

HIAP TECK HARDWARE SDN. BHD. (HTH) is a wholly-owned subsidiary of **HIAP TECK VENTURE BERHAD (HTVB)**, a listed company in the **Main Board of Bursa Malaysia (KLSE)**. **HTH** provides a complete solution to your steel requirements.

SUPPLIER OF COMPREHENSIVE RANGE OF BUILDING MATERIALS

HTH supplies a comprehensive range of building materials to both domestic and overseas market. Our whole range of products include ; -

- **Structural Steel Beams & Column;**
- **Steel Sheet Piles (Type 2, 3, 3A, 4);**
- **Mild Steel & High Tensile Plates;**
- **Mild Steel Chequered Plates;**
- **Ship Plates (Spec: ABS Grade A);**
- **Square Bar;**
- **Mild Steel Equal/Unequal Angles Bars;**
- **Mild Steel Channel Bars ;**
- **Mild Steel Round Bar & High Tensile Deformed Bar;**
- **Black Welded Pipes;**
- **API Pipes;**

- **Square/Rectangular Hollow Section;**
- **Wire Mesh;**
- **High Tensile/CZ Purlin;**
- **Mild Steel Flat Bar;**
- **Scaffoldings & Accessories;**

We are also appointed authorized distributor of steel plates, cement and steel bars products in Malaysia region for ; -

- **Amsteel Mills Sdn. Bhd.**
- **Asia Wire Steel Marketing Sdn. Bhd.**
- **JK Ji Seng Sdn. Bhd.**
- **Southern Steel**
- **Southern Steel Mesh Sdn. Bhd.**

Mild Steel Angles



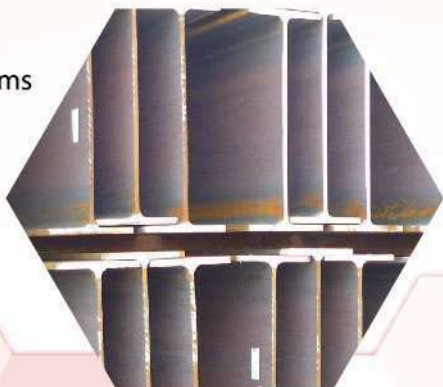
Mild Steel
Unequal Angle





Hiap Teck Hardware

Universal Beams



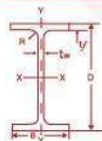
High Tensile
Deformed Bar



Steel Sheet Piles

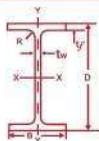


Universal Beams And Columns



Section Size	Unit weight (M)	Section depth (D)	Flange width (B)	Thickness	
				tw	tf
mm	kg/m	mm	mm	mm	mm
500 x 200	77.9	496	199	9	14
	79.5	496	199	9	14
	88.2	500	200	10	16
	89.6	500	200	10	16
	102	506	201	11	19
	103	506	201	11	19
	117	512	202	12	22
500 x 300	111	482	300	11	15
	114	482	300	11	15
	125	488	300	11	18
	128	488	300	11	18
	150	494	302	13	21
600 x 200	79.0	592	197	8	13
	92.6	596	199	10	15
	94.6	596	199	10	15
	103	600	200	11	17
	106	600	200	11	17
	118	606	201	12	20
	120	606	201	12	20
	134	612	202	13	23
600 x 300	133	582	300	12	17
	137	582	300	12	17
	147	588	300	12	20
	151	588	300	12	20
	170	594	302	14	23
	175	594	302	14	23
	203	602	304	16	27
	217	608	304	16	30
700 x 300	166	692	300	13	20
	182	700	300	13	24
	185	700	300	13	24
	215	708	302	15	28
800 x 300	191	792	300	14	22
	207	800	300	14	26
	210	800	300	14	26
	241	808	302	16	30
	267	816	303	17	34
900 x 300	210	890	299	15	23
	213	890	299	15	23
	240	900	300	16	28
	243	900	300	16	28
	283	912	302	18	34
	286	912	302	18	34
	304	918	303	19	37
	307	918	303	19	37

