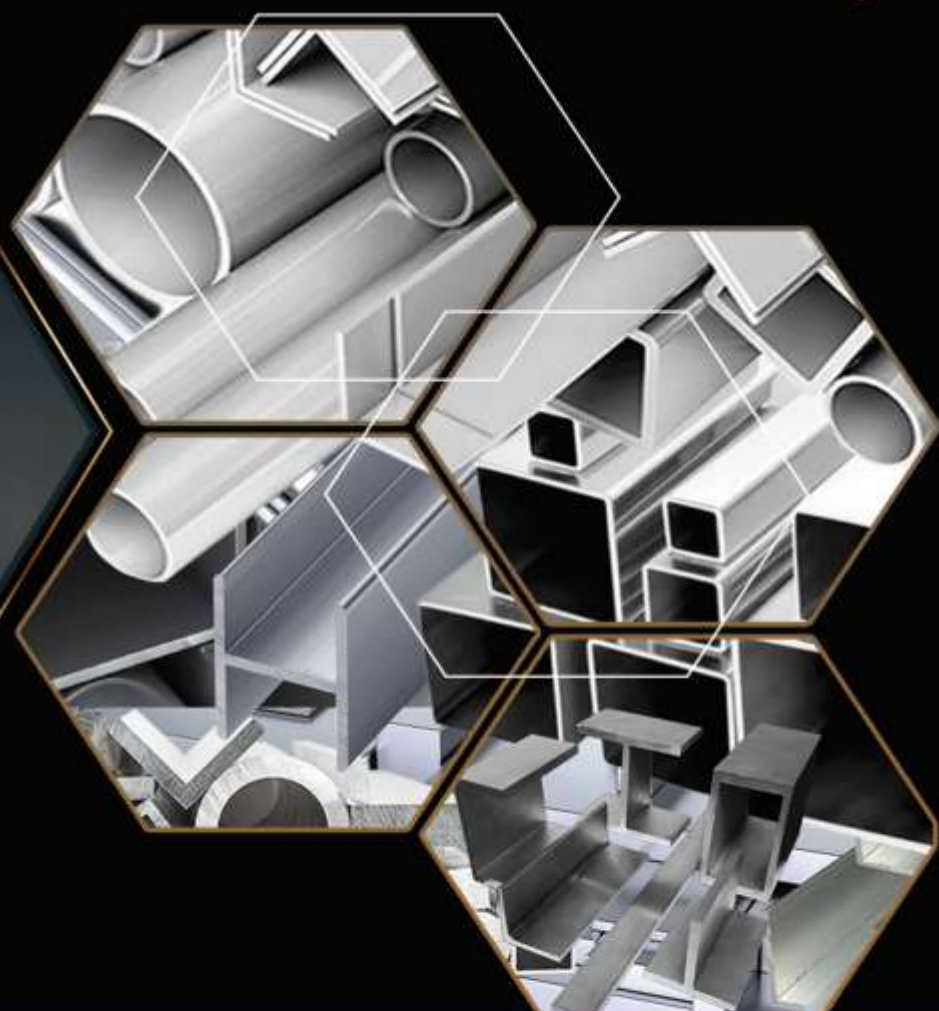


Together To The Top

HYDRO METAL

هايدرو للصناعات المعدنية



STANDARD SECTION PROFILES

Contents Pages

Page	1 → 2	ABOUT US
Page	3	Aluminium Alloys
Page	4 → 9	ROUND TUBES
Page	10 → 11	SQUARE TUBES
Page	12 → 15	RECTANGULAR TUBES
Page	16 → 17	EQUAL ANGLES
Page	18 → 19	UNEQUAL ANGLES
Page	20 → 23	U - SECTIONS
Page	24	T - SECTIONS
Page	25 → 26	H - SECTIONS



نبذة عن الشركة

تعتبر هايدرو ميتال هي شركة رائدة في مجال إنتاج قطاعات وأنظمة الألومنيوم

وقد تأسست عام ١٩٩٩

وأقيم مصنعها على مساحة تجاوزت الـ ١٨ فدان بمنطقة أبو رواش - بالجيزة

أكثر من ٢٥ عام لريادة صناعات قطاعات الألومنيوم في السوق المحلي والعالمي .

