MAGON ACEROS

TABLE OF COMPOSITE FLOOR DECK

COMPOSITE FLOOR TABLES:

ONE SPAN OR END SPAN

CONCRETE: HA-250

STEEL: S250GD

TOTAL FACTORED LOADS (kg / m²)

PROFILE THICKNESS IN mm	TOTAL SLAB THICKNESS IN mm.	L (spans in metres)														max span without bracing (m)
		1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	
0.8	100	1.384	1010	751	564	426	320	156								2.61
	110	1583	1155	858	645	487	367	179								2.58
	120	1780	1299	965	726	548	412	201								2.52
	130	1979	1444	1073	807	609	341	224								2.47
	140	2176	1588	1180	887	670	374	246	145							2.42
	160	2572	1877	1395	1049	792	443	291	171							2.33
	180	2968	2166	1610	1210	737	511	336	198							2.26
	200	3364	2455	1825	1372	835	580	381	225							2.19

TOTAL FACTORED LOADS (kg / m²)

PROFILE THICKNESS IN mm	TOTAL SLAB THICKNESS IN mm.	L (spans in metres)														max span without bracing (m)
		1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	
1.0	100	1845	1368	1038	799	621	486	381	214	147						2.81
	110	2109	1565	1186	914	711	556	436	246	169						2.78
	120	2372	1760	1334	1028	799	625	490	276	190						2.71
	130	2636	1956	1483	1142	889	696	427	308	212						2.66
	140	2900	2151	1631	1256	977	765	469	338	233	146					2.61
	160	3427	2543	1928	1485	1155	904	555	400	275	173					2.51
	180	3955	2934	2225	1714	1333	866	641	462	318	201					2.43
	200	4482	3325	2522	1942	1511	982	727	524	361	228					2.36

TOTAL FACTORED LOADS (kg / m²)

PROFILE THICKNESS IN mm	TOTAL SLAB THICKNESS IN mm.	L (spans in metres)														max span without bracing (m)
		1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	
1.2	100	2307	1728	1326	1035	818	653	523	421	255	188					2.99
	110	2637	1976	1516	1183	936	746	599	482	293	216	152				2.95
	120	2966	2222	1705	1331	1052	839	673	435	329	242	170				2.88
	130	3297	2470	1895	1479	1170	933	749	485	367	270	190				2.83
	140	3626	2717	2084	1627	1286	1026	823	532	403	297	209				2.77
	160	4286	3211	2463	1923	1521	1213	820	630	476	351	247	161			2.67
	180	4945	3705	2842	2219	1755	1400	946	727	550	405	286	186			2.59
	200	5605	4199	3222	2515	1989	1587	1073	824	623	459	324	211			2.51

Struts. Placing 1 girder in the centre of the span.

NOTE:

The tables presented serve as a pre-dimensioning of a mixed slab project, providing a quick tool to define slab thickness and steel thickness to be chosen as a starting point in the development of the project.

The data shown in the tables is for guidance purposes only, with the designer being responsible for carrying out the structural calculations in accordance with the applicable regulations in each country. MAGON ACEROS will not be responsible for the inappropriate use of these tables.

COMPOSITE TABLES:

INTERMEDIATE SPAN

CONCRETE: HA-250

STEEL: S250GD

TOTAL FACTORED LOADS (kg / m²)

PROFILE THICKNESS IN mm	TOTAL SLAB THICKNESS IN mm.	L (spans in metres)														max span without bracing (m)
		1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	
0.8	100	1785	1318	995	762	588	457	354	190							2.90
	110	2040	1507	1137	871	673	523	405	218	144						2.86
	120	2295	1695	1279	980	757	587	456	245	161						2.80
	130	2551	1884	1422	1089	842	653	507	273	180						2.74
	140	2805	2072	1564	1198	926	718	427	300	197						2.69
	160	3316	2449	1849	1416	1094	849	505	355	234						2.59
	180	3826	2827	2133	1634	1263	803	584	410	270	156					2.51
	200	4336	3204	2418	1852	1431	911	662	465	306	177					2.44

TOTAL FACTORED LOADS (kg / m²)

PROFILE THICKNESS IN mm	TOTAL SLAB THICKNESS IN mm.	L (spans in metres)														max span without bracing (m)
		1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	
1.0	100	2353	1761	1349	1052	830	661	530	425	258	189					3.13
	110	2690	2013	1542	1203	950	756	606	487	296	217	152				3.09
	120	3026	2264	1735	1352	1068	851	681	547	332	244	171				3.02
	130	3363	2517	1928	1503	1187	946	758	608	370	272	191				2.96
	140	3699	2768	2121	1653	1305	1040	833	539	407	299	209				2.90
	160	4371	3271	2507	1954	1543	1229	985	637	481	353	248	160			2.79
	180	5044	3775	2892	2255	1781	1419	960	736	555	408	286	185			2.70
	200	5717	4279	3278	2556	2018	1608	1088	834	630	463	325	210			2.62

TOTAL FACTORED LOADS (kg / m²)

PROFILE THICKNESS IN mm	TOTAL SLAB THICKNESS IN mm.	L (spans in metres)														max span without bracing (m)
		1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	
1.2	100	2924	2205	1705	1343	1073	867	706	578	475	307	237	179			3.32
	110	3342	2521	1949	1535	1227	991	807	661	543	352	272	205	149		3.28
	120	3760	2836	2192	1727	1380	1115	908	743	611	396	306	231	167		3.21
	130	4178	3151	2436	1919	1534	1239	1009	827	561	440	341	257	187		3.14
	140	4595	3466	2680	2111	1687	1363	1110	779	617	484	374	282	205		3.08
	160	5431	4097	3167	2495	1994	1611	1312	921	729	572	443	334	242	165	2.97
	180	6267	4727	3654	2879	2301	1859	1514	1063	842	661	511	386	280	190	2.87
	200	5605	4199	3222	2515	1989	1587	1073	824	623	459	324	211			2.79

Struts. Placing 1 girder in the centre of the span.

NOTE:
The tables presented serve as a pre-dimensioning of a mixed slab project, being a quick tool to define slab and steel thickness to be chosen as a starting point in the development of the project.

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