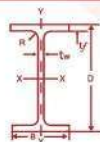
Universal Beams And Columns



Section Number and Nominal Size	Unit weight M		Section area A	Section depth D	Flange		Web Thickness tw
					Width B	Thickness T	
mm (in.)	lb/ft	kg/m	cm ²	mm	mm	mm	mm
W4 102 x 102 (4 x 4)	16.3	24.0	30.9	107.0	100.0	12.0	7.9
	13.8	21.0	26.1	102.0	102.0	9.4	8.0
	13	19.35	24.71	105.7	103.1	8.76	7.11
W5 127 x 76 (5 x 3)	9	13.00	16.80	127.0	76.2	7.60	4.20
W5 127 x 127 (5 x 5)	19	28.28	35.87	130.8	127.8	10.90	6.86
	16	23.81	30.39	127.3	127.0	9.14	6.10
W6 152 x 76 (6 x 3)	12	18.0	21.6	155.0	75.0	8.5	6.0
	9	14.0	17.8	150.0	75.0	7.0	5.0
W6 152 x 89 (6 x 3½)	11	16.00	20.50	152.4	88.9	7.70	4.60
W6 152 x 102 (6 x 4)	16	23.81	30.58	159.5	102.4	10.20	6.60
	12	17.86	22.90	153.2	101.6	7.11	5.84
	9	13.39	17.29	149.9	100.1	5.46	4.32
W6 152 x 152 (6 x 6)	25	37.20	47.35	162.1	154.4	11.50	8.13
	20	30.00	37.87	157.5	152.9	9.27	6.60
	15.7	23.00	29.80	152.4	152.4	6.80	6.10
	15	22.50	28.58	152.1	152.1	6.60	5.84
W7 178 x 89 (7 x 3½)	15	22.2	28.2	179.0	90.0	10.0	6.0
	12	18.1	23.0	175.0	90.0	8.0	5.0
	11	16.1	20.4	173.0	90.0	7.0	4.5
W7 78 x 102 (7x4)	13	19.00	24.20	177.8	101.6	7.90	4.70
W8 203 x 102 (8 x 4)	15.5	23.00	29.00	203.2	101.6	9.30	5.20
	15	22.32	28.65	206.0	102.0	8.00	6.22
	13	19.35	24.77	202.9	101.6	6.48	5.84
	10	14.88	19.10	200.4	100.1	5.21	4.32
W8 203 x 133 (8 x 5¼)	21	31.30	39.74	210.3	133.9	10.10	6.35
	20	30.00	38.00	206.8	133.8	9.60	6.30
	18	26.79	33.94	206.8	133.3	8.38	5.84
	17	25.30	32.30	203.2	133.4	7.80	5.84
	15	22.3	28.7	202.0	133.0	7.0	5.0
	14	21.0	27.1	203.0	133.0	6.4	5.0
W8 203 x 165 (8 x 6½)	28	41.67	53.23	204.7	166.0	11.80	7.24
	24	35.72	45.68	201.4	165.0	10.10	6.22

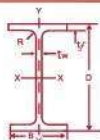
For more details, kindly visit www.hiapteck.com

Universal Beams And Columns



Section Number and Nominal Size	Unit weight M		Section area A	Section depth D	Flange		Web Thickness t _w
					Width B	Thickness T	
mm (in.)	lb/ft	kg/m	cm ²	mm	mm	mm	mm
W8 203 x 203 (8 x 8)	67	100.0	127.1	228.6	210.3	23.75	14.48
	58	86.31	110.3	222.2	208.8	20.57	12.95
	48	71.43	90.97	215.9	206.0	17.40	10.16
	40	60.00	75.48	209.5	205.0	14.20	9.14
	35	52.09	66.45	206.2	203.7	12.50	7.87
	31	46.13	58.84	203.2	203.1	11.00	7.24
W10 254 x 102 (10 x 4)	19	28.28	36.26	260.1	102.1	10.00	6.35
	17	25.30	32.19	256.8	101.9	8.38	6.10
	15	22.32	28.45	253.7	101.6	6.86	5.84
	12	17.86	22.84	250.7	100.6	5.33	4.83
W10 254 x 146 (10 x 5¾)	30	44.80	57.10	265.9	147.8	12.90	7.62
	29	43.00	55.10	259.6	147.3	12.70	7.30
	26	38.69	49.10	262.4	146.6	11.10	6.60
	25	37.20	47.50	256.0	146.4	10.90	6.40
	22	32.74	41.87	258.3	146.0	9.14	6.10
	21	31.25	40.00	251.5	146.1	8.60	6.10
	16	24.0	31.1	253.0	145.0	6.4	5.0
W10 254 x 203 (10 x 8)	57	84.8	108	207.0	211.3	16.5	16.5
	45	66.97	85.81	256.5	203.7	15.70	8.89
	42	62.5	79.3	249.4	207.0	12.2	12.2
	39	58.04	74.19	252.0	202.8	13.40	8.00
	33	49.11	62.64	247.1	202.2	11.00	7.37
W10 254 x 254 (10 x 10)	112	167.0	212.3	288.5	264.5	31.75	19.18
	110	149.0	189.7	282.2	262.6	28.45	17.27
	89	132.0	168.9	276.4	261.0	25.30	15.60
W10 254 x 254 (10 x 10)	88	131.0	167.1	275.3	260.7	25.15	15.37
	77	115.0	145.8	269.2	258.8	22.10	13.46
	72	107.0	136.6	266.7	258.3	20.50	13.00
	68	101.2	129.0	264.2	257.3	19.56	11.94
	60	89.29	113.5	259.6	256.0	17.27	10.67
	54	80.36	101.9	256.3	254.8	15.60	9.40
	49	73.00	92.90	253.5	254.0	14.20	8.64
W12 305 x 102 (12 x 4)	22	33.00	41.81	312.7	102.4	10.80	6.60
	19	28.28	35.94	308.9	101.7	8.89	5.97
	16.5	25.00	31.40	304.8	101.6	6.80	5.80
	16	23.81	30.39	304.5	101.3	6.73	5.59
	14	20.83	26.84	302.5	100.8	5.71	5.08
W12 305 x 127 (12 x 5)	32	48.00	60.8	310.4	125.2	14.00	8.90
	28	42.00	53.2	306.6	124.3	12.10	8.00
	25	37.00	47.5	303.8	123.5	10.70	7.20