وقد تعاهدنا بمشاركة المجتمع المحلي تطورة

وإلتزمنا بالمشاركة في رفع كفاءة ونهضة الصناعة المصرية

الهدف

١- تغطية متطلبات العملاء (داخلياً وخارجياً) في مختلف المجالات

٢- التأكد على التطوير باستخدام أحدث أساليب تكنولوجيا الإنتاج

لمزيد من الإستمرار والتقدم .

الطاقة الإنتاجية القدرة الإنتاجية للمصنع ١٠٠٠ طن شهرياً

الشركة حاصلة على شهادات الجودة ISO 9001 , ISO 14001

وحاصلة على شهادة QUALI COAT للدهانات





أقسام المصنع

- قسم المكابس : يوجد عدد ٢ مكبس ٨ ، ٥ .
- قسم الأفران : يوجد عدد ٧ أفران .
- قسم الأكسدة : الشركة الوحيدة في مصر التي لديها عدد ٢٥ حوض أكسدة لتغطية جميع الألوان المطلوبة (فضي ، بنى فاتح ، بنى غامق ، أسود فاتح ، أسود فحمي ، شامبين ، ذهبي)
- مصنع الإسطمبات : يوجد عدد ٤ ماكينات CNC
- مصنع الدهان : يوجد خط إنتاج كامل إنجليزي .
- مصنع التلميع : يوجد خط تلميع قطاعات كامل بطاقة إستيعابية ٣٠ طن يومياً
- قسم التغليف : يتم التغليف بأعلى الإمكانيات وعلى حسب طلبات العملاء .

Factory Processing



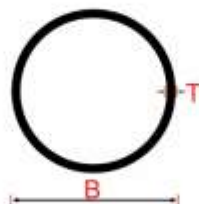


Characteristics & Applications of Aluminium Alloys

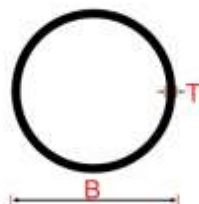
Alloy	Characteristics & Specifications	Product	Applications
1050	High formability & good electric conductivity	Tube & Bars	Drawn tubes , electric conductors slugs
6005	-High Tensile Strength -Withstand High stresses -Good Surface Finish	Medium and Heavy Sections of lighter Thickness than 6061 alloy	Furniture , Ladders , Engineering Applications
6060	-Higher Strength than 6063 alloy can with stand high stresses and loads	Heavy Sections , Profile for Engineering Applications	Scaffolding , Ladders Vans Weaving Product
6061	-Higher Strength than 6063 alloy can with stand high stresses and loads	Heavy Sections , Profile for Engineering Applications	Scaffolding , Ladders Vans
6063	-Excellent for intricate shapes. -Medium strength -Good resistance to corrosion -Excellent anodized surface	Profile for construction And others , Tubes	Construction , structural purposes, Irrigation Pipes
6082	- Recommended Alloy for Structural purposes - With Good Strength and Weld ability	Medium and Heavy Sections	Structural Applications And Transportation

