

# R30 – Safe load and deflection table.

Grating Type	Cross Bar Pitch (mm)	Mass kg/m <sup>2</sup>	Nom. load bar size (mm)		Spans (mm)															Serrated Edge Conversion Factor	
					300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2400	2700		
<b>R30A - 203</b>	100	18.8	20X3	U	101	46	25.4	15.96	7.69	4.13											NOT REC
<b>R30B - 203</b>	50	21.8		D	0.8	1.8	3.22	5	5	5											NOT REC
<b>R30A - 205</b>	100	29.5	20X5	U	169.3	75.31	42.35	26.94	13	7	4.09										NOT REC
<b>R30B - 205</b>	50	32.5		D	0.8	1.8	3.22	5	5	5	5										0.876
<b>R30A - 253</b>	100	22.8	25X3	U	158.7	70.6	39.74	25.44	15.26	8.24	4.84										0.876
<b>R30B - 253</b>	50	25.8		D	0.64	1.45	2.57	4.02	5	5	5										0.876
<b>R30A - 255</b>	100	36.2	25X5	U	264.6	117.5	66.4	42.36	25.3	13.7	8.02	5.02									0.902
<b>R30B - 255</b>	50	39.2		D	0.64	1.45	2.57	4.02	5	5	5	5									0.902
<b>R30A - 323</b>	100	28.4	32X3	U	260.4	115.6	65.09	41.64	28.93	17.24	10.12	6.32	4.13								0.922
<b>R30B - 323</b>	50	31.4		D	0.5	1.13	2.01	3.14	4.52	5	5	5	5								0.922
<b>R30A - 325</b>	100	45.5	32X5	U	433.9	192.7	108.3	69.43	48.22	28.74	16.85	10.51	6.92	4.72							0.93
<b>R30B - 325</b>	50	48.5		D	0.5	1.13	2.01	3.14	4.52	5	5	5	5	5							0.93
<b>R30A - 403</b>	100	34.9	40X3	U	406.6	180.6	101.6	65.07	45.1	33.1	19.72	12.33	8.07	5.51							0.937
<b>R30B - 403</b>	50	37.9		D	0.4	0.9	1.61	2.51	3.62	4.93	5	5	5	5							0.943
<b>R30A - 405</b>	100	56.2	40X5	U	677.8	301.2	169.3	108.3	75.33	55.33	32.88	20.55	13.48	9.2	6.4	4.71					0.951
<b>R30B - 405</b>	50	59.2		D	0.4	0.9	1.61	2.51	3.62	4.93	5	5	5	5	5	5					0.951
<b>R30A - 455</b>	100	62.9	45X5	U	858	381.2	214.4	137.1	95.2	70.03	46.86	29.25	19.2	13.1	9.24	6.73	4.98				N/A
<b>R30B - 455</b>	50	65.9		D	0.36	0.8	1.43	2.23	3.22	4.38	5	5	5	5	5	5	5				N/A
<b>R30A - 505</b>	100	69.6	50X5	U	1059	470.6	264.7	169.3	117.6	86.46	64.26	40.12	26.34	17.99	12.6	9.21	6.84	4.02			N/A
<b>R30B - 505</b>	50	72.6		D	0.32	0.72	1.29	2.01	2.9	3.94	5	5	5	5	5	5	5	5			N/A
<b>R30A - 555</b>	100	76.2	55X5	U	1281	569.5	320.5	205	142.3	104.5	80.12	53.44	35.05	23.94	16.8	12.26	9.11	5.33			N/A
<b>R30B - 555</b>	50	79.2		D	0.29	0.66	1.17	1.83	2.63	3.58	4.68	5	5	5	5	5	5	5			N/A
<b>R30A - 655</b>	100	89.6	65X5	U	1790	795.6	447.4	286.3	198.8	146.1	111.7	88.21	57.83	40.74	27.9	20.24	15.04	8.81	5.51		N/A
<b>R30B - 655</b>	50	92.9		D	0.25	0.56	0.99	1.55	2.23	3.03	3.96	5	5	5	5	5	5	5	5		N/A
<b>R30A - 756</b>	100	122.9	75X6	U	2750	1200	650	400	300	225	150	110	75	60	51.3	37.32	27.75	16.26	10.15		N/A
				D	0.21	0.46	0.78	1.17	1.82	2.53	2.88	3.38	3.52	4.12	5	5	5	5	5		N/A

U = Safe uniformly distributed load in kPa (or kN/m<sup>2</sup>)  
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