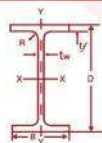
Universal Beams And Columns



Section Number and Nominal Size	Unit weight M		Section area A	Section depth D	Flange		Web Thickness tw
					Width B	Thickness T	
mm (in.)	lb/ft	kg/m	cm ²	mm	mm	mm	mm
W12 305 x 165 (12 x 6½)	36	54.00	68.40	310.9	166.8	13.70	7.70
	35	52.09	66.45	317.5	166.6	13.20	7.62
	31	46.00	58.90	307.1	165.7	11.80	6.70
	30	44.64	56.71	313.4	165.6	11.10	6.60
	27	40.00	51.50	303.8	165.1	10.20	6.10
	26	38.70	49.35	310.4	164.8	9.65	5.84
	21	31.0	39.4	306.0	164.0	7.4	5.0
W12 305 x 203 (12 x 8)	50	74.41	94.84	309.6	205.2	16.20	9.40
	45	66.97	85.16	306.3	204.3	14.60	8.51
	40	59.53	76.13	303.3	203.3	13.00	7.49
W12 305 x 254 (12 x 10)	58	86.31	109.7	309.6	254.3	16.20	9.14
	53	78.87	100.6	306.3	253.9	14.60	8.76
W12 305 x 305 (12 x 12)	336	500.0	637.4	427.2	340.0	75.06	45.08
	305	453.9	578.1	414.5	336.2	68.71	41.27
	278	413.7	528.4	402.6	333.8	62.74	38.86
	242	375.0	477.4	391.4	330.3	57.15	35.43
	230	342.3	436.8	382.3	327.5	52.58	32.64
	210	312.5	398.7	373.6	324.9	48.26	29.97
	190	283.0	360.0	365.3	321.8	44.07	26.92
	170	253.0	322.6	356.4	319.3	39.62	24.38
	161	240.0	305.6	352.6	317.9	37.70	23.00
	152	226.2	288.4	348.2	317.0	35.56	22.10
	136	202.4	257.4	340.6	315.0	31.75	20.07
	133	198.0	252.3	339.9	314.1	31.40	19.20
	120	179.0	227.7	333.2	312.9	28.07	18.03
	106	158.0	201.3	327.4	310.4	24.14	15.48
	96	143.0	182.0	322.8	308.9	22.86	13.97
	92	137.0	174.6	320.4	308.7	21.70	13.80
	87	129.5	165.2	318.3	308.0	20.57	13.08
	79	118.0	149.7	314.5	306.8	18.67	11.94
	72	107.1	136.1	311.1	305.8	17.02	10.92
	65	97.0	123.2	307.8	304.8	15.30	9.91
W14 356 x 127 (14 x 5)	26	39.0	49.61	353.3	127.6	10.60	6.48
	22	33.0	41.87	349.0	127.0	8.51	5.84
W14 356 x 171 (14 x 6¾)	45	67.0	85.40	364.0	173.2	15.70	9.10
	38	57.0	72.26	358.1	172.0	13.00	7.87
	34	51.0	64.52	355.1	171.3	11.50	7.24
	30	45.0	57.10	351.5	170.9	9.78	6.86
W14 356 x 203 (14 x 8)	53	78.87	100.6	353.6	204.7	16.70	9.40
	48	71.43	90.97	350.3	204.0	15.10	8.64
	43	63.99	81.29	347.0	203.1	13.40	7.75

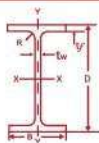
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Universal Beams And Columns