Nominal Chemical Compositions & Mechanical Properties of Alloys

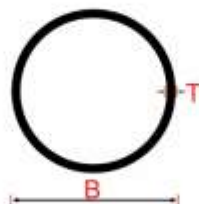
Alloy	Chemical Compositions %									Mechanical Properties				
	SI	MG	CU	FE	CR	ZN	MN	TI	AL	Heat Treatment	Ultimate Tensile Strength Kg/mm ²	Yield Strength Kg/mm ²	Along %	Hardness (H.B)
1050	0.25	0.05	0.4	0.25	0.05	0.05	0.05	0.03	Min 99.5	---	7.5	2	20	---
6005	0.72 0.77	0.53 0.75	0.07	0.35	0.05	0.10	0.07	0.05	Rest	T6	26	24	8	(80)
6060	0.50 0.60	0.45 0.55	0.07	0.33	0.10	0.15	0.10	0.10	Rest	T6	26	24	8	(80)
6061	0.70 0.80	0.85 1.00	0.20 0.30	0.70	0.30	0.20	0.15	0.15	Rest	T4 T6	18 26	11 24	16 8	(65) (90)
6063	0.42 0.50	0.45 0.55	0.10	0.35 0.50	0.07	0.15	0.07	0.10	Rest	T4 T5 T6	13 15 22	7 11 17	14 8 10	(40) (60) (70)
6082	0.85 1.00	0.65 0.80	0.10	0.50	0.25	0.20	0.40	0.10	Rest	T6	29	25	10	(90)



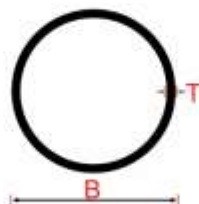
No	Profile No.	D mm	T mm	Weight Kg/Ml
1	11619	15	2	0.219
2	16106	16	1.5	0.184
3	16172	16	2	0.238
4	16101	16	2.5	0.286
5	16123	16	3	0.331
6	16134	17	2.5	0.307
7	16170	18	2	0.271
8	11830	19	1	0.152
9	11609	19	1.5	0.223
10	16137	19	2.5	0.350
11	16189	20	1.2	0.191
12	16180	20	1.3	0.206
13	16161	20	1.5	0.235
14	16119	20	2	0.305
15	11689	20	5	0.636
16	16146	21	2	0.322
17	11690	22	1.5	0.262
18	11691	22	2.5	0.413
19	16171	22	3	0.483
20	16111	22.5	1.4	0.250
21	11823	23	2	0.356
22	16132	23.5	1.35	0.254
23	16112	24	1.4	0.268
24	11664	24	3	0.530
25	16160	25	1.5	0.299



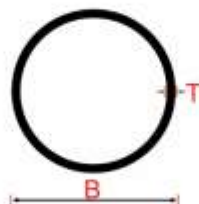
No	Profile No.	D mm	T mm	Weight Kg/Ml
26	11635	25	2	0.392
27	11624	25	2.5	0.475
28	16168	25	3	0.560
29	11608	25	4.35	0.762
30	11653	25	6.75	1.048
31	11656	26.5	2.8	0.559
32	16122	27.5	1.4	0.310
33	11819	28	1.2	0.273
34	16121	28	3	0.636
35	16174	29.1	4.05	0.861
36	16108	30	1.5	0.363
37	16113	30	2	0.475
38	11692	30	3	0.689
39	16120	30	5	1.060
40	11702	32	1.5	0.389
41	11705	32	2	0.511
42	11822	32	2.25	0.567
43	11625	32	4	0.937
44	11657	33	3.1	0.786
45	11647	33	4.7	1.135
46	16176	33.5	3	0.776
47	11831	34	5.35	1.299
48	11694	35	2	0.559
49	11821	35	2.5	0.689
50	11695	35	5	1.272



No	Profile No.	D mm	T mm	Weight Kg/Ml
51	16139	36	6	1.526
52	16159	37	1.8	0.537
53	16140	38	2.8	0.836
54	11607	38	6	1.628
55	16158	39	2	0.628
56	11756	40	1.1	0.363
57	16104	40	2	0.645
58	16179	40	2.5	0.797
59	11697	40	3	0.942
60	16156	40	5	1.484
61	11655	41	3	0.967
62	11666	42	3	0.994
63	11650	43	7	2.138
64	16100	44	3	1.042
65	11622	44	8	2.408
66	11709	45	2.5	0.902
67	16133	45	4	1.390
68	11739	46	8.5	2.703
69	11696	48	3	1.145
70	16136	48.3	4	1.501
71	16147	50	1.5	0.617
72	16135	50	2	0.814
73	16118	50	2.5	1.007
74	16138	50	3	1.196
75	16197	50	3.7	1.452



