

Plain

Notes:-
 1. Deflection in the table above is limited to span/200 or 10mm, whichever is the lesser.
 2. It should be noted that the difference in level between a loaded and a neighbouring unloaded flooring shall not exceed 4mm. LK panel joint clips can be used to negate this issue. The below tables have both options listed.
 3. The below tables are based upon: BS4592-0:2006+A1:2012 & BS9950-1:2000 Table 2 Which is a 5kN/m² or 7.5kN/m² UDL OR a 1.5kN point load over a 200mmx200mm contact area, whichever is the more onerous.
 4. The below tables take into consideration MINIMUM bearing bar rolling tolerances as defined by LKFS-STD-98
 5. The patch load is placed on the centre of the panel for calculation purposes.
 6. Material is BS EN 10025 Grade S275JR

Bearing bar dimensions (mm)	Loading category	PATCH LOAD AT CENTRE OF PNL - 4mm MAX DEF		PATCHLOAD AT CENTRE OF PNL - L/200 OR 10mm MAX DEF		
		Max clear span for pedestrian loading categories	Deflection (mm)	Max clear span for pedestrian loading categories	Deflection (mm)	
20 x 3	5kN/m ²	725	3.62	725	4.63	kN/m ²
	7.5kN/m ²	725	3.97	725	4.07	D (mm)
25 x 3	5kN/m ²	950	3.98	1085	5.84	kN/m ²
	7.5kN/m ²	950	3.98	1035	5.42	D (mm)
30 x 3	5kN/m ²	1150	3.98	1420	7.07	kN/m ²
	7.5kN/m ²	1115	3.98	1245	6.16	D (mm)
35 x 3	5kN/m ²	1355	3.99	1655	8.22	kN/m ²
	7.5kN/m ²	1255	4.00	1455	7.22	D (mm)
40 x 3	5kN/m ²	1530	4.00	1895	9.41	kN/m ²
	7.5kN/m ²	1385	3.95	1665	8.25	D (mm)

Bearing bar dimensions (mm)	Loading category	PATCH LOAD AT CENTRE OF PNL - 4mm MAX DEF		PATCH LOAD AT CENTRE OF PNL - L/200 OR 10mm MAX DEF		
		Max clear span for pedestrian loading categories	Deflection (mm)	Max clear span for pedestrian loading categories	Deflection (mm)	
20 x 3	5kN/m ²	685	3.98	685	4.55	kN/m ²
	7.5kN/m ²	685	3.42	685	3.94	D (mm)
25 x 3	5kN/m ²	920	3.99	1020	5.66	kN/m ²
	7.5kN/m ²	920	3.99	1005	4.98	D (mm)
30 x 3	5kN/m ²	1110	3.97	1380	6.89	kN/m ²
	7.5kN/m ²	1090	3.97	1210	6.02	D (mm)
35 x 3	5kN/m ²	1310	4.00	1610	8.04	kN/m ²
	7.5kN/m ²	1225	4.00	1415	7.07	D (mm)
40 x 3	5kN/m ²	1495	3.98	1840	9.14	kN/m ²
	7.5kN/m ²	1355	3.96	1620	8.09	D (mm)

Bearing bar dimensions (mm)	Loading category	PATCHLOAD AT CENTRE OF PNL - 4mm MAX DEF		PATCH LOAD AT CENTRE OF PNL - L/200 OR 10mm MAX DEF		
		Max clear span for pedestrian loading categories	Deflection (mm)	Max clear span for pedestrian loading categories	Deflection (mm)	
20 x 3	5kN/m ²	600	3.91	600	4.20	kN/m ²
	7.5kN/m ²	600	2.99	600	3.69	D (mm)
25 x 3	5kN/m ²	845	3.95	885	5.25	kN/m ²
	7.5kN/m ²	845	3.95	885	4.63	D (mm)
30 x 3	5kN/m ²	1025	3.98	1240	6.41	kN/m ²
	7.5kN/m ²	1025	3.98	1125	5.58	D (mm)
35 x 3	5kN/m ²	1205	3.98	1500	7.49	kN/m ²
	7.5kN/m ²	1160	3.98	1315	6.54	D (mm)
40 x 3	5kN/m ²	1390	3.99	1715	8.52	kN/m ²
	7.5kN/m ²	1285	3.99	1505	7.47	D (mm)