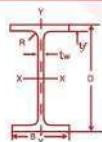
Section Number and Nominal Size	Unit weight M		Section area A	Section depth D	Flange		Web Thickness tw
					Width B	Thickness T	
mm (in.)	lb/ft	kg/m	cm ²	mm	mm	mm	mm
W14 356 x 254 (14 x 10)	82	122.0	155.5	363.5	257.3	21.72	12.95
	74	110.1	140.6	359.9	255.8	19.94	11.43
	68	101.2	129.0	356.6	254.9	18.36	10.54
	61	90.78	115.5	352.8	253.9	16.30	9.52
W14 356 x 368 (14 x 14½)	136	202.0	257.9	374.7	374.4	27.00	16.80
	132	196.4	250.3	372.4	374.0	26.16	16.38
	120	179.0	227.7	367.8	372.6	23.88	14.99
	119	177.0	225.7	368.3	372.1	23.80	14.50
	109	162.2	206.5	363.7	371.0	21.84	13.33
	103	153.0	195.2	362.0	370.2	20.70	12.60
	99	147.3	187.7	359.7	370.0	19.81	12.32
	90	134.0	171.0	356.1	368.8	18.03	11.18
	87	129.0	164.9	355.6	368.3	17.50	10.70
W14 356 x 406 (14 x 16)	730	1,086.0	1,387	569.5	454.4	124.70	77.98
	665	989.6	1,265	549.7	448.3	114.80	71.88
	605	900.3	1,148	531.4	442.3	105.60	65.91
	550	818.5	1,045	514.1	436.9	97.03	60.45
	500	744.1	948.4	497.8	432.1	88.90	55.63
	455	677.1	864.5	483.1	427.6	81.53	51.18
	426	634.0	806.4	474.2	424.1	77.09	47.62
	398	592.3	754.8	464.6	421.4	72.26	44.96
	370	551.0	703.2	455.2	418.5	67.56	42.04
	342	509.0	651.6	445.5	415.5	62.74	39.12
	314	467.0	595.5	436.6	412.4	58.00	35.90
	311	463.0	589.7	434.8	412.2	57.40	35.81
	283	421.1	537.4	425.2	409.2	52.58	32.77
	264	393.0	500.9	419.1	407.0	49.20	30.60
	257	382.5	487.7	416.1	406.3	48.01	29.84
	233	347.0	441.9	407.4	403.6	43.69	27.18
	228	340.0	432.7	406.4	403.0	42.90	26.50
	211	314.0	400.0	399.3	401.3	39.62	24.89
	193	287.2	366.4	393.2	399.0	36.58	22.61
	176	262.0	334.2	386.6	397.5	33.27	21.08
	159	237.0	301.3	380.5	395.4	30.23	18.92
	158	235.0	299.8	381.0	395.0	30.20	18.50
	145	216.0	275.5	375.4	393.7	27.69	17.27
	118	175.6	224	360.0	396.0	20.00	20.00

Universal Beams And Columns



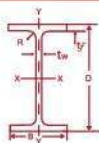
Section Number and Nominal Size	Unit weight M		Section area A	Section depth D	Flange		Web Thickness tw
					Width B	Thickness T	
mm (in.)	lb/ft	kg/m	cm ²	mm	mm	mm	mm
W16 406 x 140 (16 x 5½)	31	46.13	58.84	403.4	140.3	11.10	6.98
	26	39.00	49.55	398.5	139.7	8.76	6.35
W16 406 x 178 (16 x 7)	57	85.0	108.4	417.3	180.8	18.16	10.92
	50	74.41	94.84	413.0	179.6	16.00	9.65
	45	67.0	85.81	409.7	178.7	14.30	8.76
	40	60.0	76.13	406.7	177.7	12.80	7.75
	36	54.0	68.39	402.8	177.4	10.90	7.49
W16 406 x 260 (16 x 10¼)	100	148.8	189.7	431.0	264.8	25.02	14.86
	89	132.4	169.0	425.4	263.3	22.22	13.33
	77	114.6	145.8	419.6	261.5	19.30	11.56
	67	99.71	127.1	414.8	260.0	16.89	10.03
W18 457 x 152 (18 x 6)	55	82.00	104.5	465.1	153.5	18.90	10.7
	50	74.00	95.00	461.3	152.7	17.00	9.90
	46	68.46	87.10	458.7	153.9	15.30	9.14
	45	67.00	85.40	457.2	151.9	15.00	9.10
	40	60.00	76.13	454.7	152.8	13.30	8.00
W18 457 x 191 (18 x 7½)	35	52.09	66.45	449.6	152.4	10.80	7.62
	71	106.0	134.2	469.1	193.9	20.57	12.57
	66	98.00	125.3	467.4	192.8	19.60	11.40
	65	97.00	123.2	466.1	192.8	19.05	11.43
	60	89.29	113.5	463.3	191.9	17.65	10.54
	55	82.00	104.5	460.0	191.3	16.00	9.91
	50	74.41	94.84	456.9	190.4	14.40	9.02
	45	67.00	85.40	453.6	189.9	12.70	8.50
W18 457 x 279 (18 x 11)	41	61.00	76.00	450.0	189.0	10.80	8.10
	175	260.0	331.0	509.0	289.0	40.40	22.60
	119	177.1	226.5	481.8	286.1	26.92	16.64
	106	157.7	200.6	475.7	284.5	23.88	14.99
	97	144.4	183.9	472.2	283.1	22.10	13.59
	88	128.0	163.2	467.1	281.7	19.56	12.19
W21 533 x 165 (21 x 6½)	76	113.1	143.9	462.5	280.3	17.27	10.80
	57	85.00	107.7	534.9	166.5	16.51	10.29
	50	74.41	94.84	529.1	165.9	13.50	9.65
W21 533 x 210 (21 x 8¼)	44	66.00	83.87	524.8	165.1	11.40	8.89
	93	138.4	176.1	549.1	213.9	23.62	14.73
	83	123.5	156.8	544.3	212.2	21.21	13.08
	82	122.0	155.8	544.6	211.9	21.30	12.80
	73	109.0	138.7	539.5	210.7	18.80	11.56
	66	101.2	129.0	536.7	210.1	17.40	10.92
	62	92.27	118.1	533.1	209.3	15.62	10.16
	55	82.00	104.4	528.3	208.7	13.20	9.60
W21 533 x 210 (21 x 8¼)	48	71.4	91.0	523.2	206.8	10.90	8.90