No	Profile No.	D mm	T mm	Weight Kg/Ml
76	11674	50	4	1.561
77	11777	50	10	3.976
78	16187	50.8	1.2	0.505
79	16155	51	2	0.831
80	11828	52.5	5.25	2.103
81	11707	54	2	0.883
82	11747	55	1.2	0.548
83	16124	58	3	1.399
84	11758	60	1.2	0.599
85	16142	60	2	0.984
86	16125	60	2.5	1.219
87	16126	60	3	1.450
88	16102	60	5	2.333
89	11741	60	10.5	4.409
90	11659	60.2	3.7	1.785
91	16182	63	3	1.526
92	11703	65	2	1.070
93	11701	66	1.5	0.821
94	11673	70	3	1.706
95	11618	70	10	5.090
96	16173	75	2	1.238
97	11605	76.2	1.2	0.763
98	16181	76.2	1.5	0.950
99	11616	80	2.5	1.643
100	11704	80	3	1.961

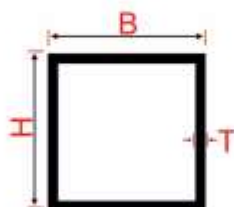


No	Profile No.	D mm	T mm	Weight Kg/Ml
101	11680	80	3.5	2.271
102	16127	80	5	3.179
103	11700	88	2	1.458
104	11660	89	4.9	3.449
105	16186	90	3	2.214
106	16188	90	5	3.605
107	11759	90	10	6.786
108	11735	90	22.5	12.882
109	11832	93	21	12.825
110	16184	95	2.5	1.962
111	11750	95.5	1.5	1.234
112	16191	100	3	2.468
113	11682	100	3.5	2.865
114	11706	100	5	4.029
115	16157	101.6	1.5	1.273
116	11614	102	6	4.883
117	16193	106	2.5	2.192
118	16157	101.6	1.5	1.273
119	11708	110	2.2	2.014
120	11711	110	5	4.452
121	16183	115	5	4.665
122	11730	120	3.8	3.753
123	16185	127.04	1.32	1.406
124	16128	128	2.5	2.660
125	11727	128	3.5	3.659



A diagram of a circular cross-section of a pipe. The diameter is labeled 'D' and the thickness is labeled 'T'.

9

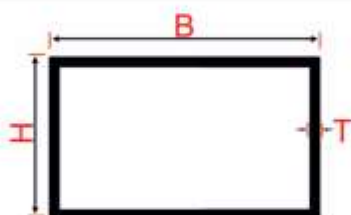


No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
1	16201	15	15	1.5	0.219
2	16264	15	15	2	0.281
3	16208	20	20	1.5	0.300
4	16203	20	20	2	0.389
5	16205	25	25	1.5	0.381
6	16242	30	30	1.2	0.373
7	16209	30	30	1.5	0.462
8	16204	30	30	2	0.605
9	16211	30	30	3	0.875
10	16273	35	35	1.2	0.438
11	16217	35	35	2	0.713
12	16276	40	40	1	0.421
13	16246	40	40	1.2	0.503
14	16226	40	40	1.5	0.624
15	16235	40	40	2	0.820
16	16231	40	40	3	1.199
17	16213	40	40	4	1.555
18	16244	45	45	2	0.929
19	16220	50	50	1.5	0.786
20	16228	50	50	1.6	0.836
21	16219	50	50	2	1.037
22	16214	50	50	3	1.523
23	16218	50	50	3.7	1.850
24	16215	50	50	4	1.987
25	16238	60	60	2	1.253

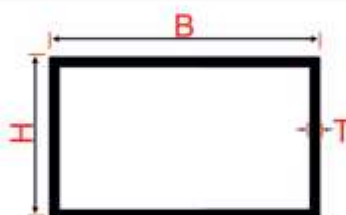


A diagram of a rectangular cross-section. The width is labeled B , the height is labeled H , and the thickness is labeled T .

