

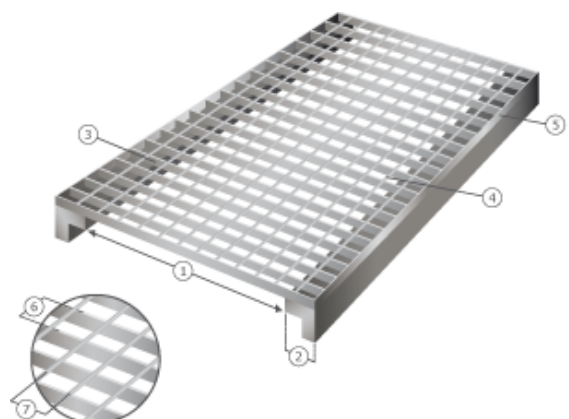
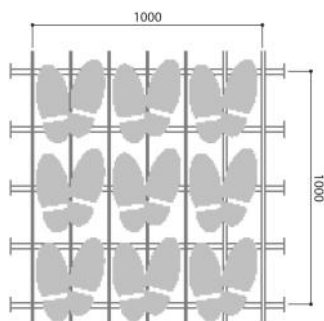
## LOADING TABLES Electrofused Gratings for Pedestrian Use & Service Access

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

**SUPPLIERS OF ARCHITECTURAL GRATINGS - LOUVRED GRILLES - FENCING AND GATES**

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<b>LANG+FULTON Loading Tables for electrofused gratings</b>	
Standard	BS 4592 Part 1 Industrial floorings
Steel	S235 JR
Sigma	1600 daN/cm <sup>2</sup> ,
Elastic Deflection	< 1/200Ln, <10mm

<b>Pitch 11mm</b>				
Uniform Load Bearing bar	5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm
25x2	1562	7.8	1365	6.82

<b>Pitch 15mm</b>				
Uniform Load Bearing bar	5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm
25x2	1409	7.04	1231	6.15
30x2	1691	8.45	1477	7.38
40x2	2188	9.99	1970	9.85
50x2	2587	10.00	2337	9.99
50x3	2863	10.00	2587	10.00
60x3	3282	9.99	2966	10.00
70x3	3685	10.00	3329	9.99
80x3	4073	10.00	3680	9.99

<b>Pitch 22mm</b>				
Uniform Load Bearing bar	5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm
25x2	1240	6.19	1083	5.40
30x2	1488	7.43	1300	6.49
40x2	1984	9.91	1733	8.65
50x2	2350	9.98	2124	9.99
50x3	2601	9.99	2350	9.98

<b>Pitch 25mm</b>				
Uniform Load Bearing bar	5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm
25x2	1188	5.93	1038	5.18
30x2	1426	7.12	1246	6.23
40x2	1902	9.51	1661	8.3
50x2	2276	9.98	2057	9.99
50x3	2519	10.00	2276	10.00
60x3	2889	10.00	2610	9.99
70x3	3243	10.00	2930	9.99
80x3	3584	9.99	3239	10.00

Pitch 30mm				
Uniform Load Bearing bar	5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm
25x3	1280	6,39	1118	5.58
30x3	1536	7.67	1342	6.7
40x3	2036	9.99	1789	8.93
40x4	2188	10.00	1970	9,85

Pitch 34mm				
Uniform Load Bearing bar	5 KN/m <sup>2</sup>		7,5 KN/m <sup>2</sup>	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm
25x2	1072	5.35	937	4.68
25x3	1228	6.14	1072	5.35
30x2	1287	6.43	1124	5.61
30x3	1473	7.35	1287	6.43
40x2	1716	8.57	1499	7.48
40x3	1965	9.82	1716	8.57
40x4	2121	10.00	1889	9.44
50x3	2333	10.00	2108	10.00
50x4	2507	10.00	2265	10.00
60x4	2874	10.00	2597	10.00

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