

LOAD TABLE

EN 1168
EN 1992-1-1-2004

PRESTRESSED 177mm LINTOL

Concrete

Concrete Strength cylinder f_{ck} 25.00 N/mm²

Concrete Strength cube $f_{ck,cube}$ 30.00 N/mm²

Prestress Steel

Ultimate tensile strength f_{pk} 1860 N/mm²

Tensile 0.1% proof-stress $f_{p0.1k}$ 1700 N/mm²

Dimensions in mm

Depth of Beam 254.00 mm

Width of Beam 175.00 mm

Self weight 1.07 kN/m

Sectional Properties

Cross-sectional Area 444.50 cm²

Second moment of Area 23897.80 cm⁴

CG position from bottom fibre 127.00 mm

Bottom Layer B1 Strands

No of Strands 3

Dia of Strands 3 mm

No of Wires 4

Initial Stress 1395 N/mm²

cover 50 mm

Top Layer T1 Strands

No of Strands 3

Dia of Strands 3 mm

No of Wires 2

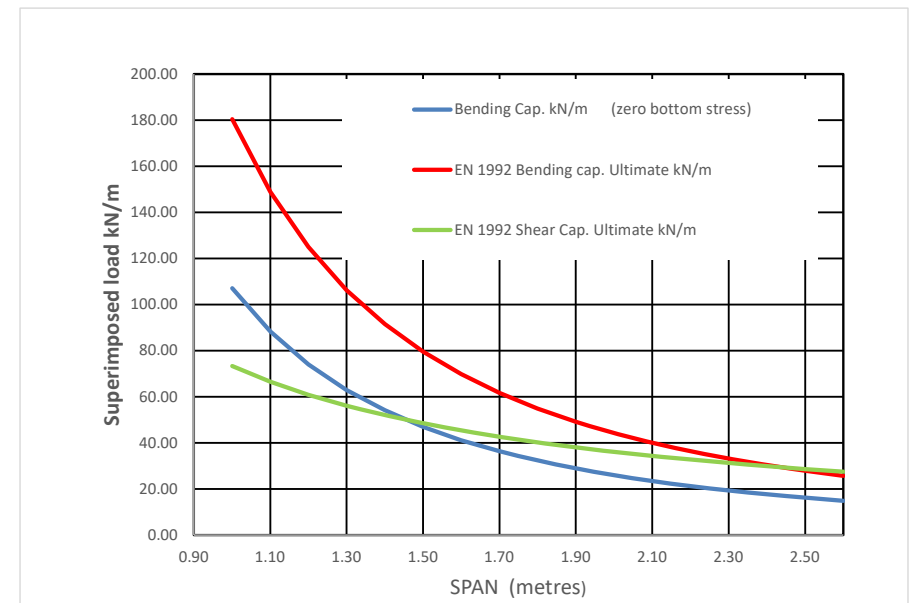
Initial Stress 1395 N/mm²


cover 50 mm

Fire Rating (EN 1991-1-2, Table 5.8) **RE 90**

Exposure Class **XC 1**

SPAN m	A - kN/m	B - kN/m	C - kN/m	mode 1	mode 2
1.00	107.13	49.60	180.40	SF	SF
1.10	88.35	45.05	148.91	SF	SF
1.20	74.07	41.25	124.95	SF	SF
1.30	62.96	38.03	106.31	SF	SF
1.40	54.14	35.28	91.52	SF	SF
1.50	47.02	32.89	79.59	SF	SF
1.60	41.20	30.80	69.82	SF	SF
1.70	36.37	28.96	61.73	SF	SF
1.80	32.33	27.32	54.94	SF	SF
1.90	28.91	25.85	49.20	SF	SF
2.00	25.98	24.53	44.30	SF	SF
2.10	23.47	23.34	40.08	SF	SF
2.20	21.29	22.26	36.43	BM0	SF
2.30	19.39	21.27	33.24	BM0	SF
2.40	17.72	20.36	30.44	BM0	SF
2.50	16.25	19.52	27.97	BM0	SF
2.60	14.94	18.75	25.78	BM0	SF
2.70	13.78	18.04	23.83	BM0	SF
2.80	12.73	17.37	22.08	BM0	SF
2.90	11.80	16.76	20.51	BM0	SF
3.00	10.96	16.18	19.10	BM0	SF



		Slab Schedule:	Span
		101 -1	
101 -2			
101 -3			
101 -4			
Project Details:		101 -5	
177mm Prestressed Lintol safe load table		101 -6	
		101 -7	
		101 -8	
		101 -9	
		101 -10	
Clients Details:		101 -11	
		101 -12	
		101 -13	
		101 -14	
		101 -15	
		101 -16	
PS-type	lintol 7" 0	101 -17	
Ultimate Moment Capacity - kNm	22.7	101 -18	
Ultimate Shear Capacity - kN	37.2	101 -19	
Inspected by:		101 -20	
Received by:		101 -21	
		101 -22	
		101 -23	
Production Date:		101 -24	
		101 -25	
Delivery Date:		101 -26	

A - superimposed load for zero bottom stress "BM0"

B - superimposed load for ultimate shear "SF" EN 1992

C - superimposed load for ultimate moment "UBM" EN1992

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

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

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