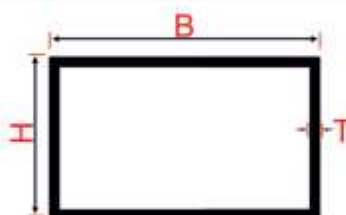
11



No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
1	16313	20	10	2	0.281
2	16439	20	15	2	0.335
3	16514	30	15	1.5	0.340
4	16441	30	15	2	0.443
5	16303	30	20	2	0.497
6	16314	35	15	1.6	0.404
7	16445	35	25	2	0.605
8	16436	40	15	2	0.551
9	16316	40	20	1.5	0.462
10	16310	40	20	2	0.605
11	16318	40	20	3	0.875
12	16356	40	30	2	0.713
13	16442	40	30	3	1.040
14	16465	45	15	2	0.605
15	16435	50	15	2	0.659
16	16377	50	20	2	0.713
17	16329	50	25	1.5	0.583
18	16330	50	25	2	0.767
19	16443	50	30	2	0.821
20	16301	50	30	3	1.999
21	16317	50	40	2	0.929
22	16320	50	40	4	1.771
23	16327	60	20	2	0.821
24	16374	60	25	3	1.280
25	16308	60	30	2	0.929



No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
26	16311	60	40	2	1.037
27	16307	60	40	2.5	1.283
28	16302	60	40	4	1.987
29	16357	60	50	3	1.685
30	16392	70	40	1	0.581
31	16466	70	50	1	0.637
32	16333	75	25	1.2	0.632
33	16343	80	20	1.5	0.786
34	16511	80	20	2	1.037
35	16457	80	40	1.1	0.700
36	16349	80	40	1.3	0.824
37	16346	80	40	1.6	1.009
38	16347	80	40	2	1.253
39	16433	80	40	2.5	1.553
40	16305	80	40	3	1.847
41	16306	80	40	4	2.419
42	16478	80	50	1.3	0.894
43	16428	80	50	4	2.635
44	16458	80	60	1.2	0.892
45	16429	80	60	4	2.851
46	16373	100	20	1.2	0.762
47	16352	100	20	1.6	1.009
48	16393	100	40	1.2	0.894
49	16365	100	40	1.6	1.196
50	16366	100	40	2	1.469

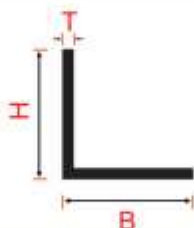


No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
51	16444	100	40	2.5	1.823
52	16462	100	45	1.5	1.150
53	16384	100	45	2	1.523
54	16371	100	50	1.5	1.191
55	16355	100	50	2	1.577
56	16440	100	50	3	2.333
57	16358	100	60	4	3.283
58	16472	120	20	2	1.469
59	16372	120	30	1.2	0.956
60	16376	120	30	2	1.577
61	16431	120	40	2.5	2.093
62	16461	120	30	3	2.333
63	16359	120	40	4	3.283
64	16339	120	50	4	3.499
65	16396	120	60	2	1.904
66	16387	120	80	2	2.117
67	16388	120	80	3	3.143
68	16479	130	80	2.5	2.768
69	16387	120	80	2	2.117
70	75481	150	50	2	2.365
71	16513	150	50	4	4.147
72	75425	150	100	3.2	4.212
73	16368	160	45	3	3.224
74	16375	160	50	2	2.225
75	16453	170	70	3	3.791



A diagram of a rectangular frame. The width is labeled B , the height is labeled H , and the thickness of the frame is labeled T .