Universal Beams And Columns



Section Number and Nominal Size	Unit weight M		Section area A	Section depth D	Flange		Web Thickness tw
					Width B	Thickness T	
mm (in.)	lb/ft	kg/m	cm ²	mm	mm	mm	mm
W21 533 x 311 (21 x 12¼)	147	218.8	278.7	560.3	317.8	29.21	18.29
	132	196.4	250.3	554.5	316.0	26.29	16.51
	122	181.6	231.6	550.7	314.7	24.38	15.24
	111	165.2	211.0	546.4	313.4	22.22	13.97
	101	150.3	192.3	542.5	312.2	20.32	12.70
W24 610 x 178 (24 x 7)	62	92.27	117.4	603.0	178.8	14.99	10.92
	61	91.00	116.5	602.5	178.4	15.00	10.60
	55	82.00	104.5	598.7	177.9	12.83	10.03
W24 610 x 229 (24 x 9)	146	217	278	643.1	234.1	35.1	19.6
	128	191	242	635.0	231.5	30.9	17.0
	114	171	218	628.9	229.9	27.9	15.5
	103	153	195	623.1	228.6	24.9	14.0
	94	140.0	178.7	598.7	230.2	22.22	13.08
	84	125.0	159.4	617.5	229.1	19.56	11.94
	76	113.1	144.5	612.1	228.3	17.27	11.18
	68	101.2	129.7	607.6	227.7	14.86	10.54
W24 610 x 305 (24 x 12)	160	238	303.8	636.0	311.5	31.4	18.6
	120	179	227.9	617.5	307.0	23.6	14.1
	100	149	190.1	609.6	304.8	19.7	11.9
W24 610 x 324 (24 x 12¾)	192	285.7	363	656.9	328.9	37.1	20.6
	176	261.9	333	641.1	327.4	34.0	19.1
	162	241.1	307.7	635.0	329.1	30.99	17.91
	146	217.3	277.4	628.4	327.7	27.69	16.51
	131	194.9	248.4	621.8	326.5	24.38	15.37
	117	174.1	221.9	616.2	325.1	21.59	13.97
	104	154.8	197.4	611.1	323.8	19.05	12.70
W27 686 x 254 (27 x 10)	182	271	345	723.9	260.2	39.1	21.6
	159	237	301	714.0	257.8	34.0	19.1
	143	213	270	707.9	255.8	31.0	17.0
	129	192	244	701.8	254.3	27.9	15.5
	114	170.0	216.1	693.2	255.8	23.62	14.48
	102	152.0	193.5	688.1	254.4	21.08	13.08
	94	140.0	178.7	683.8	253.7	18.92	12.45
	84	125.0	160.0	678.4	253.0	16.26	11.68
W27 686 x 356 (27 x 14)	217	322.9	411	722.1	358.5	38.1	21.1
	194	288.7	368	714.0	356.4	34.0	19.1
	178	264.9	337.4	706.4	357.8	30.23	18.41
	161	239.6	305.8	700.8	356.1	27.43	16.76
	146	217.3	276.8	695.5	354.7	24.76	15.37

