

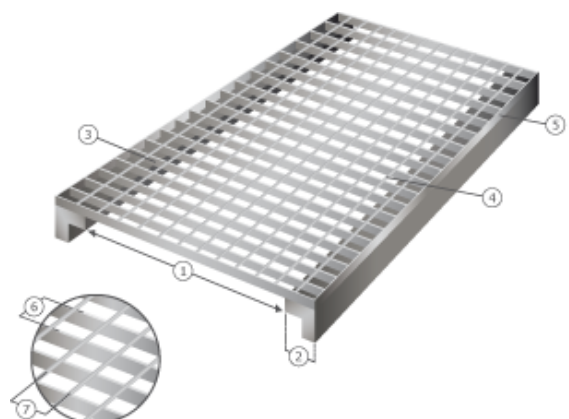
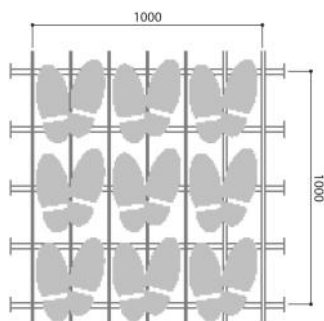
## LOADING TABLES Electrofused Gratings for Pedestrian Use & Service Access

Loading tables for electrofused gratings provide information relating to uniformly distributed loads (UDL) in kiloNewtons per square metre which will result in a deflection within 1/200th of the clear span or 10mm whichever is the lesser. The calculations shown in this guide were derived using performance characteristics for Mild Steel (BS EN 10025: S235JR) manufactured in accordance with industry standards.

All information conforms to BS EN ISO14122 parts 1-3  
 Part 1: Choice of fixed means of access between 2 levels  
 Part 2: Working platforms and walkways  
 Part 3: Stairways, stepladders and guard-rails

Type of use	Flooring
Two way pedestrian traffic	5kN/m <sup>2</sup>
Two way pedestrian traffic with service equipment	7.5kN/m <sup>2</sup>

Source: British Standard  
 Ref: BS 5395-3 Flooring  
 Ref: BS 4592-1 Flooring  
 Ref: BS 4592-1 Stairtreads



1. Clear Span	5. Framing Bar
2. Bearing Area	6. Load Bearing Bar Centres
3. Load Bearing Bar	7. Transverse Bar Centres
4. Transverse Bar	

# LANGFULTON

## LANG+FULTON Loading Tables for electrofused gratings

Standard		BS 4592 Part 1 Industrial floorings			
Steel		S235 JR			
Sigma		1600 daN/cm <sup>2</sup> ,			
Elastic Deflection		< 1/200Ln, <10mm			

Bearing bar pitch: 11mm					
Uniform Load		5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
Bearing bar	<i>Galvanized</i>	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	<i>kg/m<sup>2</sup></i>	mm	mm	mm	mm
25x2	38.3	1562	7.80	1365	6.82

Bearing bar pitch: 15mm					
Uniform Load		5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
Bearing bar	<i>Galvanized</i>	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	<i>kg/m<sup>2</sup></i>	mm	mm	mm	mm
25x2	29.0	1409	7.04	1231	6.15
30x2	34.6	1691	8.45	1477	7.38
25x3	43.7	1613	8.06	1409	7.04
40x2	46.5	2188	9.99	1970	9.85
30x3	52.0	1936	9.68	1691	8.45
50x2	57.6	2587	10.00	2337	9.99
40x3	68.7	2421	10.00	2188	10.00
50x3	85.3	2863	10.00	2587	10.00
60x3	102.0	3282	9.99	2966	10.00
50x4	116.3	3076	10.00	2780	10.00
70x3	118.6	3685	10.00	3329	9.99
80x3	135.3	4073	10.00	3680	9.99
60x4	138.9	3527	10.00	3187	10.00
70x4	161.5	3959	10.00	3578	10.00
80x4	176.9	4376	10.00	3954	10.00

Bearing bar pitch: 22mm					
Uniform Load		5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
Bearing bar	<i>Galvanized</i>	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	<i>kg/m<sup>2</sup></i>	mm	mm	mm	mm
25x2	21.1	1240	6.19	1083	5.40
30x2	24.8	1488	7.43	1300	6.49
25x3	30.5	1420	7.10	1240	6.19
30x3	38.2	1704	8.52	1488	7.43
40x3	50.3	2200	10.00	1984	9.91
50x3	62.3	2601	9.99	2350	9.98
40x4	68.3	2364	10.00	2136	10.00
50x4	84.6	2795	10.00	2526	10.00
60x4	100.8	3205	10.00	2896	10.00
70x4	117.1	3598	10.00	3251	10.00

Bearing bar pitch: 25mm					
Uniform Load		5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
Bearing bar	<i>Galvanized</i>	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	kg/m <sup>2</sup>	mm	mm	mm	mm
25x2	18.2	1188	5.93	1038	5.18
30x2	21.6	1426	7.12	1246	6.23
25x3	27.4	1360	6.79	1188	5.93
40x2	28.8	1902	9.51	1661	8.30
30x3	32.5	1632	8.15	1426	7.12
50x2	35.4	2276	9.98	2057	9.99
40x3	42.7	2131	10.00	1902	9.51
50x3	52.1	2519	10.00	2276	10.00
40x4	57.8	2290	10.00	2069	10.00
60x3	62.1	2889	10.00	2610	9.99
50x4	71.4	2707	10.00	2446	10.00
60x4	85.0	3104	10.00	2805	10.00
80x3	82.0	3584	9.99	3239	10.00
70x4	98.5	3485	10.00	3149	10.00

Bearing bar pitch: 30mm					
Uniform Load		5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
Bearing bar	<i>Galvanized</i>	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	kg/m <sup>2</sup>	mm	mm	mm	mm
25x3	23.9	1280	6,39	1118	5.58
30x3	28.1	1536	7.67	1342	6.70
40x3	36.6	2036	9.99	1789	8.93
40x4	48.0	2188	10.00	1970	9,85

Bearing bar pitch: 34mm					
Uniform Load		5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
Bearing bar	<i>Galvanized</i>	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	kg/m <sup>2</sup>	mm	mm	mm	mm
25x2	14.5	1072	5.35	937	4.68
30x2	17.0	1287	6.43	1124	5.61
25x3	22.2	1228	6.14	1072	5.35
40x2	22.0	1716	8.57	1499	7.48
30x3	25.9	1473	7.35	1287	6.43
40x3	33.4	1965	9.82	1716	8.57
50x3	40.9	2333	10.00	2108	10.00
40x4	44.5	2121	10.00	1889	9.44
50x4	54.5	2507	10.00	2265	10.00
60x4	64.5	2874	10.00	2597	10.00

The information regarding product application is a guide in the use of the product and not a guarantee as to its performance since we have no control over the use or conditions to which other parties may apply the product. The specifier or customer must satisfy themselves that the product is suitable for the purpose and conditions of use. In no event will we be liable for any loss or damage including without limitation, indirect or consequential loss or damage.