

TIMBER TRADE FEDERATION

Permissible clear spans (mm) for domestic floor joists
for timber machined on all four sides in accordance with BS EN 336
imposed load not exceeding 1.50kN/m²
strength class C16 service class 1 or 2

c/c joist joist ref.	not more than 0.25				dead load kN/m ² excluding self weight of joist																not more than 0.75 but not more than 1.25			
					*		* more than 0.25 but * not more than 0.50		*		* more than 0.50 but * not more than 0.75		*											
	400	450	480	600	*	400	450	480	600	*	400	450	480	600	*	400	450	480	600	*	400	450	480	600
35 x 72	1048	937	881	708	*	987	887	835	676	*	938	845	798	649	*	861	779	737	397					
35 x 97	1755	1579	1489	1210	*	1609	1456	1377	1131	*	1499	1362	1291	1068	*	1341	1223	1163	971					
35 x 120	2381	2253	2131	1748	*	2236	2035	1930	1602	*	2054	1876	1784	1491	*	1803	1654	1577	1331					
35 x 145	2874	2755	2668	2388	*	2734	2579	2497	2150	*	2579	2432	2343	1976	*	2316	2134	2039	1736					
35 x 170	3365	3196	3095	2771	*	3171	2992	2898	2593	*	2992	2822	2733	2444	*	2708	2553	2471	2149					
35 x 195	3847	3631	3518	3150	*	3603	3400	3293	2948	*	3400	3207	3107	2779	*	3078	2903	2811	2511					
35 x 220	4302	4062	3936	3526	*	4030	3804	3685	3300	*	3804	3589	3476	3111	*	3445	3249	3146	2812					
44 x 72	1283	1163	1096	885	*	1211	1091	1030	839	*	1142	1033	976	802	*	1037	943	894	740					
44 x 97	1970	1860	1802	1496	*	1868	1767	1674	1384	*	1786	1640	1557	1297	*	1592	1459	1389	1168					
44 x 120	2574	2474	2420	2142	*	2461	2357	2289	1939	*	2358	2234	2128	1792	*	2121	1952	1864	1583					
44 x 145	3104	2984	2921	2676	*	2968	2853	2797	2504	*	2853	2725	2639	2352	*	2615	2466	2388	2048					
44 x 170	3633	3493	3418	3105	*	3474	3349	3244	2906	*	3349	3161	3061	2741	*	3034	2862	2771	2478					
44 x 195	4159	4000	3935	3528	*	3979	3804	3687	3303	*	3804	3591	3479	3116	*	3448	3253	3150	2819					
44 x 220	4684	4505	4400	3947	*	4482	4255	4123	3695	*	4255	4017	3892	3486	*	3857	3640	3526	3155					
60 x 97	2281	2159	2094	1881	*	2154	2042	1982	1786	*	2054	1949	1893	1669	*	1900	1806	1747	1483					
60 x 120	2854	2745	2687	2493	*	2731	2625	2569	2381	*	2625	2523	2469	2272	*	2454	2352	2289	1983					
60 x 145	3440	3309	3239	3007	*	3292	3166	3098	2874	*	3166	3044	2978	2755	*	2960	2845	2786	2494					
60 x 170	4023	3871	3790	3520	*	3852	3704	3626	3365	*	3704	3562	3487	3196	*	3465	3336	3231	2894					
60 x 195	4603	4431	4338	4030	*	4407	4241	4151	3847	*	4241	4079	3992	3631	*	3968	3789	3672	3289					
60 x 220	5041	4900	4823	4539	*	4880	4742	4675	4302	*	4742	4594	4496	4062	*	4487	4238	4107	3680					
72 x 97	2456	2351	2281	2054	*	2337	2217	2154	1945	*	2223	2112	2054	1859	*	2053	1953	1900	1697					
72 x 120	3031	2915	2854	2650	*	2900	2789	2731	2534	*	2789	2683	2625	2435	*	2609	2508	2454	2252					
72 x 145	3651	3513	3440	3196	*	3495	3363	3292	3057	*	3363	3234	3166	2938	*	3147	3026	2960	2731					
72 x 170	4267	4108	4023	3739	*	4087	3933	3852	3577	*	3933	3784	3704	3439	*	3682	3541	3465	3167					
72 x 195	4822	4700	4603	4280	*	4676	4501	4407	4096	*	4501	4332	4241	3938	*	4215	4055	3968	3599					
72 x 220	5265	5119	5041	4775	*	5100	4957	4880	4612	*	4957	4818	4742	4439	*	4721	4566	4487	4025					
38 x 140	2854	2743	2690	2408	*	2728	2599	2518	2179	*	2599	2452	2370	2002	*	2342	2159	2064	1757					
38 x 184	3741	3582	3471	3108	*	3554	3355	3249	2909	*	3355	3165	3065	2743	*	3038	2864	2773	2479					
38 x 235	4731	4494	4355	3904	*	4460	4211	4080	3655	*	4211	3975	3851	3447	*	3815	3600	3487	3118					