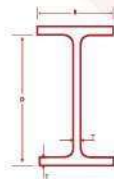
Universal Beams And Columns



Section Number and Nominal Size	Unit weight M		Section area A	Section depth D	Flange		Web Thickness t _w
					Width B	Thickness T	
mm (in.)	lb/ft	kg/m	cm ²	mm	mm	mm	mm
W30 762 x 267 (30 x 10½)	185	275	351	793.0	270.1	37.1	20.6
	165	246	312	785.1	268.1	33.0	18.5
	148	220	281	779.0	266.2	30.0	16.5
	132	197.0	251.0	769.9	267.8	25.40	15.62
	124	185.0	235.5	766.3	267.1	23.62	14.86
	116	173.0	220.6	762.3	266.6	21.59	14.35
	108	161.0	204.5	757.7	266.1	19.30	13.84
	99	147.3	187.7	753.1	265.4	17.02	13.21
W30 762 x 281 (30 x 15)	90	133.9	171	750.0	264.4	15.5	12.0
	261	388.4	495	802.9	384.9	41.9	23.6
	235	349.7	445	795.0	382.4	38.1	21.1
	211	314.0	400.0	785.9	383.7	33.40	19.68
	191	284.2	361.9	779.3	382.0	30.10	18.03
W33 838 x 292 (33 x 11½)	173	157.5	327.7	773.2	380.6	27.05	16.64
	204	304	386	871.2	295.7	37.1	20.6
	187	278	355	865.1	294.1	34.0	19.1
	169	252	319	859.0	292.1	31.0	17.0
	152	226.2	288.4	850.6	293.8	26.80	16.13
	141	210.0	268.4	845.8	293.0	24.38	15.37
	130	194.0	247.1	840.5	292.4	21.72	14.73
W33 838 x 400 (33 x 15½)	118	176.0	223.9	834.6	291.6	18.80	13.97
	293	433.1	552	884.9	404.0	43.9	24.4
	263	391.4	499	877.1	401.4	39.9	22.1
	241	358.6	457.4	868.2	402.8	35.56	21.08
	221	328.9	419.4	861.8	401.4	32.38	19.68
W36 914 x 305 (36 x 12)	201	299.1	381.3	855.5	399.9	29.21	18.16
	256	381	486	950.7	310.3	43.9	24.4
	232	345	440	942.9	307.8	39.9	22.1
	210	313.0	398.7	931.9	309.4	34.54	21.08
	194	289.0	367.7	926.8	307.7	32.00	19.43
	182	271.0	345.8	922.8	306.7	29.97	18.41
	170	253.0	322.6	918.7	305.6	27.94	17.27
	160	238.1	303.2	914.7	304.8	25.91	16.51
W36 914 x 419 (36 x 16½)	150	224.0	285.2	910.6	304.2	23.88	15.87
	135	201.0	256.1	903.0	303.5	20.07	15.24
	359	534.2	680	950.0	424.9	51.1	28.5
	328	488.1	622	942.1	422.4	47.0	25.9
	300	447.0	569.7	933.2	423.0	42.67	24.00
	280	417.0	531.6	927.6	421.5	39.88	22.48
	260	388.0	493.5	921.0	420.4	36.58	21.34
	245	365.0	465.2	916.4	419.4	34.29	20.32
	230	343.0	436.1	911.9	418.3	32.00	19.30

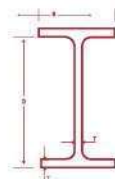
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Universal Bearing Piles



US term	Serial size in	Weight per ft lb	Depth of Section D in	Width of Section B in	Thickness Web and Flange in
HP14	14 X 14½	117	14.234	14.885	0.805
		102	14.032	14.784	0.704
		89	13.856	14.696	0.616
		73	13.636	14.586	0.506
No Imperial equivalent					
HP12	12 X 12	150	13.308	12.810	1.200
		125	12.928	12.620	1.010
		100	12.528	12.420	0.810
		85	12.308	12.310	0.700
		74	12.122	12.217	0.607
		64	11.960	12.136	0.526
		59	11.878	12.085	0.485
		53	11.780	12.046	0.436
No Imperial equivalent					
HP10	10 X 10	57	10.012	10.224	0.564
		48	9.838	10.137	0.477
		42	9.72	10.078	0.418
No Imperial equivalent					
HP8	8 X 8	36	8.026	81.58	0.446
		30	7.880	8.085	0.373
No Imperial equivalent					

