

AASHTO WHEEL LOAD SPAN TABLE

SIMPLE BEAM MOMENT

	TYPE	SIZE OF MAIN BARS	Weight lbs per Sq. Ft.	I in ⁴ per Foot	Sec. Modulus In ³ per Foot		Maximum Allowable Grating Span in Inches		
					ST	SB	H10	H15	H20
					ASTM A-36 STEEL				
	RW-12	2-1/2 x 3/16	15.11	1.1718	0.9374	0.9374	14.01	15.51	17.33
	RW-12A	2-1/2 x 1/4	17.23	1.5243	1.2194	1.2194	16.82	17.99	19.82
	RW-12B	2-1/2 x 5/16	19.25	1.8601	1.4880	1.4880	19.55	20.38	22.04
	RW-12C	2-1/2 x 3/8	21.18	2.1802	1.7441	1.7441	22.19	22.69	24.18
	RW-14	3 x 3/16	16.64	2.0250	1.3502	1.3502	17.98	19.04	20.82
	RW-14A	3 x 1/4	19.23	2.6341	1.7561	1.7561	22.03	22.60	24.14
	RW-14B	3 x 5/16	21.68	3.2142	2.1431	2.1431	25.95	26.05	27.34
	RW-14C	3 x 3/8	24.03	3.7674	2.5116	2.5116	29.75	29.37	30.43
	RW-16A	3-1/2 x 1/4	21.22	4.1829	2.3902	2.3902	28.17	28.06	29.25
	RW-16B	3-1/2 x 5/16	24.12	5.1041	2.9166	2.9166	33.51	32.74	33.60
	RW-16C	3-1/2 x 3/8	26.88	5.9825	3.4185	3.4185	38.69	37.27	37.80
	RW-18A	4 x 1/4	23.21	6.2439	3.1221	3.1221	35.27	34.35	35.14
	RW-18B	4 x 5/16	26.55	7.6190	3.8094	3.8094	42.24	40.47	40.83
	RW-18C	4 x 3/8	29.73	8.9302	4.4651	4.4651	49.01	43.38	46.32
	RW-20A	4-1/2 x 1/4	25.2	8.8902	3.9515	3.9515	43.31	41.48	41.82
	RW-20B	4-1/2 x 5/16	28.98	10.8482	4.8215	4.8215	52.13	49.22	49.02
	RW-20C	4-1/2 x 3/8	32.58	12.7151	5.6511	5.6511	60.70	56.71	55.96
	RW-22A	5 x 1/4	27.19	12.1951	4.8782	4.8782	52.30	49.45	49.28
	RW-22B	5 x 5/16	31.41	14.8809	5.9525	5.9525	63.19	59.01	58.17
	RW-22C	5 x 3/8	35.42	17.4418	6.9767	6.9767	73.76	68.25	66.74
ASTM A-588 STEEL									
	RW-12	2-1/2 x 3/16	15.11	1.1718	0.9374	0.9374	17.17	18.32	20.14
	RW-12A	2-1/2 x 1/4	17.23	1.5243	1.2194	1.2194	20.96	21.66	23.26
	RW-12B	2-1/2 x 5/16	19.25	1.8601	1.4880	1.4880	24.64	24.88	26.26
	RW-12C	2-1/2 x 3/8	21.18	2.1802	1.7441	1.7441	28.21	28.00	29.15
	RW-14	3 x 3/16	16.64	2.0250	1.3502	1.3502	22.53	23.08	24.61
	RW-14A	3 x 1/4	19.23	2.6341	1.7561	1.7561	27.99	27.89	29.09
	RW-14B	3 x 5/16	21.68	3.2142	2.1431	2.1431	33.28	32.54	33.41
	RW-14C	3 x 3/8	24.03	3.7674	2.5116	2.5116	38.42	37.02	37.58
	RW-16A	3-1/2 x 1/4	21.22	4.1829	2.3902	2.3902	36.28	35.25	35.98
	RW-16B	3-1/2 x 5/16	24.12	5.1041	2.9166	2.9166	43.49	41.57	41.86
	RW-16C	3-1/2 x 3/8	26.88	5.9825	3.4185	3.4185	50.48	47.68	47.53
	RW-18A	4 x 1/4	23.21	6.2439	3.1221	3.1221	45.86	43.75	43.94
	RW-18B	4 x 5/16	26.55	7.6190	3.8094	3.8094	55.27	52.00	51.62
	RW-18C	4 x 3/8	29.73	8.9302	4.4651	4.4651	64.41	59.99	59.03
	RW-20A	4-1/2 x 1/4	25.2	8.8902	3.9515	3.9515	56.72	53.38	52.96
	RW-20B	4-1/2 x 5/16	28.98	10.8482	4.8215	4.8215	68.63	63.83	62.68
	RW-20C	4-1/2 x 3/8	32.58	12.7151	5.6511	5.6511	80.19	79.93	72.05
	RW-22A	5 x 1/4	27.19	12.1951	4.8782	4.8782	68.85	64.14	63.03
	RW-22B	5 x 5/16	31.41	14.8809	5.9525	5.9525	83.55	77.04	75.03
	RW-22C	5 x 3/8	35.42	17.4418	6.9767	6.9767	97.83	89.51	86.60