Bearing bar dimensions (mm)	Loading category	POINT LOAD AT CENTRE OF PNL - 4mm MAX DEF		POINT LOAD AT CENTRE OF PNL - L/200 MAX DEF		
		Max clear span for pedestrian loading categories	Deflection (mm)	Max clear span for pedestrian loading categories	Deflection (mm)	
20 x 5	5kN/m ²	1000	3.98	1125	5.56	kN/m ²
	7.5kN/m ²	940	3.99	990	4.81	D (mm)
25 x 5	5kN/m ²	1225	3.99	1410	7.00	kN/m ²
	7.5kN/m ²	1110	3.95	1240	6.15	D (mm)
30 x 5	5kN/m ²	1445	4.00	1760	8.80	kN/m ²
	7.5kN/m ²	1310	3.95	1550	7.74	D (mm)
35 x 5	5kN/m ²	1615	3.97	2030	9.92	kN/m ²
	7.5kN/m ²	1470	3.98	1800	9.94	D (mm)
40 x 5	5kN/m ²	1735	3.97	2185	9.98	kN/m ²
	7.5kN/m ²	1580	3.96	1985	9.87	D (mm)
45 x 5	5kN/m ²	1900	3.99	2390	9.99	kN/m ²
	7.5kN/m ²	1730	3.98	2175	9.95	D (mm)
50 x 5	5kN/m ²	2045	3.98	2570	9.93	kN/m ²
	7.5kN/m ²	1865	3.97	2345	9.92	D (mm)
60 x 5	5kN/m ²	2335	3.98	2935	9.95	kN/m ²
	7.5kN/m ²	2135	3.99	2685	9.97	D (mm)

Bearing bar dimensions (mm)	Loading category	POINT LOAD AT CENTRE OF PNL - 4mm MAX DEF		POINT LOAD AT CENTRE OF PNL - L/200 MAX DEF		
		Max clear span for pedestrian loading categories	Deflection (mm)	Max clear span for pedestrian loading categories	Deflection (mm)	
20 x 5	5kN/m ²	965	3.98	1095	5.45	kN/m ²
	7.5kN/m ²	915	3.98	960	4.75	D (mm)
25 x 5	5kN/m ²	1195	3.94	1370	6.81	kN/m ²
	7.5kN/m ²	1085	3.94	1205	6.00	D (mm)
30 x 5	5kN/m ²	1410	3.95	1705	8.45	kN/m ²
	7.5kN/m ²	1285	4.00	1505	7.52	D (mm)
35 x 5	5kN/m ²	1580	3.97	1985	9.88	kN/m ²
	7.5kN/m ²	1440	4.00	1750	8.72	D (mm)
40 x 5	5kN/m ²	1700	3.98	2140	10.00	kN/m ²
	7.5kN/m ²	1545	3.95	1930	9.63	D (mm)
45 x 5	5kN/m ²	1860	3.99	2340	10.00	kN/m ²
	7.5kN/m ²	1690	3.96	2130	9.99	D (mm)
50 x 5	5kN/m ²	2005	4.00	2520	9.98	kN/m ²
	7.5kN/m ²	1825	3.97	2295	9.92	D (mm)
60 x 5	5kN/m ²	2290	4.00	2875	9.93	kN/m ²
	7.5kN/m ²	2090	3.99	2630	10.00	D (mm)

Bearing bar dimensions (mm)	Loading category	POINT LOAD AT CENTRE OF PNL - 4mm MAX DEF		POINT LOAD AT CENTRE OF PNL - L/200 MAX DEF		
		Max clear span for pedestrian loading categories	Deflection (mm)	Max clear span for pedestrian loading categories	Deflection (mm)	
20 x 5	5kN/m ²	885	3.99	955	5.08	kN/m ²
	7.5kN/m ²	870	3.98	895	4.46	D (mm)
25 x 5	5kN/m ²	1115	3.97	1275	6.31	kN/m ²
	7.5kN/m ²	1030	3.97	1120	5.54	D (mm)
30 x 5	5kN/m ²	1340	3.97	1595	7.97	kN/m ²
	7.5kN/m ²	1215	3.95	1400	6.97	D (mm)
35 x 5	5kN/m ²	1500	3.96	1855	9.27	kN/m ²
	7.5kN/m ²	1365	3.99	1630	8.11	D (mm)
40 x 5	5kN/m ²	1615	3.98	2030	9.93	kN/m ²
	7.5kN/m ²	1470	4.00	1800	8.98	D (mm)
45 x 5	5kN/m ²	1765	3.97	2220	9.93	kN/m ²
	7.5kN/m ²	1605	3.97	2020	9.96	D (mm)
50 x 5	5kN/m ²	1905	3.98	2395	9.95	kN/m ²
	7.5kN/m ²	1735	3.99	2180	9.94	D (mm)
60 x 5	5kN/m ²	2180	4.00	2740	9.98	kN/m ²
	7.5kN/m ²	1985	3.98	2495	9.93	D (mm)



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