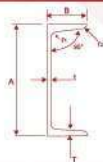
Universal Bearing Piles



Serial Size mm	Mass kg / m	Depth of Section D mm	Width of Section B mm	Thickness Web and Flange mm
+ 400 X 400	235	408	412	25
	197	400	408	21
	168	394	405	18
	140	388	402	15
* 356 X 388	174	361.5	378.1	20.4
	152	356.4	375.5	17.9
	133	351.9	373.3	15.6
	109	346.4	370.5	12.9
+ 350 X 350	156	350	357	19
	131	344	354	16
	106	338	351	13
* 305 X 305	223	338.0	325.4	30.5
	186	328.4	320.5	25.7
	149	318.2	305.5	20.6
	126	312.6	312.7	17.8
	110	307.9	310.3	15.4
	95	303.8	308.3	13.4
	88	301.7	307.2	12.3
	79	299.2	306.0	11.1
+ 300 X 300	142	310	310	20
	106	300	305	15
	84.5	294	302	12
	83.4	294	302	12
* 254 X 254	85	254.3	259.7	14.3
	71	249.9	257.5	12.1
	63	246.9	256.0	10.6
+ 250 X 250	82.2	250	255	14
	64.4	244	252	11
	63.8	244	252	11
* 203 X 203	54	203.9	207.2	11.3
	45	202.2	205.4	9.5
+ 200 X 200	56.2	200	204	12

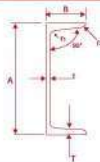
*BS4: Part 1:1980 sizes
+JIS series

For more details, kindly visit www.hiapteck.com



METRIC SERIES

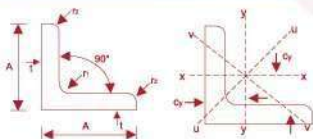
Size	Dept (A)	Flange Width (B)	Web (t) Thickness	Flange (T) Thickness	Weight	
A X B X t	mm	mm	mm	mm	kg/m	kg/ft
380 x 100 x 10.5	380	100	10.5	16	54.5	16.6
380 x 100 x 13	380	100	13	6.5	62.0	18.9
300 x 90 x 9	300	90	9	12	38.1	11.6
300 x 90 x 10	300	90	10	15.5	43.8	13.3
280 x 100 x 9	280	100	9	13	38.8	11.8
280 x 100 x 11.5	280	100	11.5	16	48.2	14.7
250 x 80 x 8	250	80	8	12.5	30.2	9.22
250 x 90 x 9	250	90	9	13	34.6	10.5
250 x 90 x 11	250	90	11	14.5	40.2	12.2
230 x 80 x 8	230	80	8	12	28.4	8.64
230 x 90 x 8.5	230	90	8.5	13.5	33.1	10.1
200 x 80 x 7.5	200	80	7.5	11	24.6	7.50
200 x 90 x 8	200	90	8	13.5	30.3	9.25
180 x 75 x 7	180	75	7	10.5	21.4	6.51
180 x 90 x 7.5	180	90	7.5	12.5	27.1	8.27
150 x 75 x 6.5	150	75	6.4	10	18.6	5.67
150 x 75 x 9	150	75	9	12.5	24.0	7.32
125 x 65 x 6	125	65	6	8	13.4	4.09
100 x 50 x 5	100	50	5	7.5	9.36	2.85
75 x 40 x 5	75	40	5	7	6.92	2.11



IMPERIAL UNITS

Designation		Depth of Section A		Thickness	
Serial size	Mass per metre			Web t	Flange T
mm	kg	mm	mm	mm	mm
432 x 102	65.54	431.8	101.6	12.2	16.8
381 x 102	55.10	381.0	101.6	10.4	16.3
305 x 102	46.18	304.8	101.6	10.2	14.8
305 x 89	41.69	304.8	88.9	10.2	13.7
254 x 89	35.74	254.0	88.9	9.1	13.6
254 x 76	28.29	254.0	75.2	8.1	10.9
229 x 89	32.76	228.6	88.9	8.6	13.3
229 x 76	26.06	228.6	76.2	11.2	2.00
203 x 89	29.76	203.2	88.9	8.1	12.9
203 x 76	23.82	203.2	76.2	7.1	11.2
178 x 89	26.81	177.8	88.9	7.6	12.3
178 x 76	20.84	177.8	76.2	6.6	10.3
152 x 89	23.84	152.4	88.9	7.1	11.6
152 x 76	17.88	152.4	76.2	6.4	9.0
127 x 64	14.90	127.0	63.5	6.4	9.2
100 x 50	7.36	100.0	50.0	5.0	7.5
75 x 40	6.92	75.0	40.0	5.0	7.0

Equal Angles



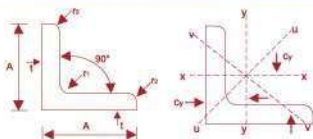
Designation	Size	Thickness	Mass Per Metre
AxA	t		
mm	mm	kg/m	
20x20	3	0.885	
25x25	3	1.12	
	4	1.45	
	5	1.71	
30x30	3	1.36	
	4	1.76	
	5	2.16	
35x35	6	1.65	
38x38	3	1.72	
	4	2.36	
	5	2.79	
	6	3.33	
40x40	3	1.83	
	4	2.42	
	5	2.95	
	6	3.52	
45x45	4	2.74	
	5	3.38	
	6	3.99	
50x50	3	2.33	
	4	3.06	
	4.5	3.40	
	5	3.77	
	6	4.43	
	8	5.78	
60x60	5	4.55	
	6	5.42	

