

The following load tables have been devised to help specify the correct Safegrate for various types of vehicle.

Common tread contact areas have been assumed for each vehicle type to allow an easy selection.

Lionweld Kennedy can also help to specify Safegrate for alternative tread contact areas or site specific applications but in order to do so the following information is required.

- Maximum wheel load
- Maximum clear span
- Length and Breadth of the tread contact area
- Any restrictions on the depth of grating



cars

load bearing bar size	Load bearing bars at 40mm centres permissible loads (tonnes) for car wheels with contact area of 165mm x 165mm													Self Colour Weights per square metre (kgs)	Binding Bar Weight (based on 2 x 1m) (kgs)
	clear span (mm)														
mm	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100		
40 x 5	1.94	1.15	0.82	0.63	0.52	0.44	0.38	0.33	0.29	0.24	0.20	0.17	0.14	42.44	3.140
50 x 5	3.03	1.80	1.28	0.99	0.81	0.68	0.59	0.52	0.47	0.42	0.38	0.34	0.28	62.58	3.920
60 x 5	4.37	2.59	1.84	1.42	1.16	0.98	0.85	0.75	0.67	0.61	0.55	0.51	0.47	62.98	4.720
70 x 5	5.95	3.52	2.50	1.94	1.58	1.34	1.16	1.02	0.91	0.83	0.75	0.69	0.64	73.12	5.500
75 x 5	6.83	4.04	2.87	2.22	1.82	1.53	1.33	1.17	1.05	0.95	0.86	0.80	0.74	78.32	5.900
80 x 5	7.77	4.60	3.26	2.53	2.07	1.75	1.51	1.33	1.19	1.08	0.98	0.90	0.84	83.26	6.280
90 x 5	9.83	5.82	4.13	3.20	2.62	2.21	1.91	1.69	1.51	1.36	1.25	1.15	1.06	93.53	7.070
100 x 5	12.1	7.18	5.10	3.96	3.23	2.73	2.36	2.08	1.86	1.68	1.54	1.41	1.31	103.80	7.860