

R40 – Safe load and deflection table.

Grating Type	Cross Bar Pitch (mm)	Mass kg/m ²	Nom. load bar size (mm)	U/D	Spans (mm)														Serrated Edge Conversion Factor		
					300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2400		2700	
R40A - 203	100	14.6	20X3	U	76.8	34.05	19.23	12.13	5.81												NOT REC
R40B - 203	50	17.6		D	0.8	1.81	3.22	5	5												NOT REC
R40A - 205	100	22.5	20X5	U	127.12	56.46	31.75	20.23	9.72	5.23											NOT REC
R40B - 205	50	22.5		D	0.8	1.81	3.22	5	5	5											NOT REC
R40A - 253	100	17.5	25X3	U	119.1	52.94	29.9	19.04	11.3	6.14											0.876
R40B - 253	50	20.5		D	0.64	1.45	2.57	4.02	5	5											0.876
R40A - 255	100	27.4	25X5	U	198.52	88.25	49.63	31.75	19.03	10.26	6.01										0.876
R40B - 255	50	30.4		D	0.64	1.45	2.57	4.02	5	5	5										0.876
R40A - 323	100	21.7	32X3	U	195.11	86.75	48.81	31.22	21.66	12.93	7.56	4.71									0.902
R40B - 323	50	24.7		D	0.5	1.13	2.01	3.14	4.52	5	5	5									0.902
R40A - 325	100	34.2	32X5	U	325.1	144.91	81.33	52.03	36.15	21.53	12.63	7.87	5.15								0.902
R40B - 325	50	37.2		D	0.5	1.13	2.01	3.14	4.52	5	5	5	5								0.902
R40A - 403	100	26.4	40X3	U	305	135.3	76.25	48.81	33.87	24.6	14.82	9.22	6.04	4.12							0.922
R40B - 403	50	29.4		D	0.4	0.9	1.61	2.51	3.62	4.93	5	5	5	5							0.922
R40A - 405	100	42.1	40X5	U	508.3	225.8	127.1	81.34	56.48	41.5	24.5	15.39	9.61	6.9	4.85						0.922
R40B - 405	50	45.1		D	0.4	0.9	1.61	2.51	3.62	4.93	5	5	5	5	5						0.922
R40A - 455	100	47	45X5	U	643.3	285.8	160.7	102.8	71.4	52.52	35.14	21.92	14.38	9.81	6.93	5.03					0.93
R40B - 455	50	50		D	0.36	0.8	1.43	2.23	3.2	4.38	5	5	5	5	5	5					0.93
R40A - 505	100	51.9	50X5	U	794.4	353	198.4	127.2	88.26	64.84	48.18	30.06	19.74	13.47	9.51	6.8	5.12				0.937
R40B - 505	50	54.9		D	0.32	0.72	1.29	2.01	2.9	3.94	5	5	5	5	5	5	5				0.937
R40A - 555	100	56.8	55X5	U	961.3	427.2	240.1	153.6	106.7	78.45	60.05	40.07	22.7	17.95	12.65	9.1	6.82	4			0.943
R40B - 555	50	59.8		D	0.29	0.66	1.17	1.83	2.63	3.58	4.68	5	5	5	5	5	5	5			0.943
R40A - 655	100	66.6	65X5	U	1342	596.5	335.4	214.6	149.2	109.4	83.92	66.15	43.35	29.61	20.92	15.17	11.27	6.2	4.12		0.951
R40B - 655	50	69.6		D	0.25	0.56	0.99	1.55	2.23	3.03	3.96	5	5	5	5	5	5	5	5		0.951

U = Safe uniformly distributed load in kPa (or kN/m²)
 D = Deflection (mm) at mid-span caused by U
 Spans shown have maximum 5mm deflection, which is limiting deflection for pedestrian comfort.

Note: for galvanised fabricated grating add 12% to mass