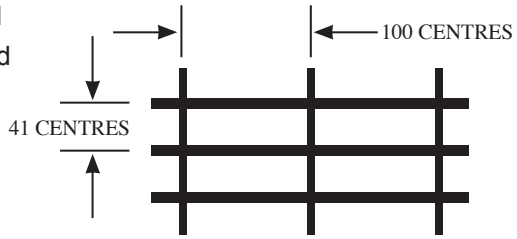
OPEN BAR GRATING AND FIXINGS

Ramsay standard open bar grating comprises of a series of parallel flat load bearding bars stood on end and equispaced with either indented round or square twisted bars resistance welded into the top surface of the load bearing bars primarily to keep them upright.

41/100 TYPE GRATING with load bearing bars at 41mm centres and Cross bars at 100mm centres.

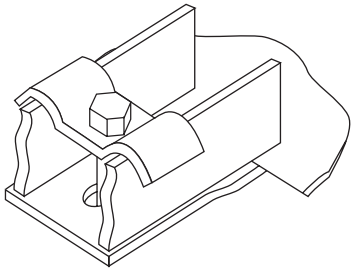


Ramsay Access Head Office
61 West High Street
Forfar, Angus
Scotland DD8 1BH
Tel: +44 (0)1307 462255
Fax: +44 (0)1307 466956
Email: ian@ramsayladders.co.uk
www.ramsayaccess.com

SAFE WORKING LOADS AND DEFLECTION TABLE

Max Clear Span for Pedestrian Loadings	d (mm)	Bearing Bar (mm)		300.00	450.00	600.00	750.00	900.00	1050.00	1200.00	1350.00	1500.00	1650.00	1800.00	1950.00	2100.00	S.C.F. U.D.L.	S.C.F. d	Approx. Finished Weight Kg/m²
a 1083.00	5.42	20x3	KN/m²	70.40	31.29	17.60	9.04	5.23											15.50
b 914.00	4.57																		
c 798.00	3.99		d (mm)	.75	1.68	2.99	3.75	4.50											
a 1354.00	6.77	25x3	KN/m²	110.00	48.89	27.50	17.60	10.21	6.43								0.85	1.08	18.48
b 1142.00	5.71																		
c 998.00	4.99		d (mm)	0.60	1.35	2.40	3.74	4.50	5.25										
a 1625.00	8.12	30x3	KN/m²	158.40	70.40	39.60	25.34	17.60	11.12	7.45	5.23						0.87	1.08	21.76
b 1370.00	6.85																		
c 1197.00	5.99		d (mm)	0.49	1.12	1.99	3.11	4.49	5.25	6.00	6.75								
a 1896.00	9.48	35x3	KN/m²	215.60	95.82	53.90	34.50	23.96	17.60	11.82	8.31	6.05					0.89	1.05	25.11
b 1599.00	7.99																		
c 1397.00	6.98		d (mm)	0.43	0.96	1.71	2.67	3.85	5.24	6.00	6.75	7.50							
a 2124.00	10.00	40x3	KN/m²	281.60	125.16	70.40	45.06	31.29	22.99	17.60	12.40	9.04	6.79	5.23			0.90	1.05	28.39
b 1827.00	9.14																		
c 1596.00	7.98		d (mm)	0.37	0.84	1.50	2.34	3.37	4.58	5.98	6.75	7.50	8.25	9.00					
a 1284.00	6.42	20x5	KN/m²	117.33	52.15	29.33	15.06	8.72	5.49								0.81	1.11	22.95
b 1083.00	5.42																		
c 946.00	4.73		d (mm)	0.75	1.68	2.99	3.75	4.50	6.25										
a 1605.00	8.03	25x5	KN/m²	183.33	81.48	45.83	29.33	17.02	10.72	7.18	5.04						0.85	1.11	28.65
b 1354.00	6.77																		
c 1183.00	5.91		d (mm)	0.60	1.35	2.39	3.74	4.50	5.25	6.00	6.75								
a 1926.00	9.60	30x5	KN/m²	264.00	117.33	66.00	42.24	29.33	18.53	12.41	8.72	8.35					0.87	1.06	33.49
b 1625.00	8.12																		
c 1419.00	7.10		d (mm)	0.50	1.12	1.99	3.12	4.49	5.25	6.00	6.75	7.50							
a 2183.00	10.00	35x5	KN/m²	359.33	159.70	89.83	57.49	39.93	29.33	19.71	18.84	10.09	7.58	5.84			0.89	1.05	38.70
b 1896.00	9.48																		
c 1656.00	8.28		d (mm)	0.43	0.96	1.71	2.67	3.85	5.24	8.00	6.75	7.50	8.25	9.00					
a 2413.00	10.00	40x5	KN/m²	469.33	208.59	117.33	75.09	52.15	38.31	29.33	20.66	15.06	11.32	8.72	6.86	5.23	0.90	1.05	43.91
b 2124.00	10.00																		
c 1893.00	9.46		d (mm)	0.37	.84	1.50	2.34	3.37	4.58	5.98	6.75	7.50	8.25	9.00	9.75	10.00			
a 2852.00	10.00	50x5	KN/m²	733.33	325.93	183.33	117.33	81.48	59.86	45.83	36.21	29.33	22.10	17.02	19.39	10.20	0.92	1.03	54.32
b 2510.00	10.00																		
c 2268.00	10.00		d (mm)	0.30	0.67	1.20	1.87	2.69	3.67	4.79	6.06	7.48	8.25	9.00	9.75	10.00			

S.C.F. is the serrated conversion factor by which the safe loads and deflections must be multiplied to obtain those for the equivalent overall load bearing bar depth with serrated top surface.

Saddle Clip for Grating

Pressed steel top saddle 8mm diameter bolt 10mm longer than grating depth. Clip can fit over two bars and so secure adjoining panels together. For grating 40mm deep and over add an extra 10mm to bolt length.