



SPA SIPs Floor Loading Capacity and Span Tables

DESIGN CRITERIA

1. SERVICEABILITY REQUIREMENTS CONTROL DESIGN
2. SERVICEABILITY LIMITS SPAN/300 OR MAX 12MM
3. SERVICEABILITY LOADING $G + 0.4Q$
4. DEAD LOAD "G" APPLIED 0.6 KPA

FOR RESIDENTIAL BUILDINGS

TABLE F1 FLOOR PANELS LVL SINGLE SPLINES Q = 1.5kPa		MAX SPAN (MM) FOR SERVICEABILITY LIMIT STATE LIVE					
		PANEL DESIGNATION					
		115	145	165	215	265	315
L/300	SINGLE SPAN	2335	3104	3616	4897	6178	7458
	2 SPAN CONT.	3124	4152	4838	6551	8264	9977
12MM	SINGLE SPAN	2617	3241	3635	4564	5433	6258
	2 SPAN CONT.	3256	4032	4522	5678	6759	7786

FOR RESIDENTIAL BUILDINGS (BALCONIES)

TABLE F1 FLOOR PANELS LVL SINGLE SPLINES Q = 2.0kPa		MAX SPAN (MM) FOR SERVICEABILITY LIMIT STATE LIVE					
		PANEL DESIGNATION					
		115	145	165	215	265	315
L/300	SINGLE SPAN	2254	2997	3492	4728	5965	7201
	2 SPAN CONT.	3016	4009	4671	6325	7979	9633
12MM	SINGLE SPAN	2549	3156	3540	4445	5292	6096
	2 SPAN CONT.	3171	3927	4404	5530	6584	7584



FOR COMMERCIAL BUILDINGS

TABLE F1 FLOOR PANELS LVL SINGLE SPLINES Q = 3.0kPa		MAX SPAN (MM) FOR SERVICEABILITY LIMIT STATE LIVE					
		PANEL DESIGNATION					
		115	145	165	215	265	315
L/300	SINGLE SPAN	2122	2820	3286	4450	5613	6777
	2 SPAN CONT.	2838	3773	4396	5953	7509	9065
12MM	SINGLE SPAN	2435	3016	3382	4247	5056	5824
	2 SPAN CONT.	3030	3752	4208	5284	6290	7246

TABLE F1 FLOOR PANELS LVL SINGLE SPLINES Q=4.0kPa		MAX SPAN (MM) FOR SERVICEABILITY LIMIT STATE LIVE					
		PANEL DESIGNATION					
		115	145	165	215	265	315
L/300	SINGLE SPAN	2016	2679	3122	4227	5333	6438
	2 SPAN CONT.	2696	3584	4176	5655	7133	8612
12MM	SINGLE SPAN	2343	2902	3254	4086	4865	5604
	2 SPAN CONT.	2915	3610	4049	5084	6053	6972

TABLE F1 FLOOR PANELS LVL SINGLE SPLINES Q=5.0kPa		MAX SPAN (MM) FOR SERVICEABILITY LIMIT STATE LIVE					
		PANEL DESIGNATION					
		115	145	165	215	265	315
L/300	SINGLE SPAN	1928	2563	2986	4043	5101	6158
	2 SPAN CONT.	2579	3428	3994	5409	6823	8237
12MM	SINGLE SPAN	2266	2806	3148	3952	4705	5420
	2 SPAN CONT.	2820	3492	3916	4917	5854	6743