

# LOAD TABLE

EN 1168  
EN 1992-1-1:2004

## PRESTRESSED HOLLOW CORE SLAB (for Floors)

Concrete	Concrete Strength cylinder	$f_{ck}$	35.00 N/mm <sup>2</sup>
Concrete	Concrete Strength cube	$f_{ck,cube}$	45.00 N/mm <sup>2</sup>
Prestress Steel	Ultimate tensile strength	$f_{pk}$	1860 N/mm <sup>2</sup>
Tensile	0.1% proof-stress	$f_{p0.1k}$	1700 N/mm <sup>2</sup>



Panel Type 300mm L - 7wire [7x3]B/4wire[3x3]T

### Dimensions in mm

Depth of Slab	300.00 mm
Width of Slab	1137.00 mm
Self weight	5.00 kN/m

### Sectional Properties

Cross-sectional Area	2083.51 cm <sup>2</sup>
Second moment of Area	205866.97 cm <sup>4</sup>
CG position from bottom fibre	146.34 mm

### Bottom Layer B1

No of Strands	7
Dia of Strands	3 mm
No of Wires	7
Initial Stress cover	1395 N/mm <sup>2</sup> 35 mm

### Top Layer T1

No of Strands	3
Dia of Strands	3 mm
No of Wires	4
Initial Stress cover	1395 N/mm <sup>2</sup> 50

### Fire Rating (EN 1991-1-2, Table 5.8)

Exposure Class	RE 90 XC 1
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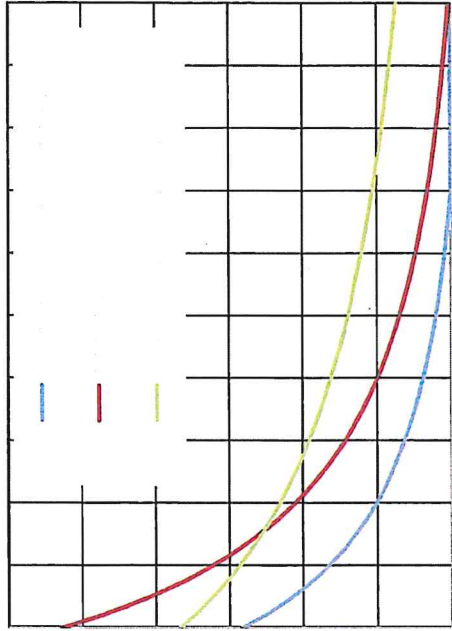
SPAN m	A - kN/m <sup>2</sup>	B - kN/m <sup>2</sup>	C - kN/m <sup>2</sup>	mode 1	mode 2
4.00	28.14	40.58	52.73	BM0	SF
4.20	25.11	38.51	47.42	BM0	SF
4.40	22.49	36.63	42.81	BM0	SF
4.60	20.20	34.91	38.80	BM0	SF
4.80	18.20	33.33	35.27	BM0	SF
5.00	16.42	31.88	32.16	BM0	SF
5.20	14.85	30.54	29.40	BM0	UBM
5.40	13.45	29.30	26.95	BM0	UBM
5.60	12.20	28.15	24.75	BM0	UBM
5.80	11.08	27.08	22.77	BM0	UBM
6.00	10.06	26.08	20.99	BM0	UBM
6.20	9.14	25.14	19.38	BM0	UBM
6.40	8.31	24.26	17.92	BM0	UBM
6.60	7.55	23.44	16.58	BM0	UBM
6.80	6.86	22.66	15.37	BM0	UBM
7.00	6.23	21.93	14.25	BM0	UBM
7.20	5.64	21.24	13.23	BM0	UBM
7.40	5.11	20.59	12.29	BM0	UBM
7.60	4.61	19.97	11.43	BM0	UBM
7.80	4.16	19.38	10.62	BM0	UBM
8.00	3.74	18.82	9.88	BM0	UBM
8.20	3.34	18.29	9.19	BM0	UBM
8.40	2.98	17.79	8.56	BM0	UBM
8.60	2.64	17.31	7.96	BM0	UBM
8.80	2.32	16.85	7.40	BM0	UBM
9.00	2.03	16.41	6.89	BM0	UBM
9.20	1.75	15.99	6.40	BM0	UBM
9.40	1.49	15.58	5.95	BM0	UBM
9.60	1.25	15.20	5.52	BM0	UBM
9.80	1.02	14.83	5.12	BM0	UBM
10.00	0.81	14.47	4.74	BM0	UBM
10.20	0.61	14.13	4.39	BM0	UBM
10.40	0.42	13.80	4.05	BM0	UBM
10.60	0.24	13.49	3.74	BM0	UBM
10.80	0.07	13.18	3.44	BM0	UBM
11.00	0.00	12.89	3.16	BM0	UBM
11.20	0.00	12.61	2.89	BM0	UBM
11.40	0.00	12.34	2.63	BM0	UBM
11.60	0.00	12.07	2.39	BM0	UBM
11.80	0.00	11.82	2.17	BM0	UBM
12.00	0.00	11.57	1.95	BM0	UBM
12.20	0.00	11.33	1.74	BM0	UBM
12.40	0.00	11.10	1.55	BM0	UBM
12.60	0.00	10.88	1.36	BM0	UBM
12.80	0.00	10.67	1.18	BM0	UBM
13.00	0.00	10.46	1.01	BM0	UBM
13.20	0.00	10.25	0.85	BM0	UBM
13.40	0.00	10.06	0.69	BM0	UBM
13.60	0.00	9.87	0.54	BM0	UBM
13.80	0.00	9.68	0.40	BM0	UBM
14.00	0.00	9.50	0.27	BM0	UBM

A - superimposed load for zero bottom stress "BM0"

B - superimposed load for ultimate shear "SF" EN 1991

C - superimposed load for ultimate moment "UBM" EN1991

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**Project Details:**

**Clients Details:**

<b>PS-type</b>	<b>300 L.7.4</b>	<b>Inspected by:</b>	
<b>Ultimate Moment</b>	<b>129.9</b>	<b>Received by:</b>	
<b>Capacity - kNm</b>	<b>93.3</b>	<b>Production Date:</b>	
<b>Ultimate Shear</b>		<b>Delivery Date:</b>	
<b>Capacity - kN</b>			

**Slab Schedule:**

101-1
101-2
101-3
101-4
101-5
101-6
101-7
101-8
101-9
101-10
101-11
101-12
101-13
101-14
101-15
101-16
101-17
101-18
101-19
101-20
101-21
101-22
101-23
101-24
101-25
101-26

Mode 1 serviceability: zero stress on Bottom fibre(BM0)

Mode 2 Ultimate - Shear (SF) or Ultimate Bending (UBM)