

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



Panel Type: 300mm HL - B wire [7x4.1]B/A wire [3x3.1]

Dimensions in mm	
Depth of Slab	300.00 mm
Width of Slab	1137.00 mm
Self weight	5.64 kN/m

Sectional Properties	
Cross-sectional Area	2351.95 cm ²
Second moment of Area	223525.60 cm ⁴
CG position from bottom fibre	146.23 mm

Bottom Layer B1	Strands	
No of Strands		7
Dia of Strands		4.1 mm
No of Wires		8
Initial Stress		1395 N/mm ²
cover		35 mm

Top Layer T1	Strands	
No of Strands		3
Dia of Strands		3 mm
No of Wires		4
Initial Stress		1395 N/mm ²
cover		50 mm

Fire Rating (EN 1991-1-2, Table 5.8)	RE 90
Exposure Class	XC 1

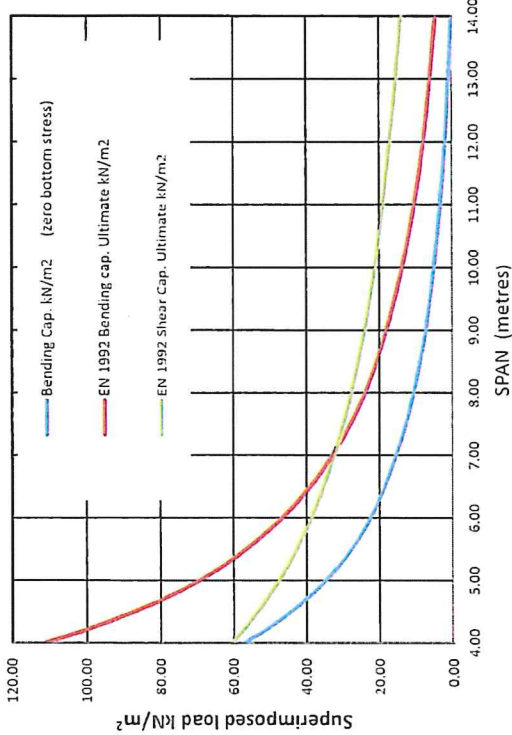
SPAN m	A - kN/m ²	B - kN/m ²	C - kN/m ²	mode 1	mode 2
4.00	57.27	52.31	111.59	SF	SF
4.20	51.49	49.66	100.75	SF	SF
4.40	46.47	47.25	91.36	BMO	SF
4.60	42.10	45.05	83.16	BMO	SF
4.80	38.26	43.04	75.97	BMO	SF
5.00	34.87	41.19	69.63	BMO	SF
5.20	31.86	39.47	64.00	BMO	SF
5.40	29.18	37.89	58.99	BMO	SF
5.60	26.79	36.42	54.50	BMO	SF
5.80	24.64	35.05	50.47	BMO	SF
6.00	22.70	33.77	46.84	BMO	SF
6.20	20.94	32.57	43.55	BMO	SF
6.40	19.35	31.45	40.56	BMO	SF
6.60	17.90	30.40	37.85	BMO	SF
6.80	16.57	29.41	35.36	BMO	SF
7.00	15.36	28.47	33.09	BMO	SF
7.20	14.24	27.59	31.01	BMO	SF
7.40	13.22	26.75	29.09	BMO	SF
7.60	12.28	25.96	27.32	BMO	SF
7.80	11.40	25.21	25.69	BMO	SF
8.00	10.59	24.50	24.17	BMO	UBM
8.20	9.84	23.82	22.77	BMO	UBM
8.40	9.15	23.18	21.46	BMO	UBM
8.60	8.50	22.56	20.25	BMO	UBM
8.80	7.89	21.97	19.12	BMO	UBM
9.00	7.33	21.41	18.06	BMO	UBM
9.20	6.80	20.87	17.07	BMO	UBM
9.40	6.31	20.36	16.14	BMO	UBM
9.60	5.84	19.86	15.27	BMO	UBM
9.80	5.40	19.39	14.45	BMO	UBM
10.00	4.99	18.94	13.68	BMO	UBM
10.20	4.61	18.50	12.96	BMO	UBM
10.40	4.24	18.08	12.28	BMO	UBM
10.60	3.90	17.68	11.63	BMO	UBM
10.80	3.57	17.29	11.02	BMO	UBM
11.00	3.27	16.92	10.45	BMO	UBM
11.20	2.97	16.55	9.90	BMO	UBM
11.40	2.70	16.21	9.38	BMO	UBM
11.60	2.44	15.87	8.89	BMO	UBM
11.80	2.19	15.54	8.43	BMO	UBM
12.00	1.95	15.23	7.99	BMO	UBM
12.20	1.73	14.93	7.56	BMO	UBM
12.40	1.51	14.63	7.16	BMO	UBM
12.60	1.31	14.35	6.78	BMO	UBM
12.80	1.11	14.07	6.42	BMO	UBM
13.00	0.93	13.80	6.07	BMO	UBM
13.20	0.75	13.54	5.74	BMO	UBM
13.40	0.58	13.29	5.42	BMO	UBM
13.60	0.42	13.05	5.12	BMO	UBM
13.80	0.26	12.81	4.83	BMO	UBM
14.00	0.12	12.58	4.55	BMO	UBM

A - superimposed load for zero bottom stress "BMO"

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:

Slab Schedule:

101-1	Span
101-2	
101-3	
101-4	
101-5	
101-6	
101-7	
101-8	
101-9	
101-10	
101-11	
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101-19	
101-20	
101-21	
101-22	
101-23	
101-24	
101-25	
101-26	

Inspected by:

Received by:

Production Date:

Delivery Date:

PS-type

Ultimate Moment Capacity - kNm 265.0

Ultimate Shear Capacity - kN 148.6

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

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