



Prestressed Lintol Load Tables

145 x 100 PRESTRESSED CONCRETE LINTOL

Reinforcement 2 No. 9.3mm Dia Strands to BS5896

LOAD CAPACITY TABLE

$f_{pu} = 1770 \text{ N/mm}^2$

$f_{cu} = 50 \text{ N/mm}^2$

$f_{ci} = 30 \text{ N/mm}^2$

LINTOL ON FLAT

Service Moment = 2.3 Knm

Ultimate Moment = 3.0 Knm

Shear (V_{co}) = 31.0Kn

LINTOL ON EDGE

Service Moment = 3.4 Knm

Ultimate Moment = 5.0 Knm

Shear (V_{co}) = 32.0 Kn

CLEAR SPAN M	EFFECTIVE SPAN M	LOAD CAPACITY KN/M	TOTAL CAPACITY KN	LOAD CAPACITY KN/M	TOTAL CAPACITY KN
0.6	0.8	28.75	17.25	42.5	25.5
0.8	1	18.4	14.72	27.2	21.76
1	1.2	12.78	12.78	18.89	18.89
1.2	1.4	9.39	11.268	13.88	16.656
1.4	1.6	6.76	9.464	10.63	14.882
1.6	1.8	5.68	9.099	8.4	13.44
1.8	2	4.6	8.28	6.8	12.24
2	2.2	3.8	7.6	5.62	11.24
2.2	2.4	3.19	7.018	4.72	10.384
2.4	2.6	2.72	6.528	4.02	9.648
2.6	2.8	2.35	6.11	3.47	9.022
2.8	3	2.04	5.712	3.02	8.456

210 x 100 PRESTRESSED CONCRETE LINTOL

Reinforcement 2 No. 9.3mm Dia Strands to BS5896

LOAD CAPACITY TABLE

$f_{pu} = 1770 \text{ N/mm}^2$

$f_{cu} = 50 \text{ N/mm}^2$

$f_{ci} = 30 \text{ N/mm}^2$

LINTOL ON FLAT

Service Moment = 2.8 Knm

Ultimate Moment = 4.7 Knm

Shear (V_{co}) = 41.0Kn

LINTOL ON EDGE

Service Moment = 5.8 Knm

Ultimate Moment = 11.2 Knm

Shear (V_{co}) = 42.0Kn

CLEAR SPAN M	EFFECTIVE SPAN M	LOAD CAPACITY KN/M	TOTAL CAPACITY KN	LOAD CAPACITY KN/M	TOTAL CAPACITY KN
0.6	0.8	35	21	72.5	43.5
0.8	1	22.4	17.92	46.4	37.12
1	1.2	15.56	15.56	32.22	32.22
1.2	1.4	11.43	13.716	23.67	28.404
1.4	1.6	8.75	12.25	18.13	25.382
1.6	1.8	6.91	11.056	14.32	22.912
1.8	2	5.6	10.08	11.6	20.86
2	2.2	4.63	9.26	9.59	19.18
2.2	2.4	3.89	8.558	8.06	17.732
2.4	2.6	3.31	7.944	6.86	16.464
2.6	2.8	2.81	7.306	5.92	15.392
2.8	3	2.49	6.972	5.16	14.448
3.2	3.4	1.94	6.208	4.01	12.832
3.8	4			2.9	11.02
4.4	4.6			2.19	9.636