

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 & BS5950-1:2000 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

LOAD TABLE FOR 20mm BALLPROOF. (3mm BARS AT 21.5mm CRS)

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	850	3.96	890	4.42	kN/m ²
	7.5kN/m ²	850	3.96	890	4.42	D (mm)
25 x 3	5kN/m ²	1075	3.98	1300	6.16	kN/m ²
	7.5kN/m ²	1055	3.99	1155	5.73	D (mm)
30 x 3	5kN/m ²	1305	4.00	1580	7.90	kN/m ²
	7.5kN/m ²	1210	3.98	1390	6.90	D (mm)
35 x 3	5kN/m ²	1535	3.99	1840	9.17	kN/m ²
	7.5kN/m ²	1355	3.94	1620	8.05	D (mm)
40 x 3	5kN/m ²	1855	4.00	2080	9.98	kN/m ²
	7.5kN/m ²	1505	4.00	1855	9.23	D (mm)

LOAD TABLE FOR 35mm BALLPROOF. (3mm BARS AT 36.6mm CRS)

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	630	3.15	630	3.15	kN/m ²
	7.5kN/m ²	630	3.15	630	3.15	D (mm)
25 x 3	5kN/m ²	875	3.99	930	4.61	kN/m ²
	7.5kN/m ²	875	3.99	930	4.61	D (mm)
30 x 3	5kN/m ²	1060	4.00	1170	5.05	kN/m ²
	7.5kN/m ²	1060	4.00	1170	5.02	D (mm)
35 x 3	5kN/m ²	1240	3.96	1420	5.43	kN/m ²
	7.5kN/m ²	1195	3.97	1365	6.77	D (mm)
40 x 3	5kN/m ²	1430	3.98	1700	7.35	kN/m ²
	7.5kN/m ²	1320	3.95	1565	7.79	D (mm)

LOAD TABLE FOR UTILITY (3mm BARS AT 47.0mm CRS)

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	475	1.87	475	1.87	kN/m ²
	7.5kN/m ²	475	1.87	475	1.87	D (mm)
25 x 3	5kN/m ²	775	3.69	775	3.69	kN/m ²
	7.5kN/m ²	775	3.69	775	3.69	D (mm)
30 x 3	5kN/m ²	965	3.98	1035	4.70	kN/m ²
	7.5kN/m ²	965	3.98	1035	4.70	D (mm)
35 x 3	5kN/m ²	1135	3.99	1255	5.05	kN/m ²
	7.5kN/m ²	1125	3.99	1255	6.17	D (mm)
40 x 3	5kN/m ²	1305	3.98	1495	5.46	kN/m ²
	7.5kN/m ²	1245	3.98	1440	7.12	D (mm)

LOAD TABLE FOR 20mm BALLPROOF. (5mm BARS AT 23.5mm CRS)

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	1095	3.96	1220	6.10	kN/m ²
	7.5kN/m ²	995	3.96	1070	5.30	D (mm)
25 x 5	5kN/m ²	1290	3.90	1525	7.82	kN/m ²
	7.5kN/m ²	1180	3.98	1340	6.63	D (mm)
30 x 5	5kN/m ²	1485	3.98	1825	9.09	kN/m ²
	7.5kN/m ²	1350	3.95	1610	8.00	D (mm)
35 x 5	5kN/m ²	1685	4.00	2090	9.91	kN/m ²
	7.5kN/m ²	1515.00	3.96	1880	9.39	D (mm)
40 x 5	5kN/m ²	1830.00	3.94	2305	9.92	kN/m ²
	7.5kN/m ²	1675.00	3.98	2105	9.94	D (mm)
45 x 5	5kN/m ²	2005.00	3.97	2525	9.99	kN/m ²
	7.5kN/m ²	1830.00	3.97	2305	9.99	D (mm)
50 x 5	5kN/m ²	2160.00	4.00	2715	9.98	kN/m ²
	7.5kN/m ²	1975.00	3.99	2485	9.99	D (mm)
60 x 5	5kN/m ²	2460.00	3.98	3095	9.98	kN/m ²
	7.5kN/m ²	2255.00	3.98	2835	9.95	D (mm)

LOAD TABLE FOR 35mm BALLPROOF. (5mm BARS AT 38.0mm CRS)

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	905	3.97	1000	4.99	kN/m ²
	7.5kN/m ²	885	3.95	920	4.6	D (mm)
25 x 5	5kN/m ²	1145	3.99	1310	6.51	kN/m ²
	7.5kN/m ²	1050	3.96	1150	5.7	D (mm)
30 x 5	5kN/m ²	1330	4	1575	7.86	kN/m ²
	7.5kN/m ²	1205	3.96	1385	6.91	D (mm)
35 x 5	5kN/m ²	1490	3.97	1835	9.13	kN/m ²
	7.5kN/m ²	1355.00	3.98	1615	8.03	D (mm)
40 x 5	5kN/m ²	1645.00	3.97	2070	9.96	kN/m ²
	7.5kN/m ²	1495.00	3.95	1845.00	9.18	D (mm)
45 x 5	5kN/m ²	1800.00	3.98	2285	9.98	kN/m ²
	7.5kN/m ²	1635.00	3.96	2060	9.98	D (mm)
50 x 5	5kN/m ²	1940.00	3.98	2440	9.95	kN/m ²
	7.5kN/m ²	1765.00	3.96	2225	9.99	D (mm)
60 x 5	5kN/m ²	2200.00	4.00	2790	9.98	kN/m ²
	7.5kN/m ²	2020.00	3.96	2545	9.98	D (mm)

LOAD TABLE FOR UTILITY. (5mm BARS AT 47.0mm CRS)

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	830	3.95	860	4.29	kN/m ²
	7.5kN/m ²	830	3.95	855	4.22	D (mm)
25 x 5	5kN/m ²	1050	3.98	1225	6.1	kN/m ²
	7.5kN/m ²	995	3.92	1075	5.34	D (mm)
30 x 5	5kN/m ²	1265	4	1470	7.29	kN/m ²
	7.5kN/m ²	1145	3.96	1290	6.38	D (mm)
35 x 5	5kN/m ²	1415	3.95	1715	8.52	kN/m ²
	7.5kN/m ²	1285.00	3.95	1510	7.63	D (mm)
40 x 5	5kN/m ²	1565.00	3.97	1960	9.77	kN/m ²
	7.5kN/m ²	1420.00	3.95	1725.00	8.59	D (mm)
45 x 5	5kN/m ²	1710.00	3.96	2155	9.98	kN/m ²
	7.5kN/m ²	1555.00	3.97	1955	9.91	D (mm)
50 x 5	5kN/m ²	1850.00	3.99	2325	9.97	kN/m ²
	7.5kN/m ²	1680.00	3.97	2115	9.97	D (mm)
60 x 5	5kN/m ²	2115.00	3.99	2660	9.98	kN/m ²
	7.5kN/m ²	1925.00	3.98	2420	9.95	D (mm)



Belfast:
 103 Airport Road West, Belfast, Co. Down, BT3 9ED
 Tel: +44 (0) 28 90 454599

Ashbourne:
 Unit 1 & 2 Greene Park, Ratoath Road, Ashbourne, Co. Meath A84 XD98
 Tel: +353 (01) 802 7173

Website: www.ridgeway-online.com
 Email: info@ridgeway-online.com