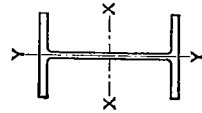


ROLLED STEEL SECTIONS

WF SECTIONS

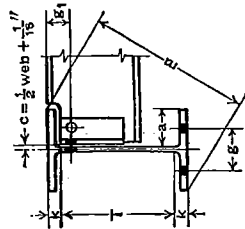
PROPERTIES FOR DESIGNING



Nominal Size	Weight per Foot	Area of Section	Depth of Section	Flange			AXIS X-X			AXIS Y-Y		
				Width	Thick-ness	Web Thick-ness	I	S	r	I	S	r
In.	Lb.	In. ²	In.	In.	In.	In.	In. ⁴	In. ³	In.	In. ⁴	In. ³	In.
10 x 10	136	40.03	11.88	10.575	1.498	.915	917.2	154.4	4.79	295.9	56.0	2.72
	124	36.46	11.62	10.505	1.368	.845	813.1	139.9	4.72	264.8	50.4	2.69
	112	32.92	11.38	10.415	1.248	.755	718.7	126.3	4.67	235.4	45.2	2.67
	100	29.43	11.12	10.345	1.118	.685	625.0	112.4	4.61	206.6	39.9	2.65
	89	26.19	10.88	10.275	.998	.615	542.4	99.7	4.55	180.6	35.2	2.63
10 x 8	77	22.67	10.62	10.195	.868	.535	457.2	86.1	4.49	153.4	30.1	2.60
	72	21.18	10.50	10.170	.808	.510	420.7	80.1	4.46	141.8	27.9	2.59
	66	19.41	10.38	10.117	.748	.457	382.5	73.7	4.44	129.2	25.5	2.58
	60	17.66	10.25	10.075	.683	.415	343.7	67.1	4.41	116.5	23.1	2.57
	54	15.88	10.12	10.028	.618	.368	305.7	60.4	4.39	103.9	20.7	2.56
10 x 5 1/4	49	14.40	10.00	10.000	.558	.340	272.9	54.6	4.35	93.0	18.6	2.54
	45	13.24	10.12	8.022	.618	.350	248.6	49.1	4.33	53.2	13.3	2.00
	41	12.06	10.00	8.000	.558	.328	222.4	44.5	4.29	47.7	11.9	1.99
	37	10.88	9.88	7.978	.498	.306	196.9	39.9	4.25	42.2	10.6	1.97
	33	9.71	9.75	7.964	.433	.292	170.9	35.0	4.20	36.5	9.2	1.94
10 x 5 3/4	29	8.53	10.22	5.799	.500	.289	157.3	30.8	4.29	15.2	5.2	1.34
	26	7.65	10.12	5.769	.450	.259	139.7	27.6	4.27	13.4	4.6	1.32
	23	6.77	10.00	5.750	.390	.240	120.6	24.1	4.22	11.3	3.9	1.29
	21	6.19	9.90	5.750	.340	.240	106.3	21.5	4.14	9.7	3.4	1.25
8 x 8	67	19.70	9.00	8.287	.933	.575	271.8	60.4	3.71	88.6	21.4	2.12
	58	17.06	8.75	8.222	.808	.510	227.3	52.0	3.65	74.9	18.2	2.10
	48	14.11	8.50	8.117	.683	.405	183.7	43.2	3.61	60.9	15.0	2.08
	40	11.76	8.25	8.077	.558	.365	146.3	35.5	3.53	49.0	12.1	2.04
	35	10.30	8.12	8.027	.493	.315	126.5	31.1	3.50	42.5	10.6	2.03
8 x 6 1/2	33	9.70	8.06	8.012	.463	.300	117.9	29.3	3.49	39.7	9.9	2.02
	31	9.12	8.00	8.000	.433	.288	109.7	27.4	3.47	37.0	9.2	2.01
	27	7.93	8.03	6.528	.448	.273	94.1	23.4	3.44	20.8	6.4	1.62
	24	7.06	7.93	6.500	.398	.245	82.5	20.8	3.42	18.2	5.6	1.61
	21	6.18	8.19	5.272	.403	.252	73.8	18.0	3.45	9.13	3.5	1.22
8 x 5 1/4	19	5.59	8.09	5.264	.353	.244	64.7	16.0	3.40	7.87	3.0	1.19
	17	5.00	8.00	5.250	.308	.230	56.4	14.1	3.36	6.72	2.6	1.16

See page 10 for method of designation.

