



TABLE 4 : Rolled steel shapes - Channels (Extract from GOST 8240-56\*)

**h**=depth of channel  
**b**=width of flange  
**d**=thickness of web  
**t**=mean thickness of flange  
**R**=radius of fillet  
**I**=moment of inertia  
**W**=section modulus  
**r**=radius of gyration  
**S**=statical moment of half-section  
**Zo**=distance from axis y-y to outer side of web

SECTION No.	Weight per linear metre	Dimensions					sectional area A	Reference data for axes							
		h	b	d	t	R		X-X				Y-Y			
								I <sub>x</sub>	W <sub>x</sub>	r <sub>x</sub>	S <sub>x</sub>	I <sub>y</sub>	W <sub>y</sub>	r <sub>y</sub>	Z <sub>o</sub>
		Kg	mm.					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>	cm
5	4.84	50	32	4.4	7	6	6.16	22.8	9.1	1.92	5.59	5.61	2.75	0.954	1.16
6.5	5.9	65	36	4.4	7.2	6	7.51	48.6	15	2.54	9	8.7	3.68	1.08	1.24
8	7.05	80	40	4.5	7.4	6.5	8.98	89.4	22.4	3.16	13.3	12.8	4.75	1.19	1.31
10	8.59	100	46	4.5	7.6	7	10.9	174	34.8	3.99	20.4	20.4	6.46	1.37	1.44
12	10.4	120	52	4.8	7.8	7.5	13.3	304	50.6	4.78	29.6	31.2	8.52	1.53	1.54
14	12.3	140	58	4.9	8.1	8	15.6	491	70.2	5.6	40.8	45.4	11	1.7	1.67
14a	13.3	140	62	4.9	8.7	8	17	545	77.8	5.66	45.1	57.5	13.3	1.84	1.87
16	14.2	160	64	5	8.4	8.5	18.1	747	93.4	6.42	54.1	63.3	13.8	1.87	1.8
16a	15.3	160	68	5	9	8.5	19.5	823	103	6.49	59.4	78.8	16.4	2.01	2
18	16.3	180	70	5.1	8.7	9	20.7	1090	121	7.24	68.8	86	17	2.04	1.94
18a	17.4	180	74	5.1	9.3	9	22.2	1190	132	7.32	76.1	105	20.7	2.18	2.13
20	18.4	200	76	5.2	9	9.5	23.4	1520	152	8.07	87.8	113	20.5	2.2	2.07
20a	19.8	200	80	5.2	9.7	9.5	25.2	1670	167	8.15	95.9	139	24.2	2.35	2.28
22	21	220	82	5.4	9.5	10	26.7	2110	192	8.89	110	151	25.1	2.37	2.21
22a	22.6	220	87	5.4	10.2	10	28.8	2330	212	8.99	121	187	30	2.55	2.46
24	24	240	90	5.6	10	10.5	30.6	2900	242	9.73	139	208	31.6	2.6	2.42
24a	25.8	240	95	5.6	10.7	10.5	32.9	3180	265	9.84	151	254	37.2	2.78	2.67
27	27.7	270	95	6	10.5	11	35.2	4160	308	10.9	178	262	37.3	2.73	2.47
30	31.8	300	100	6.5	11	12	40.5	5810	387	12	224	327	43.6	2.84	2.52
33	36.5	330	105	7	11.7	13	46.5	7980	484	13.1	281	410	51.8	2.97	2.59
36	41.9	360	110	7.5	12.6	14	53.4	10820	601	14.2	350	513	61.7	3.1	2.68
40	48.3	400	115	8	13.5	15	61.5	15220	761	15.7	444	642	73.4	3.23	2.75