

## DETAILS OF PROPERTIES AND LOAD CAPACITIES FOR PERMISSIBLE DEFLECTION AND STRESS

PLACEMENT : SIMPLY SUPPORTED					YIELD STRESS OF MATERIAL = 2450 kg/cm <sup>2</sup>												
Sr. No.	Thickness in mm	Moment of Inertia / m <sup>4</sup>	Section Modulus		Permissible load in Kg/sqm for span												
			Top Zt cm <sup>3</sup>	Bottom Zt cm <sup>3</sup>	1.0 mtr.	1.1 mtr.	1.2 mtr.	1.3 mtr.	1.4 mtr.	1.5 mtr.	1.6 mtr.	1.7 mtr.	2.0 mtr.	2.5 mtr.	3.0 mtr.	3.5 mtr.	4.0 mtr.
1	0.80	47.45	18.61	18.61	2233	1845	1550	1321	1139	992	872	772	558	357	248	182	139
2	0.90	53.14	20.84	20.84	2500	2066	1736	1479	1275	1111	976	865	625	400	277	204	156
3	1.00	58.77	23.05	23.05	2766	2285	1920	1636	1411	1229	1080	957	691	442	307	225	172
4	1.10	64.35	25.24	25.24	3028	2503	2103	1792	1545	1346	1183	1048	757	484	336	247	189
5	1.20	69.87	27.40	27.40	3288	2717	2283	1945	1677	1461	1284	1137	822	526	365	268	205
6	1.25	72.62	28.48	28.48	3417	2824	2373	2022	1743	1518	1335	1182	854	546	379	278	213

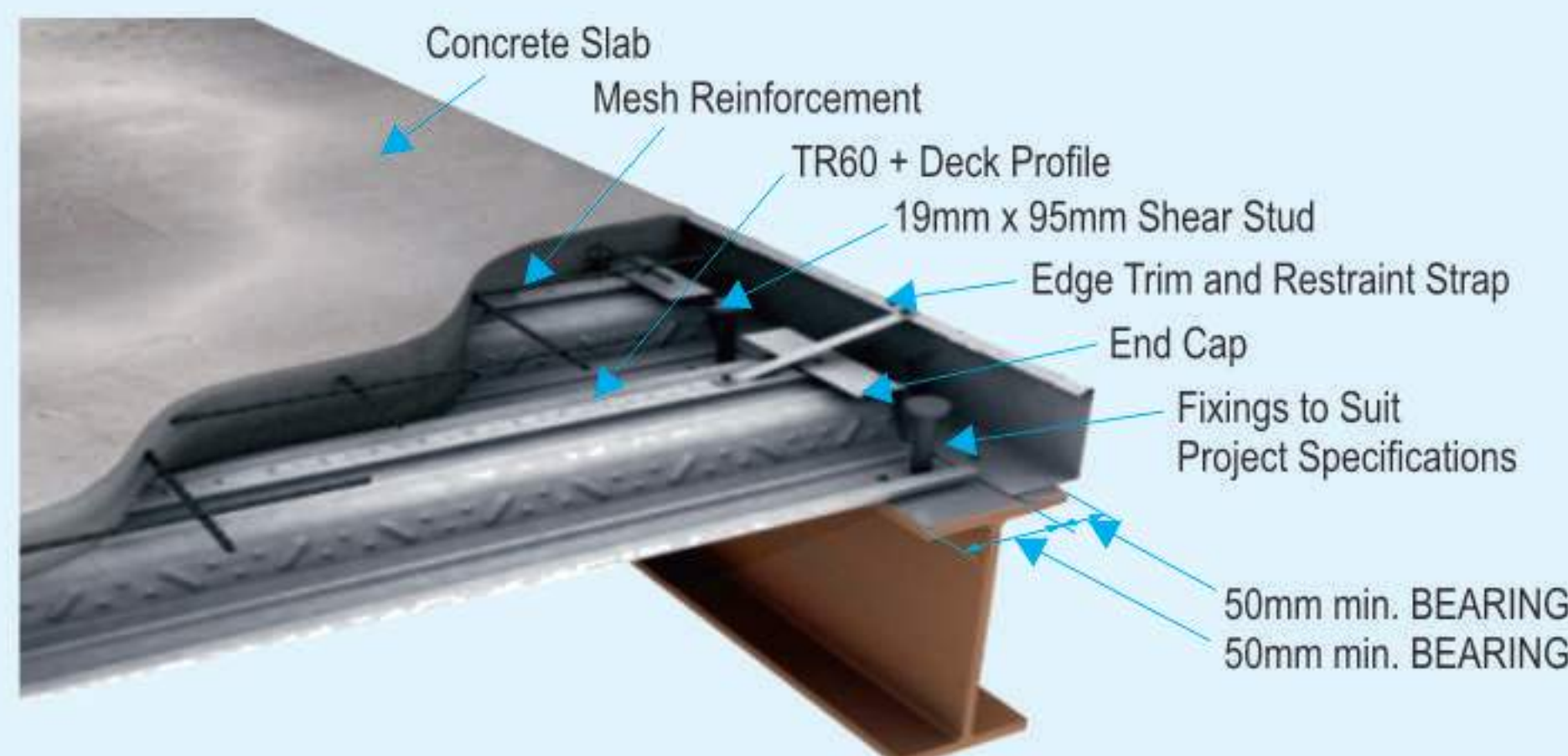
PLACEMENT : THREE SPANS CONTINUOUS					YIELD STRESS OF MATERIAL = 2450 kg/cm <sup>2</sup>												
Sr. No.	Thickness in mm	Moment of Inertia / m <sup>4</sup>	Section Modulus		Permissible load in Kg/sqm for span												
			Top Zt cm <sup>3</sup>	Bottom Zt cm <sup>3</sup>	1.0 mtr.	1.1 mtr.	1.2 mtr.	1.3 mtr.	1.4 mtr.	1.5 mtr.	1.6 mtr.	1.7 mtr.	2.0 mtr.	2.5 mtr.	3.0 mtr.	3.5 mtr.	4.0 mtr.
1	0.80	47.45	18.61	18.61	2791	2307	1938	1651	1424	1240	1090	965	697	446	310	227	174
2	0.90	53.14	20.84	20.84	3126	2583	2170	1849	1594	1389	1221	1081	781	500	347	255	195
3	1.00	58.77	23.05	23.05	3457	2857	2401	2045	1764	1536	1350	1196	864	553	384	282	216
4	1.10	64.35	25.24	25.24	3786	3128	2629	2240	1931	1682	1478	1310	946	605	420	309	236
5	1.20	69.87	27.40	27.40	4110	3396	2854	2431	2096	1826	1605	1422	1027	657	456	335	256
6	1.25	72.62	28.48	28.48	4272	3530	2966	2527	2179	1898	1668	1478	1068	683	474	348	267