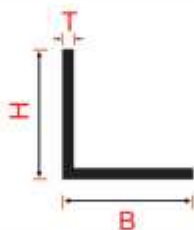
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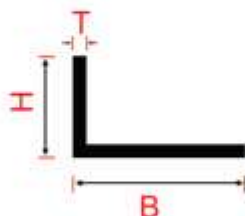


No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
1	18190	10	10	1.5	0.076
2	18100	10	10	2	0.097
3	18172	12	12	1.6	0.098
4	18119	15	15	1.5	0.115
5	18120	15	15	2	0.151
6	18169	18	18	1.1	0.104
7	18122	18	18	1.4	0.131
8	18186	19	19	1.2	0.119
9	18176	20	20	1	0.105
10	18109	20	20	1.5	0.156
11	18105	20	20	2	0.205
12	18106	20	20	2.5	0.253
13	18177	25	25	1	0.132
14	18110	25	25	1.5	0.196
15	18108	25	25	1.8	0.234
16	18107	25	25	2	0.259
17	18143	25	25	3	0.381
18	18178	30	30	1	0.159
19	18113	30	30	1.5	0.237
20	18115	30	30	2	0.313
21	18116	30	30	3	0.462
22	18148	35	35	2	0.367
23	18133	40	40	1.6	0.339
24	18124	40	40	2	0.421
25	18125	40	40	3	0.624

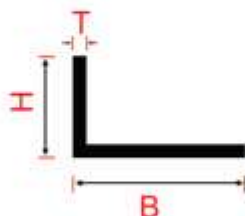


Equal Angles With Sharp Corners

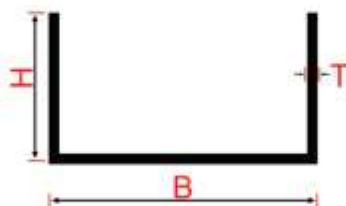
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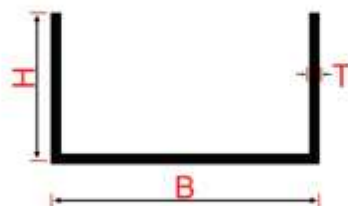
No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
1	19161	15	10	1.5	0.095
2	19100	15	10	2	0.124
3	19117	20	10	2	0.151
4	19164	20	15	1.5	0.135
5	19106	20	15	2	0.178
6	19104	25	10	1.5	0.136
7	19102	25	15	2	0.205
8	19169	25	20	2	0.232
9	19194	27	20	2	0.243
10	19112	30	15	2	0.232
11	19163	30	20	1.5	0.197
12	19109	30	20	2	0.259
13	19187	30	20	3	0.381
14	19141	40	10	2	0.260
15	19130	40	15	2	0.286
16	19193	40	20	1.2	0.191
17	19131	40	20	1.5	0.237
18	19108	40	20	2	0.313
19	19137	40	25	2.5	0.422
20	19126	40	30	2	0.367
21	19118	40	30	3	0.543
22	19186	50	20	2	0.367
23	19138	50	25	2	0.394
24	19140	50	25	2.5	0.489
25	19168	50	30	2	0.421



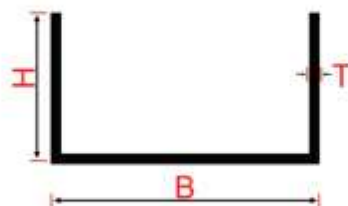
No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
26	19110	50	30	3	0.624
27	19158	50	40	2	0.475
28	19201	50	40	3	0.705
29	19185	60	20	2	0.421
30	19167	60	30	2	0.475
31	19113	60	40	2	0.529
32	19127	60	40	3	0.786
33	19203	60	50	3	0.867
34	19172	70	30	2	0.529
35	19166	80	20	2	0.529
36	19173	80	30	3	0.867
37	19120	80	40	2	0.637
38	19183	80	40	3	0.948
39	19206	80	60	3	1.110
40	19132	90	50	4	1.469
41	19165	100	20	2	0.637
42	19159	100	50	2	0.800
43	19116	100	50	5	1.958
44	19180	100	50	10	3.780
45	19313	120	40	4	1.685
46	13345	150	70	2	1.182
47	19156	150	100	5	3.308



