

LOAD TABLE

EN 1168
EN 1992-1-1:2004

PRESTRESSED 230mm LINTOL-2

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 $f_{0.1k}$ 1700 N/mm²

Dimensions in mm
Depth of Slab 254.00 mm
Width of Slab 230.00 mm
Self weight 1.40 kN/m

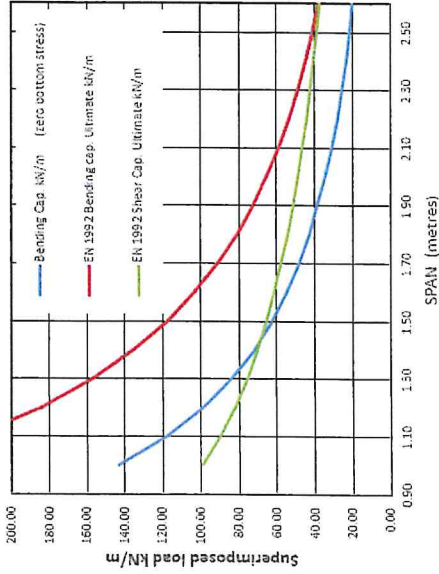
Sectional Properties
Gross-sectional Area 584.20 cm²
Second moment of Area 31408.54 cm⁴
CG position from bottom fibre 127.00 mm

Bottom Layer B1 Strands
No of Strands 3
Dia of Strands 3 mm
No of Wires 6
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)
Exposure Class RE 90
XC 1

SPAN m	A - kN/m	B - kN/m	C - kN/m	mode 1	mode 2
1.00	142.86	73.31	266.13	SF	SF
1.10	117.83	66.68	219.69	SF	SF
1.20	98.78	60.98	184.38	SF	SF
1.30	83.96	56.23	156.90	SF	SF
1.40	72.20	52.16	135.99	SF	SF
1.50	62.72	48.64	117.50	SF	SF
1.60	54.95	45.66	103.10	SF	SF
1.70	48.52	42.84	91.17	SF	SF
1.80	43.12	40.42	81.17	SF	SF
1.90	38.56	38.25	72.71	SF	SF
2.00	34.66	36.30	65.48	BM0	SF
2.10	31.31	34.54	59.26	BM0	SF
2.20	28.40	32.84	53.87	BM0	SF
2.30	25.87	31.48	49.17	BM0	SF
2.40	23.64	30.14	45.04	BM0	SF
2.50	21.68	28.90	41.40	BM0	SF
2.70	18.39	26.71	35.30	BM0	SF
2.80	17.00	25.73	32.72	BM0	SF
2.90	15.75	24.82	30.41	BM0	SF
3.00	14.63	23.97	28.32	BM0	SF



		Slab Schedule:		Span
				101-1
Project Details:				101-2
				101-3
Client's Details:				101-4
				101-5
P.S-type lintol 9'				101-6
				101-7
Ultimate Moment Capacity - kNm				101-8
				101-9
Ultimate Shear Capacity - kN				101-10
				101-11
Production Date:				101-12
				101-13
Delivery Date:				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

- 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

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Mode 1 serviceability: zero stress on Bottom fibre(BM0)
Mode 2 Ultimate - Shear (SF) or Ultimate Bending (UBM)

Inspected by:	0
Capacity - kNm	33.4
Capacity - kN	50.2
Received by:	