab Depth (mm)	Span (m)													
	Gauge 1.1mm							Gauge 1.2mm						
	Total Applied Load (kN/m ²)							Total Applied Load (kN/m ²)						
	2.0	4.0	5.0	6.7	8.0	10.0	12.0	2.0	4.0	5.0	6.7	8.0	10.0	12.0
140	5.39	4.39	4.06	3.65	3.41	3.12	2.90	5.57	4.53	4.20	3.77	3.52	3.22	2.98
150	5.55	4.55	4.22	3.80	3.55	3.25	3.02	5.73	4.70	4.35	3.92	3.66	3.36	3.12
160	5.70	4.70	4.37	3.95	3.69	3.38	3.15	5.88	4.86	4.52	4.07	3.81	3.50	3.25
170	5.84	4.85	4.52	4.09	3.83	3.52	3.27	6.02	5.01	4.66	4.21	3.95	3.63	3.38
180	5.98	5.00	4.66	4.23	3.96	3.65	3.40	6.16	5.16	4.81	4.36	4.09	3.76	3.50
190	6.11	5.13	4.80	4.36	4.09	3.77	3.52	6.29	5.29	4.95	4.49	4.22	3.88	3.62
200	6.23	5.27	4.93	4.48	4.21	3.88	3.63	6.41	5.42	5.08	4.62	4.34	4.00	3.73
210	6.35	5.40	5.06	4.61	4.34	4.01	3.74	2.88	5.55	5.20	4.74	4.47	4.12	3.84
220	6.48	5.53	5.20	4.74	4.47	4.13	3.85	6.66	5.69	5.34	4.88	4.59	4.24	3.96
230	6.59	5.65	5.31	4.86	4.58	4.23	3.96	6.77	5.80	5.46	4.99	4.71	4.35	4.07
240	6.70	5.77	5.43	4.98	4.70	4.34	4.07	6.88	5.92	5.58	5.11	4.82	4.46	4.18
250	6.83	5.90	5.56	5.10	4.82	4.47	4.18	7.01	6.05	5.71	5.23	4.95	4.59	4.30

1.5 Hour Fire Rating - Lightweight Concrete

Slab Depth (mm)	Span (m)													
	Gauge 1.1mm							Gauge 1.2mm						
	Total Applied Load (kN/m ²)							Total Applied Load (kN/m ²)						
	2.0	4.0	5.0	6.7	8.0	10.0	12.0	2.0	4.0	5.0	6.7	8.0	10.0	12.0
150	4.33	3.55	3.30	2.98	2.78	2.55	2.38	4.46	3.66	3.40	3.06	2.87	2.63	2.45
160	4.49	3.71	3.45	3.12	2.92	2.69	2.50	4.61	3.81	3.55	3.20	3.00	2.75	2.56
170	4.63	3.86	3.59	3.25	3.05	2.80	2.61	4.76	3.96	3.69	3.34	3.13	2.88	2.68
180	4.77	4.00	3.73	3.38	3.17	2.92	2.73	4.91	4.11	3.84	3.48	3.27	3.00	2.80
190	4.91	4.13	3.87	3.51	3.30	3.04	2.84	5.04	4.24	3.97	3.60	3.39	3.13	2.91
200	5.05	4.27	4.00	3.64	3.42	3.16	2.95	5.17	4.38	4.10	3.73	3.51	3.23	3.02
210	5.19	4.41	4.14	3.77	3.55	3.28	3.06	5.30	4.52	4.23	3.86	3.63	3.35	3.13
220	5.32	4.55	4.27	3.90	3.68	3.40	3.18	5.44	4.64	4.36	3.98	3.76	3.47	3.24
230	5.45	4.68	4.41	4.03	3.80	3.52	3.29	5.56	4.78	4.49	4.11	3.88	3.59	3.36
240	5.58	4.80	4.52	4.15	3.91	3.63	3.40	5.70	4.91	4.63	4.23	4.00	3.70	3.47
250	5.71	4.94	4.66	4.27	4.04	3.74	3.51	5.81	5.03	4.74	4.35	4.12	3.81	3.58

Notes:

These tables are not applicable to slabs where the deck is supplied in single span lengths (use Multideck Design software to determine suitable bottom bar requirements)