

Hollowcore Load Span Tables

150 150mm x 1197mm 2.92kN/m - 11 core	Perm. Load (kN/m ²)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	Live Load (kN/m ²)	1.00	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
Reinforcement Type Class 1 Strand		Clear Span According To BS 8110																			
Without Structural Screed	Lower Reinforcement																				
	8 x 9.3φ	7.88	7.46	7.24	6.93	6.64	6.37	6.16	5.95	5.77	5.60	5.45	5.30	5.17	5.05	4.93	4.82	4.72	4.63	4.54	4.45
	10 x 9.3φ	5.26	7.83	7.67	7.44	7.12	6.85	6.61	6.39	6.19	6.01	5.84	5.67	5.54	5.41	5.28	5.17	5.06	4.95	4.86	4.77
With 75mm dp. Structural Screed	Lower Reinforcement																				
	8 x 9.3φ	8.32	8.09	7.85	7.64	7.46	7.27	7.10	6.94	6.80	6.66	6.52	6.40	6.29	6.18	6.07	5.96	5.87	5.78	5.69	5.61
	10 x 9.3φ	8.96	8.70	8.44	8.21	8.02	7.81	7.62	7.46	7.30	7.15	7.01	6.88	6.75	6.63	6.51	6.40	6.30	6.20	6.12	6.02
	12 x 9.3φ	9.34	9.22	8.94	8.72	8.50	8.28	8.08	7.90	7.73	7.58	7.43	7.28	7.15	7.02	6.90	6.78	6.68	6.58	6.48	6.38

Self weight of hollowcore slab and jointfilling = 2.54 kN/m². Acoustic insulation R: 49.9 dB. Thermal resistance R: 0.149m²/K/W.

200 200mm x 1197mm 3.57kN/m ² - 6 core	Perm. Load (kN/m ²)	1.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	Live Load (kN/m ²)	1.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00								
Reinforcement Type Class 1 Strand		Clear Span According To BS 8110																		
Without Structural Screed	Lower Reinforcement																			
	10 x 9.3φ	10.05	9.65	9.01	8.63	7.83	7.40	7.01	6.70	6.41	6.17	5.94								
	10 x 9.3φ, 2 x 12.5φ	10.95	10.57	9.95	9.21	8.61	8.12	7.71	7.35	7.03	6.76	6.51								
With 75mm dp. Structural Screed	Lower Reinforcement																			
	10 x 9.3φ	10.24	9.94	9.42	8.97	8.56	8.22	7.92	7.64	7.39	7.16	6.95								
	10 x 9.3φ, 2 x 12.5φ	11.14	11.00	10.40	9.88	9.43	9.05	8.70	8.40	8.11	7.86	7.63								
	10 x 9.3φ, 4 x 12.5φ	12.24	11.92	11.20	10.62	10.15	9.72	9.35	9.00	8.71	8.43	8.18								

Self weight of hollowcore slab and jointfilling = 3.14 kN/m². Acoustic insulation R: 52.7 dB. Thermal resistance R: 0.191m²/K/W.

200 200mm x 1197mm 3.59kN/m ² - 11 core	Perm. Load (kN/m ²)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	Live Load (kN/m ²)	1.00	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
Reinforcement Type Class 1 Strand		Clear Span According To BS 8110																			
Without Structural Screed	Lower Reinforcement																				
	8 x 9.3φ	9.30	9.03	8.63	8.25	7.96	7.68	7.43	7.21	6.99	6.80	6.63	6.46	6.30	6.17	6.03	5.91	5.79	5.67	5.57	5.47
	10 x 9.3φ	9.95	9.64	9.27	8.88	8.54	8.25	7.97	7.73	7.50	7.29	7.10	6.92	6.76	6.60	6.46	6.32	6.20	6.08	5.96	5.84
With 75mm dp. Structural Screed	Lower Reinforcement																				
	8 x 9.3φ	9.47	9.19	8.95	8.71	8.49	8.30	8.11	7.96	7.79	7.63	7.49	7.35	7.22	7.10	6.98	6.86	6.75	6.65	6.56	6.47
	10 x 9.3φ	10.12	9.87	9.80	9.35	9.14	8.94	8.73	8.53	8.35	8.18	8.04	7.89	7.74	7.61	7.48	7.36	7.25	7.14	7.03	6.93
	12 x 9.3φ	10.83	10.50	10.22	9.94	9.70	9.46	9.25	9.05	8.86	8.69	8.52	8.35	8.21	8.07	7.93	7.81	7.68	7.56	7.44	7.34

Self weight of hollowcore slab and jointfilling = 3.17 kN/m². Acoustic insulation R: 52.6 dB. Thermal resistance R: 0.166m²/K/W.

Moylough Concrete Ltd. is not responsible for direct or indirect damage as a result of imperfections in this data.

- Density of concrete: 23.6 kN/m³
- Exposure class: 1 (Dry environment)
- Fire resistance: 1 Hour (Higher available)
- Deflection criteria: Long term deflection under self weight of slab + total permanent load + 25% of live load < L/350