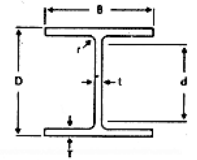


LIGHT BEAMS AND JOISTS



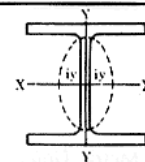
Imperial units

Section size	Unit weight		Section depth		Flange width		Web thickness		Flange thickness		Corner radius		Section area	
	M		D		B		t		T		r		A	
	lb/ft	kg/m	in	mm	in	mm	in	mm	in	mm	in	mm	in ²	cm ²
6 x 4 (J)	8.5	12.65	5.83	148	3.94	100	0.17	4.32	0.194	4.93	0.25	6.35	2.50	16.1
6 x 4 (L)	12	17.86	6.00	152	4.00	102	0.23	5.84	0.279	7.09	0.25	6.35	3.53	22.8
	16	23.81	6.25	159	4.03	102	0.26	6.60	0.404	10.26	0.25	6.35	4.72	30.5
8 x 4 (J)	10	14.88	7.90	201	3.94	100	0.17	4.32	0.204	5.18	0.30	7.62	2.95	19.0
8 x 4 (L)	13	19.35	8.00	203	4.00	102	0.23	5.84	0.254	6.45	0.30	7.62	3.83	24.7
	15	22.32	8.12	206	4.015	102	0.245	6.22	0.314	7.98	0.30	7.62	4.43	28.6
10 x 4 (J)	11.5	17.11	9.87	251	3.95	100	0.18	4.57	0.204	5.18	0.30	7.62	3.39	21.9
10 x 4 (L)	15	22.32	10.00	254	4.00	102	0.23	5.84	0.269	6.83	0.30	7.62	4.40	28.4
	17	25.30	10.12	257	4.01	102	0.24	6.10	0.329	8.36	0.30	7.62	4.98	32.1
	19	28.28	10.25	260	4.02	102	0.25	6.35	0.394	10.01	0.30	7.62	5.61	36.2
12 x 4 (J)	14	20.83	11.91	303	3.97	101	0.20	5.08	0.224	5.69	0.30	7.62	4.14	26.7
12 x 4 (L)	16.5	24.55	12.00	305	4.00	102	0.23	5.84	0.269	6.83	0.30	7.62	4.86	31.4
	19	28.28	12.16	309	4.01	102	0.24	6.10	0.349	8.86	0.30	7.62	5.62	36.3
	22	32.74	12.31	313	4.03	102	0.26	6.60	0.424	10.77	0.30	7.62	6.47	41.7
14 x 4 (L)	17.2 *	25.60 *	14.00 *	356 *	4.00 *	102 *	0.21 *	5.33 *	0.272	6.91 *	0.43 *	10.9 *	5.05 *	32.6 *
14 x 5 (L)	22	32.74	13.72	348	5.00	127	0.23	5.84	0.335	8.51	0.43	10.9	6.47	41.7
	26	38.69	13.89	353	5.025	128	0.255	6.48	0.418	10.62	0.43	10.9	7.65	49.4
16 x 5½ (L)	26	38.69	15.65	398	5.50	140	0.25	6.35	0.345	8.76	0.43	10.9	7.65	49.4
	31	46.13	15.84	402	5.525	140	0.275	6.99	0.442	11.23	0.43	10.9	9.12	58.8

L = Light beams, J = Joists

Note:

Sizes indicated by an asterisk (*) are not included in regular rolling schedules.



Section Size	Moment of inertia				Radius of gyration				Modulus of section			
	Ix		Iy		ix		iy		Zx		Zy	
	in ⁴	cm ⁴	in ⁴	cm ⁴	in	cm	in	cm	in ³	cm ³	in ³	cm ³
6 x 4 (J)	14.8	616	1.89	78.66	2.43	6.17	0.87	2.21	5.07	83.1	0.96	15.73
6 x 4 (L)	21.7	903.3	2.89	120.3	2.48	6.30	0.90	2.29	7.24	118.7	1.44	23.60
	31.7	1,320	4.32	179.8	2.59	6.58	0.96	2.44	10.1	165.5	2.14	35.07
8 x 4 (J)	30.8	1,282	1.99	82.82	3.23	8.20	0.82	2.08	7.79	127.7	1.01	16.55
8 x 4 (L)	39.5	1,644	2.62	109.1	3.21	8.15	0.83	2.11	9.88	161.9	1.31	21.47
	48.0	1,994	3.30	137.4	3.29	8.36	0.86	2.18	11.8	193.4	1.65	27.04
10 x 4 (J)	51.9	2,160	2.01	83.66	3.92	9.96	0.77	1.96	10.5	172.1	1.02	16.72
10 x 4 (L)	68.8	2,864	2.79	116.1	3.95	10.03	0.80	2.03	13.8	226.2	1.39	22.78
	81.8	3,405	3.45	143.6	4.05	10.29	0.83	2.11	16.2	265.5	1.72	28.19
	96.2	4,005	4.19	174.4	4.14	10.52	0.86	2.18	18.8	308.1	2.08	34.09
12 x 4 (J)	88.2	3,671	2.25	93.65	4.61	11.71	0.74	1.88	14.8	242.5	1.13	18.52
12 x 4 (L)	105.3	4,383	2.79	116.1	4.65	11.81	0.76	1.93	17.5	286.8	1.39	22.78
	130.1	5,416	3.67	152.8	4.81	12.22	0.81	2.06	21.4	350.7	1.83	29.99
	155.7	6,482	4.55	189.4	4.91	12.47	0.84	2.13	25.3	414.7	2.26	37.04
14 x 4 (L)	147.3*	6,131*	2.65 *	110.3 *	5.40 *	13.72 *	0.72 *	1.83*	21.0 *	344.2*	1.32 *	21.63 *
14 x 5 (L)	197.4	8,212	6.40	266.4	5.52	14.02	0.99	2.51	28.8	472.0	2.56	41.96
	242.6	10,100	8.26	343.8	5.63	14.30	1.04	2.64	34.9	572.0	3.29	53.92
16 x 5½ (L)	298.1	12,410	8.71	362.5	6.24	15.85	1.07	2.72	38.1	624.5	3.17	51.96
	372.5	15,500	11.57	481.5	6.39	16.23	1.13	2.87	47.0	770.3	4.19	68.67