

safety grating – type W plain



max clear span for pedestrian loadings (mm)	def (mm)	L.B.B. size (mm)	'W' load bars at 41mm centres														Self Colour Weights per square metre (kgs)	Binding Bar Weight (based on 2 x 1m) (kgs)		
			clear span (mm)																	
				300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100				
a.890	4.36	20 x 3	kN/m ²	79.0	35.0	18.2	9.30												26.85	0.86
b.890	4.36		D (mm)	0.81	1.82	3.00	3.75													
c.800	3.90																			
a.1240	6.11	25 x 3	kN/m ²	124	55.0	31.0	18.2	10.5	6.60	4.40									29.60	1.08
b.1150	5.69		D (mm)	0.65	1.47	2.61	3.75	4.50	5.25	6.00										
c.1000	4.88																			
a.1560	7.08	30 x 3	kN/m ²	179	79.0	44.0	28.5	18.2	11.5	7.65	5.38	3.93							32.35	1.30
b.1385	6.92		D (mm)	0.55	1.22	2.15	3.35	4.50	5.25	6.00	6.75	7.50								
c.1200	5.85																			
a.1910	9.46	35 x 3	kN/m ²	244	108	61.0	38.9	27.0	18.2	12.2	8.56	6.25	4.69						34.85	1.50
b.1615	8.06		D (mm)	0.47	1.05	1.87	2.92	4.19	5.25	6.00	6.75	7.50	8.25							
c.1410	7.03																			
a.2140	10.0	40 x 3	kN/m ²	319	141	79.7	50.9	35.2	25.8	18.2	12.8	9.32	7.0	5.39	4.24				37.60	1.94
b.1845	9.20		D (mm)	0.41	0.92	1.64	2.56	3.67	5.00	6.00	6.75	7.50	8.25	9.00	9.75					
c.1610	8.00																			

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			clear span (mm)																	
				300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100				
a.1150	5.70	20 x 5	kN/m ²	133	59.0	30.3	15.5	8.90	5.60										34.85	1.50
b.1090	5.38		D (mm)	0.82	1.84	3.00	3.75	4.50	5.25											
c.950	4.66																			
a.1540	7.06	25 x 5	kN/m ²	206	92.0	51.0	30.0	17.5	11.05	7.40	5.20	3.79							39.35	1.86
b.1360	6.68		D (mm)	0.04	0.16	0.40	0.79	4.50	5.25	6.00	6.75	7.50								
c.1190	5.87																			
a.1940	9.60	30 x 5	kN/m ²	299	132	74.5	47.5	30.3	19.1	12.8	8.98	6.56	4.92	3.79					44.10	2.24
b.1640	8.17		D (mm)	0.55	1.22	2.18	3.39	4.50	5.25	6.00	6.75	7.50	8.25	9.00						
c.1430	7.08																			
a.2200	10.0	35 x 5	kN/m ²	407	181	101	64.9	44.9	30.3	20.3	14.3	10.4	7.82	6.02	4.74				48.85	2.60
b.1915	9.56		D (mm)	0.47	1.06	1.86	2.92	4.19	5.24	6.00	6.75	7.50	8.25	9.00	9.75					
c.1670	8.30																			
a.2310	10.0	40 x 5	kN/m ²	532	236	132	84.0	58.0	43.0	30.3	21.3	15.5	11.7	8.99	7.07	5.39			53.35	2.98
b.2140	10.0		D (mm)	0.41	0.92	1.63	2.53	3.63	5.00	6.00	6.75	7.50	8.25	9.00	9.75	10.0				
c.1910	9.51																			
a.2550	10.0	45 x 5	kN/m ²	670	299	168	107	74.5	54.6	41.7	30.3	22.1	16.7	12.8	10.1	7.68			58.10	3.36
b.2335	10.0		D (mm)	0.36	0.82	1.46	2.27	3.27	4.44	5.79	6.75	7.50	8.25	9.00	9.75	10.0				
c.2110	10.0																			
a.2790	10.0	50 x 5	kN/m ²	830	409	207	132	92.0	67.5	51.5	40.6	30.3	22.8	17.6	13.8	10.5			62.60	3.72
b.2530	10.0		D (mm)	0.33	0.61	1.31	2.04	2.94	4.00	5.21	6.58	7.50	8.25	9.00	9.75	10.0				
c.2280	10.0																			
a.3260	10.0	60 x 5	kN/m ²	1199	530	299	191	132	97.3	74.3	58.6	47.3	39.0	30.4	23.9	18.2			72.10	4.48
b.2900	10.0		D (mm)	0.27	0.61	1.09	1.71	2.44	3.34	4.35	5.49	6.76	8.17	9.00	9.75	10.0				
c.2620	10.0																			

Safe uniformly distributed loads (U.D.L.) in kilonewtons per square metre on simply supported panels with deflections (δ) in mm. Based on a working stress of 180 N/mm². Loads shown in the white area have been reduced to keep the deflections within 1/200th of the clear span or 10mm whichever is the lesser. **Please contact Lionweld Kennedy sales team for Serrated Load Tables.**

- a** – Light Duty 3 kN/m² described as access limited to one person only
- b** – General Duty 5 kN/m² described as regular two way pedestrian traffic
- c** – Heavy Duty 7.5 kN/m² described as high density pedestrian traffic

Load Table Designs allow for a 1kN load over a 300mm x 300mm area in accordance with BS 4592-0:2006
Weights shown are for transverse bars at 100mm centres. For 50mm centres add 2.4kg per M²

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