REGULAR SERIES

WF SECTIONS
DIMENSIONS FOR DETAILING

Nominal Size	Weight per Foot	Depth of Section	Flange		Web		Distance						Usual Gage g
			Width	Thick- ness	Thick- ness	Half Thick- ness	a	T	k	m	g ₁	c	
In.	Lb.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
10 x 10	136	11 7/8	10 5/8	1 1/2	15/16	1/2	4 7/8	7 7/8	2	16	3 3/4	9/16	5 1/2
	124	11 5/8	10 1/2	1 3/8	7/8	7/8	4 7/8	7 7/8	1 7/8	15 3/4	3 3/4	1/2	5 1/2
	112	11 3/8	10 3/8	1 1/4	3/4	3/4	4 7/8	7 7/8	1 3/4	15 1/2	3	7/16	5 1/2
	100	11 1/8	10 3/8	1 1/8	11/16	1/2	4 7/8	7 7/8	1 5/8	15 1/4	3	7/16	5 1/2
	89	10 7/8	10 3/4	1	5/8	5/8	4 7/8	7 7/8	1 1/2	15	2 3/4	3/8	5 1/2
10 x 8	77	10 5/8	10 3/4	7/8	9/16	5/8	4 7/8	7 7/8	1 3/8	14 3/4	2 3/4	3/8	5 1/2
	72	10 1/2	10 3/8	13/16	1/2	1/4	4 7/8	7 7/8	1 5/8	14 5/8	2 3/4	5/16	5 1/2
	66	10 3/8	10 3/8	3/4	7/8	1/4	4 7/8	7 7/8	1 1/4	14 1/2	2 1/2	9/16	5 1/2
	60	10 1/4	10 3/8	11/16	7/8	1/4	4 7/8	7 7/8	1 3/8	14 3/8	2 1/2	5/16	5 1/2
	54	10 1/8	10	5/8	3/8	3/8	4 7/8	7 7/8	1 3/8	14 1/4	2 1/2	1/4	5 1/2
10 x 5 3/4	49	10	10	9/16	3/8	3/8	4 7/8	7 7/8	1 1/8	14 1/8	2 1/2	1/4	5 1/2
	45	10 1/8	8	5/8	3/8	3/8	3 7/8	7 7/8	1 1/8	13	2 1/2	1/4	5 1/2
	41	10	8	9/16	5/8	3/8	3 7/8	7 7/8	1 1/8	12 1/2	2 1/2	1/4	5 1/2
	37	9 7/8	8	1/2	5/8	3/8	3 7/8	7 7/8	1	12 3/4	2 1/4	1/4	5 1/2
	33	9 3/4	8	7/16	5/16	3/8	3 7/8	7 7/8	15/16	12 5/8	2 1/4	1/4	5 1/2
10 x 5 1/4	29	10 1/4	5 3/4	1/2	5/8	3/8	2 3/4	8 1/2	7/8	11 3/4	2 1/4	1/4	2 3/4
	26	10 1/8	5 3/4	7/16	1/4	1/8	2 3/4	8 1/2	13/16	11 3/4	2 1/4	3/16	2 3/4
	23	10	5 3/4	3/8	1/4	1/8	2 3/4	8 1/2	3/4	11 5/8	2 1/4	3/16	2 3/4
	21	9 7/8	5 3/4	5/16	1/4	1/8	2 3/4	8 1/2	11/16	11 1/2	2	3/16	2 3/4
	8 x 8	67	9	8 1/4	15/16	9/16	5/8	3 7/8	6 3/8	1 5/8	12 1/4	2 3/4	3/8
58		8 3/4	8 1/4	1 1/8	1/2	1/4	3 7/8	6 3/8	1 3/8	12	2 1/2	5/16	5 1/2
48		8 1/2	8 1/8	11/16	7/16	3/16	3 7/8	6 3/8	1 1/8	11 7/8	2 1/2	1/4	5 1/2
40		8 1/4	8 1/8	9/16	3/8	3/16	3 7/8	6 3/8	15/16	11 5/8	2 1/4	1/4	5 1/2
35		8 1/8	8	1/2	5/16	3/16	3 7/8	6 3/8	7/8	11 1/2	2 1/4	1/4	5 1/2
8 x 6 1/2	33	8	8	7/16	5/16	3/16	3 7/8	6 3/8	7/8	11 3/8	2 1/4	1/4	5 1/2
	31	8	8	7/16	5/16	3/16	3 7/8	6 3/8	15/16	11 3/8	2 1/4	1/4	5 1/2
	27	8	6 1/2	7/16	3/16	1/8	3 7/8	6 3/8	7/8	10 3/8	2 1/4	3/16	3 1/2
	24	7 7/8	6 1/2	9/16	1/4	1/8	3 7/8	6 3/8	15/16	10 1/4	2 1/4	3/16	3 1/2
	8 x 5 1/4	21	8 1/4	5 1/4	3/8	1/4	1/8	2 1/2	6 3/4	3/4	9 3/4	2 1/4	3/16
19		8 1/8	5 1/4	3/8	1/4	1/8	2 1/2	6 3/4	11/16	9 5/8	2 1/4	3/16	2 3/4
17		8	5 1/4	5/16	1/4	1/8	2 1/2	6 3/4	5/8	9 5/8	2 1/4	3/16	2 3/4

Gage g₁ is based on k + 1 1/4". to nearest 1/4".