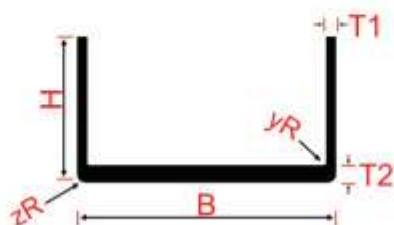
No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
1	12152	9.5	8	1.75	0.104
2	12161	10	8	1.5	0.093
3	12208	10	15	1.5	0.154
4	12153	11	10	1.85	0.138
5	12164	12	10	1.5	0.119
6	13151	13	20	1.2	0.164
7	13101	13.5	8	1.5	0.108
8	12163	15	8	1.5	0.113
9	13150	15	10	1.5	0.130
10	12155	15	15	1.5	0.170
11	12110	15	15	2	0.221
12	12165	16	13	1.5	0.157
13	13154	16	20	2	0.281
14	13149	18	20	1.2	0.180
15	13152	18	25	1.2	0.213
16	13137	19	8	1.6	0.138
17	13148	19	25	1.2	0.216
18	12166	19.5	10	1.5	0.149
19	12160	20	8	1.4	0.124
20	13316	20	10	2	0.194
21	13155	20	20	1.5	0.231
22	13166	20	20	2	0.302
23	13136	22	10	1.5	0.159
24	13192	22	16.5	1.6	0.224
25	12167	22.5	10	1.5	0.160



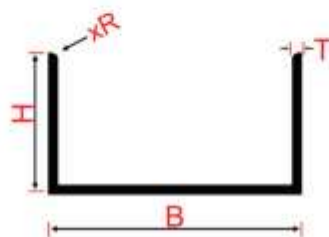
No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
26	13157	23	21.5	1.5	0.255
27	13159	25	25	2	0.383
28	13193	26	18.5	2	0.319
29	13185	30	20	2	0.356
30	13167	30	30	3	0.681
31	13164	33	10	1.5	0.203
32	13139	33	20	2	0.373
33	12116	35	35	2	0.545
34	13204	36	40	3	0.891
35	13162	40	20	1.3	0.272
36	13161	40	20	2	0.410
37	13182	40	40	3	0.926
38	13168	40	40	4	1.210
39	13194	44	20	2	0.432
40	13111	44.5	7.5	2.7	0.394
41	13132	48	27	5	1.242
42	13181	50	15	1.5	0.313
43	13153	50	25	2	0.519
44	12121	50	30	2	0.573
45	13173	50	40	3	1.005
46	12115	50	50	4	1.534
47	13172	55	27	2	0.567
48	13122	55	60	3	1.631
49	12117	60	20	2	0.518
50	13198	60	40	3	1.085



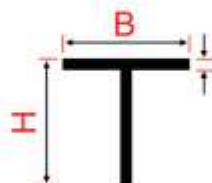
No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
51	12111	60	60	2	0.950
52	13312	68	50	2	0.889
53	12154	70	90	10	6.210
54	13123	80	20	2	0.626
55	12120	80	30	3	1.085
56	13106	80	40	3	1.250
57	12119	80	45	3	1.328
58	13134	80	45	6	2.560
59	75424	90	50	3	1.490
60	13323	100	25	2	0.759
61	13160	100	40	3	1.409
62	13197	100	100	13	9.617
63	13202	110	35	3	1.409
64	13119	120	40	4	2.074
65	13200	130	35	2	1.058
66	13116	140	20	2	0.950
67	13211	150	90	3	2.624
68	13344	150	150	2.5	3.188
69	13210	150	150	4.5	5.359
70	13320	160	65	5	3.780
71	13113	180	20	2.5	1.453



