

# LOAD DEFLECTION TABLE

## LOAD DEFLECTION TABLE FOR ELECTROFORGE GRATINGS 40 MM - BEARING BARS CENTRE TO CENTRE

BEARING BAR SIZE IN MM	SPAN														
		300	450	600	750	900	1050	1200	1350	1650	1800	1950	2100	2250	2400
25 X 3	U	11000	4880	2740	1760	1230	900	680			U = Uniformly distributed load in kg/sq.m				
	D	0.6	1.4	2.6	3.9	5.9	7.9	10.0			C = Concentrated load in kg/sq.m				
	C	1660	1100	820	680	550	470	410			D = Deflection in millimetres				
	D	0.5	1.1	2.0	3.1	4.3	6.1	8.0							
25 X 5	U	18300	8100	4560	2920	2020	1490	1150	850						
	D	0.6	1.4	2.5	3.9	5.6	7.5	10.0	12.7						
	C	2740	1820	1370	1100	910	780	690	570						
	D	0.5	1.1	2.0	3.1	4.3	6.1	8.0	10.5						
30 X 3	U	15800	7100	3950	2520	1750	1290	990	780	680	600				
	D	0.5	1.1	2.1	3.2	4.3	5.4	6.5	7.2	8.3	12.9				
	C	2370	1580	1180	950	790	670	590	520	410	400				
	D	0.4	0.9	1.5	2.6	3.7	5.0	6.6	8.3	9.4	10.3				
30 X 5	U	22800	11700	6580	4210	2920	2150	1610	1300	1050	860				
	D	0.5	1.1	2.1	3.2	4.3	5.4	6.5	7.2	10.8	12.9				
	C	3950	2630	1970	1580	1310	1130	980	870	780	710				
	D	0.4	0.9	1.6	2.6	3.7	5.0	6.6	8.3	9.4	13.5				
40 X 3	U	28100	12500	7100	4490	3100	2280	1740	1380	1120	920	770	660		
	D	0.3	0.8	1.5	2.4	3.5	4.8	6.2	7.9	9.7	11.8	13.8	16.4		
	C	4200	2800	2110	1690	1400	1200	1050	930	840	760	700	640		
	D	0.3	0.7	1.2	2.1	2.8	3.9	4.9	6.3	7.7	9.4	11.2	13.0		
40 X 5	U	47200	20800	11700	7500	5200	3820	2920	2310	1860	1650	1230	1100	950	830
	D	0.3	0.8	1.5	2.4	3.5	4.8	6.2	7.9	9.7	11.8	13.8	16.4	19.5	20.6
	C	7000	4680	3510	2800	2330	2010	1750	1560	1400	1270	1170	1080	1000	930
	D	0.3	0.7	1.2	2.1	2.8	3.9	4.9	6.3	7.7	9.4	11.2	13.0	15.1	17.3

- Spans to the left of red line (Heavy Line) produces a deflection of 6 mm or less under a uniform load of 500kg./sqm. which is recommended as per BS 4592-0-2006
- For Gratings with Bearings bars center to center distance 35 mm, multiply the above load figures by 1.2
- For Gratings with Bearings bars center to center distance 30 mm, multiply the above load figures by 1.3

# GRATING WEIGHT TABLE

(Approx. theoretical Grating Weight in Kg./Sqm. for square twisted cross bar size 6mm diagonal)

MESS SIZE	BEARING BAR SIZE							
	25 X 3	25 X 5	30 X 3	30 X 5	32 X 3	32 X 5	40 X 3	40 X 5
40 X 100	18.5	29.5	21.8	35.0	23.1	37.2	28.4	46.0
35 X 100	20.8	33.4	24.6	39.7	26.1	42.2	32.2	52.3
30 X 100	23.2	37.3	27.5	44.4	29.1	47.3	36.0	58.6
40 X 75	19.3	30.4	22.7	35.9	24.0	38.1	29.3	46.9
35 X 75	21.7	34.3	25.5	40.6	27.0	43.1	33.0	53.2
30 X 75	24.1	38.2	28.3	45.3	30.0	48.1	36.8	59.5
40 X 50	20.7	31.7	24.0	37.2	25.3	39.4	30.6	48.2
35 X 50	23.0	35.6	26.8	41.9	28.3	44.4	34.4	54.5
30 X 50	25.4	39.6	29.7	46.6	31.3	49.5	38.1	60.8