

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	RWL-16A	3-1/2 x 1/4	17.16	2.8702	1.9796	1.4000	23.17	22.60	23.57
	RWL-16B	3-1/2 x 5/16	18.68	3.3908	2.2687	1.6908	27.08	25.83	26.46
	RWL-16C	3-1/2 x 3/8	20.18	3.8891	2.5458	1.9719	30.91	28.98	29.27
	RWL-18A	4 x 1/4	18.15	4.2849	2.5827	1.8304	28.75	27.25	27.74
	RWL-18B	4 x 5/16	19.91	5.0605	2.9567	2.2113	33.88	31.47	31.52
	RWL-18C	4 x 3/8	21.63	5.8039	3.3165	2.5795	38.89	35.60	35.21
	RWL-20A	4-1/2 x 1/4	19.15	6.0901	3.2483	2.3200	35.11	32.53	32.49
	RWL-20B	4-1/2 x 5/16	21.14	7.1931	3.7189	2.8034	41.61	37.90	37.29
	RWL-20C	4-1/2 x 3/8	23.09	8.2464	4.1707	3.2687	47.95	43.12	41.95
	RWL-22A	5 x 1/4	20.14	8.3302	3.9742	2.8686	42.23	38.45	37.81
	RWL-22B	5 x 5/16	22.37	9.8339	4.5502	3.4641	50.24	45.06	43.72
	RWL-22C	5 x 3/8	24.55	11.2766	5.1064	4.0393	58.08	51.51	49.48
ASTM A-588 STEEL	RWL-16A	3-1/2 x 1/4	17.16	2.8702	1.9796	1.4000	29.53	27.89	28.32
	RWL-16B	3-1/2 x 5/16	18.68	3.3908	2.2687	1.6908	34.81	32.25	32.22
	RWL-16C	3-1/2 x 3/8	20.18	3.8891	2.5458	1.9719	39.98	36.15	36.02
	RWL-18A	4 x 1/4	18.15	4.2849	2.5827	1.8304	37.07	34.16	33.95
	RWL-18B	4 x 5/16	19.91	5.0605	2.9567	2.2113	43.98	39.87	39.06
	RWL-18C	4 x 3/8	21.63	5.8039	3.3165	2.5795	50.76	45.44	44.04
	RWL-20A	4-1/2 x 1/4	19.15	6.0901	3.2483	2.3200	45.65	41.29	40.36
	RWL-20B	4-1/2 x 5/16	21.14	7.1931	3.7189	2.8034	54.43	48.54	46.84
	RWL-20C	4-1/2 x 3/8	23.09	8.2464	4.1707	3.2687	62.98	55.58	53.13
	RWL-22A	5 x 1/4	20.14	8.3302	3.9742	2.8686	55.26	49.28	47.54
	RWL-22B	5 x 5/16	22.37	9.8339	4.5502	3.4641	66.07	58.21	55.52
	RWL-22C	5 x 3/8	24.55	11.2766	5.1064	4.0393	76.65	66.92	63.30