



TABLE 4 : Rolled steel - I BEAMS (Exeract from GOST 8239-56\*)

SECTION No.	Weight per linear metre	Dimensions						sectional area	data for axes						
		h	b	d	t	R	r		X-X				Y-Y		
		mm.							J <sub>x</sub>	W <sub>x</sub>	I <sub>x</sub>	S <sub>x</sub>	J <sub>y</sub>	W <sub>y</sub>	I <sub>y</sub>
		Kg							cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>3</sup>	cm <sup>4</sup>	cm <sup>3</sup>
10	9.46	100	55	4.5	7.2	7	2.5	12	198	39.7	4.06	23	17.9	6.49	1.22
12	11.5	120	64	4.8	7.3	7.5	3	14.7	350	58.4	4.88	33.7	27.9	8.72	1.38
14	13.7	140	73	4.9	7.5	8	3	17.4	572	81.7	5.73	46.8	41.9	11.5	1.55
16	15.9	160	81	5	7.8	8.5	3.5	20.2	873	109	6.57	62.3	58.6	14.5	1.7
18	18.4	180	90	5.1	8.1	9	3.5	23.4	1290	143	7.42	81.4	82.6	18.4	1.88
18a	19.9	180	100	5.1	8.3	9	3.5	25.4	1430	159	7.51	89.8	114	22.8	2.12
20	21	200	100	5.2	8.4	9.5	4	26.8	1840	184	8.28	104	115	23.1	2.07
20a	22.7	200	110	5.2	8.6	9.5	4	28.9	2030	203	8.37	114	155	28.2	2.32
22	24	220	110	5.4	8.7	10	4	30.6	2550	232	9.13	131	157	28.6	2.27
22a	25.8	220	120	5.4	8.9	10	4	32.8	2790	254	9.22	143	206	34.3	2.5
24	27.3	240	115	5.6	9.5	10.5	4	34.8	3460	289	9.97	163	198	34.5	2.37
24a	29.4	240	125	5.6	9.8	10.5	4	37.5	3800	317	10.1	178	260	41.6	2.63
27	31.5	270	125	6	9.8	11	4.5	40.2	5010	371	11.2	210	260	41.5	2.54
27a	33.9	270	135	6	10.2	11	4.5	43.2	5500	407	11.3	229	337	50	2.8
30	36.5	300	135	6.5	10.2	12	5	46.5	7080	472	12.3	268	337	49.9	2.69
30a	39.2	300	145	6.5	10.7	12	5	49.9	7780	518	12.5	292	436	60.1	2.95
33	42.2	330	140	7	11.2	13	5	53.8	9840	597	13.5	339	419	59.9	2.79
36	48.6	360	145	7.5	12.3	14	6	61.9	13380	743	14.7	423	516	71.1	2.89
40	56.1	400	155	8	13	15	6	71.4	18930	947	16.3	540	666	85.9	3.05
45	65.2	450	160	8.6	14.2	16	7	83	27450	1220	18.2	699	807	101	3.12
50	76.8	500	170	9.5	15.2	17	7	97.8	39290	1570	20	905	1040	122	3.26
55	80.8	550	180	10.3	16.5	18	7	114	55150	2000	22	1150	1350	150	3.44
60	104	600	190	11.1	17.8	20	8	132	75450	2510	23.9	1450	1720	181	3.6
65	120	650	200	12	19.2	22	9	153	101400	3120	25.8	1800	2170	217	3.77
70	138	700	210	13	20.8	24	10	176	134600	3840	27.7	2230	2730	260	3.94
70a	158	700	210	15	24	24	10	202	152700	4360	27.5	2550	3240	309	4.01
70b	184	700	210	17.5	28.2	24	10	234	175370	5010	27.4	2940	3910	373	4.09