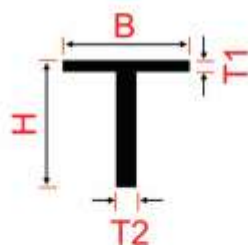
No	Profile No.	B mm	H mm	T1 mm	T2 mm	YR	Weight Kg/Ml
1	13319	15	7.5	1.5	2	1	0.127
2	13178	15.5	30	2.5	4	-	0.518
3	13183	25.2	4	1.2	1.4	-	0.112
4	13179	33	40	2.5	4	-	0.842
5	12204	38	32	2	1.6	1.6	0.495



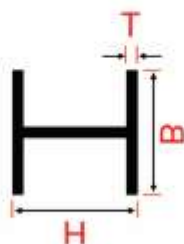
No	Profile No.	B mm	H mm	T mm	XR	Weight Kg/Ml
1	13311	102	50	6	6	3.036



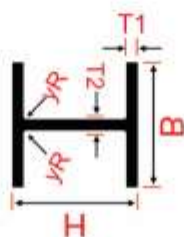
No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
1	14151	15	15	1.5	0.116
2	14152	20	20	1.5	0.157
3	14148	20	20	2	0.205
4	14311	23	17.5	1.5	0.159
5	14310	25	25	3	0.381
6	14313	30	15	1.5	0.176
7	14199	30	30	3	0.462
8	15005	35	35	3	0.543
9	14150	40	40	4	0.821
10	14312	50	50	4	1.037
11	14155	50	50	5	1.283
12	14351	50	88.9	6	2.153
13	14157	60	60	4	1.253
14	14158	60	60	6	1.847
15	14352	70	70	3	1.110
16	14134	80	45	1.8	0.599
17	14132	120	45	1.8	0.794



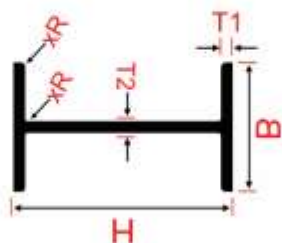
No	Profile No.	B mm	H mm	T1 mm	T2 mm	Weight Kg/Ml
1	14300	39	29	7.8	4	0.948



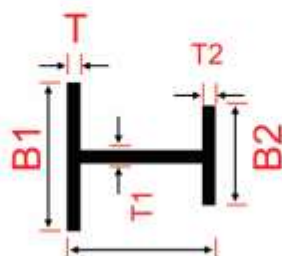
No	Profile No.	B mm	H mm	T mm	Weight Kg/Ml
1	15012	12	9.1	1.3	0.108
2	15008	22	13.5	1.75	0.257
3	15002	43.4	43.4	1.2	0.413
4	15015	44.5	32	3.3	1.021
5	15001	47	47	3	1.094
6	15108	50	50	1.5	0.591
7	15017	80	80	5	3.127
8	15110	80	122	3	2.284



No	Profile No.	B mm	H mm	T1 mm	T2 mm	YR	Weight Kg/Ml
1	15102	41.65	55.3	1.65	1.65	1	0.605
2	15003	48	65	2.5	2		0.972
3	15016	60	60	5	5	3	2.317
4	15010	74	160	10	7.5	2	6.842



No	Profile No.	B mm	H mm	T mm	XR	Weight Kg/Ml
1	15101	35	125	2.5	2.5	1.283



No	Profile No.	B1 mm	B mm	H mm	T mm	T1 mm	T2 mm	Weight Kg/Ml
1	15300	76.2	15.90	127	6.35	3.80	6.35	2.754
2	15301	76.2	15.90	152	7.94	3.81	6.35	3.324
3	15302	76.2	31.80	177.8	7.9	4.10	6.35	3.983



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