



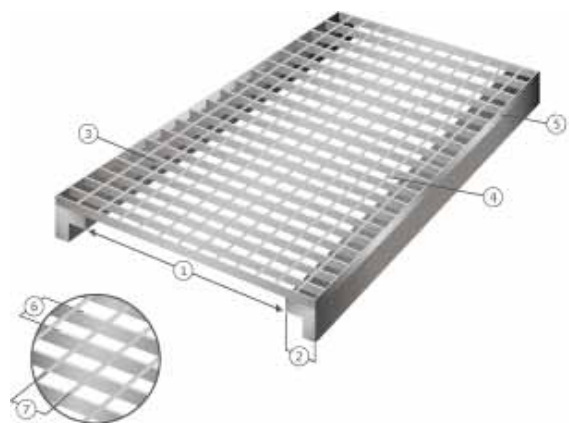
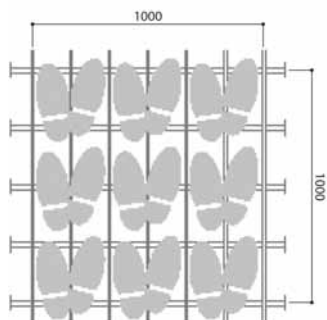
LOADING TABLES FOR PEDESTRIAN USE AND SERVICE ACCESS

Orsogril loading tables for *Potissimum* 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
Single person	3kN/m ²
Two way pedestrian traffic	5kN/m ²
Two way pedestrian traffic with service equipment	7.5kN/m ²

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	

ORSOGRIL^{UK}

SUPPLIERS OF ARCHITECTURAL GRATINGS, LOUVRED GRILLES, FENCING AND GATES

tel 0131 441 1255 fax 0131 441 4161 sales@orsogril.co.uk www.orsogril.co.uk

ORSOGRIL Potissimum Loading Tables

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

Pitch 11mm						
Uniform Load Bearing bar	3 KN/m ²		5 KN/m ²		7,5 KN/m ²	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm	mm	mm
25x2	1853	9.26	1562	7.8	1365	6.82

Pitch 15mm						
Uniform Load Bearing bar	3 KN/m ²		5 KN/m ²		7,5 KN/m ²	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm	mm	mm
25x2	1671	8.35	1409	7.04	1231	6.15
30x2	2003	9.98	1691	8.45	1477	7.38
40x2	2486	9.99	2188	9.99	1970	9.85
50x2	2939	9.99	2587	10.00	2337	9.99
50x3	3253	10.00	2863	10.00	2587	10.00
60x3	3729	9.99	3282	9.99	2966	10.00
70x3	4186	9.99	3685	10.00	3329	9.99
80x3	4628	10.00	4073	10.00	3680	9.99

Pitch 22mm						
Uniform Load Bearing bar	3 KN/m ²		5 KN/m ²		7,5 KN/m ²	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm	mm	mm
25x2	1470	7.34	1240	6.19	1083	5.40
30x2	1764	8.81	1488	7.43	1300	6.49
40x2	2259	9.99	1984	9.91	1733	8.65
50x2	2671	10.00	2350	9.98	2124	9.99
50x3	2956	10.00	2601	9.99	2350	9.98

Pitch 25mm						
Uniform Load Bearing bar	3 KN/m ²		5 KN/m ²		7,5 KN/m ²	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm	mm	mm
25x2	1409	7.04	1188	5.93	1038	5.18
30x2	1691	8.45	1426	7.12	1246	6.23
40x2	2188	10.00	1902	9.51	1661	8.3
50x2	2587	10.00	2276	9.98	2057	9.99
50x3	2863	10.00	2519	10.00	2276	10.00
60x3	3282	9.99	2889	10.00	2610	9.99
70x3	3685	10.00	3243	10.00	2930	9.99
80x3	4073	10.00	3584	9.99	3239	10.00

Pitch 30mm						
Uniform Load Bearing bar	3 KN/m ²		5 KN/m ²		7,5 KN/m ²	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm	mm	mm
25x3	1518	7.59	1280	6,39	1118	5.58
30x3	1821	9.09	1536	7.67	1342	6.7
40x3	2314	10.00	2036	9.99	1789	8.93
40x4	2486	9.99	2188	10.00	1970	9,85

Pitch 34mm						
Uniform Load Bearing bar	3 KN/m ²		5 KN/m ²		7,5 KN/m ²	
	Max. Clear Span	Deflection	Max. Clear Span	Deflection	Max. Clear Span	Deflection
	mm	mm	mm	mm	mm	mm
25x2	1272	6.36	1072	5.35	937	4.68
25x3	1456	7.28	1228	6.14	1072	5.35
30x2	1526	7.62	1287	6.43	1124	5.61
30x3	1747	8.73	1473	7.35	1287	6.43
40x2	2026	9.99	1716	8.57	1499	7.48
40x3	2242	9.99	1965	9.82	1716	8.57
40x4	2409	9.98	2121	10.00	1889	9.44
50x3	2651	10.00	2333	10.00	2108	10.00
50x4	2848	10.00	2507	10.00	2265	10.00
60x4	3266	10.00	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.