PLACEMENT : SIMPLY SUPPORTED					YIELD STRESS OF MATERIAL = 3450 kg/cm <sup>2</sup>												
Sr. No.	Thickness in mm	Moment of Inertia / m <sup>4</sup>	Section Modulus		Permissible load in Kg/sqm for span												
			Top Zt cm <sup>3</sup>	Bottom Zt cm <sup>3</sup>	1.0 mtr.	1.1 mtr.	1.2 mtr.	1.3 mtr.	1.4 mtr.	1.5 mtr.	1.6 mtr.	1.7 mtr.	2.0 mtr.	2.5 mtr.	3.0 mtr.	3.5 mtr.	4.0 mtr.
1	0.80	47.45	18.61	18.61	3126	2583	2171	1849	1595	1389	1221	1081	781	500	347	255	195
2	0.90	53.14	20.84	20.84	3501	2893	2431	2071	1786	1556	1367	1211	875	560	389	285	218
3	1.00	58.77	23.05	23.05	3872	3200	2689	2291	1975	1721	1512	1339	968	619	430	316	242
4	1.10	64.35	25.24	25.24	4240	3504	2944	2509	2163	1884	1656	1467	1060	678	471	346	265
5	1.20	69.87	27.40	27.40	4603	3804	3196	2723	2348	2045	1798	1592	1150	736	511	375	287
6	1.25	72.62	28.48	28.48	4784	3954	3322	2831	2441	2126	1869	1655	1196	765	531	390	299

PLACEMENT : THREE SPANS CONTINUOUS					YIELD STRESS OF MATERIAL = 3450 kg/cm <sup>2</sup>												
Sr. No.	Thickness in mm	Moment of Inertia / m <sup>4</sup>	Section Modulus		Permissible load in Kg/sqm for span												
			Top Zt cm <sup>3</sup>	Bottom Zt cm <sup>3</sup>	1.0 mtr.	1.1 mtr.	1.2 mtr.	1.3 mtr.	1.4 mtr.	1.5 mtr.	1.6 mtr.	1.7 mtr.	2.0 mtr.	2.5 mtr.	3.0 mtr.	3.5 mtr.	4.0 mtr.
1	0.80	47.45	18.61	18.61	3908	3229	2713	2312	1993	1736	1526	1352	977	625	434	319	244
2	0.90	53.14	20.84	20.84	4376	3616	3039	2589	2232	1945	1709	1514	1094	700	486	357	273
3	1.00	58.77	23.05	23.05	4840	4000	3361	2864	2469	2151	1890	1674	1210	774	537	395	302
4	1.10	64.35	25.24	25.24	5300	4380	3680	3136	2704	2355	2070	1834	1325	848	588	432	331
5	1.20	69.87	27.40	27.40	5754	4755	3995	3404	2935	2557	2247	1991	1438	920	639	469	359
6	1.25	72.62	28.48	28.48	5980	4942	4153	3538	3051	2658	2336	2069	1495	956	664	488	373



Simply Supported



Multi Span Continuous