Designation	Size	Thickness	Mass Per Metre
AxA	t		
mm	mm	kg/m	
63x63	5	4.75	
	6	5.71	
	8	7.42	
65x65	5	5.00	
	6	5.91	
	8	7.66	
	9	8.55	
70x70	6	6.38	
	7	7.38	
	8	8.43	
75x75	5	5.69	
	6	6.85	
	8	9.03	
	9	9.96	
	10	10.99	
	12	13.00	
80x80	6	7.34	
	8	9.66	
	10	11.8	
90x90	6	8.30	
	7	9.61	
	8	10.90	
	9	12.20	
	10	13.40	
	12	15.90	
	13	17.00	

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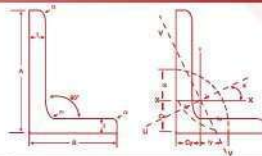
Equal Angles



Designation Size Thickness		Mass Per Metre
AxA	t	
mm	mm	kg/m
100x100	6	9.20
	7	10.70
	8	12.20
	10	15.00
	12	17.80
	13	19.10
	15	21.90
120x120	8	14.70
	10	18.20
	12	21.60
	15	26.60
125x125	8	14.90
	10	19.09
	12	22.67
130x130	8	15.90
	9	17.90
	10	19.70
	12	23.50
	15	28.80
	16	30.70

Designation Size Thickness		Mass Per Metre
AxA	t	
mm	mm	kg/m
150x150	8	18.00
	10	23.00
	12	27.30
	15	33.80
	16	35.70
	18	40.10
	19	41.90
175x175	12	31.80
	15	39.40
200x200	12	36.55
	13	39.48
	15	45.30
	16	48.50
	18	54.20
	20	59.90
	24	71.10
250x250	25	73.60
	26	76.80
	25	93.70
	28	104.00
	32	118.00
300x300	35	128.00
	35	155.00
	35	182.00

Unequal Angles



Designation	Size	Thickness	Mass Per Metre
AxB	t		
mm	mm	kg/m	
63X38	4.5	3.45	
	6	4.43	
75x50	6	5.65	
	8	7.39	
100x65	7	8.8	
	8	9.4	
	9	11.0	
	10	12.3	
	12	14.4	
100X75	7	9.3	
	8	10.6	
	9	11.8	
	10	19.0	
	12	15.4	
	13	16.5	
125X75	6.5	10.0	
	7	10.7	
	8	12.2	
	9	13.5	
	10	15.0	
	12	17.8	
	13	19.1	

Designation	Size	Thickness	Mass Per Metre
AxB	t		
mm	mm	kg/m	
150x75	7	12.1	
	8	13.8	
	9	15.3	
	10	17.0	
	12	20.2	
	15	24.8	
150x90	8	14.3	
	9	16.4	
	10	18.2	
	12	21.6	
	15	26.6	
150x100	8	15.2	
	9	17.1	
	10	19.0	
	12	22.4	
	14	26.1	
	15	27.7	
200X100	10	23.0	
	12	27.3	
	14	31.6	
	15	33.7	
200x150	12	32.0	
	15	39.6	
	18	47.4	

Mild Steel Flat Bars

METRIC SERIES

Section size		Unit weight M kg/m	Section area A cm ²
thickness	width		
mm	mm		
3	12	0.283	0.3600
3	16	0.377	0.4800
3	19	0.447	0.5700
3	25	0.589	0.7500
3	32	0.754	0.9600
3	38	0.895	1.14
3	50	1.18	1.500
4.5	25	0.88	1.125
4.5	32	1.13	1.440
4.5	38	1.34	1.710
4.5	44	1.55	1.980
4.5	50	1.77	2.250
6	14	0.66	0.84
6	32	1.51	1.920
6	38	1.79	2.280
6	44	2.07	2.640
6	50	2.36	3.000
6	65	3.06	3.900
6	75	3.53	4.500
6	90	4.24	5.400
6	100	4.71	6.000
6	125	5.89	7.500
8	25	1.57	2.000
8	32	2.01	2.560
8	38	2.39	3.040
8	44	2.76	3.520
8	50	3.14	4.000
8	65	4.08	5.200
8	75	4.71	6.000
8	90	5.65	7.200
8	100	6.28	8.000
8	125	7.85	10.00
9	25	1.77	2.250
9	32	2.26	2.880
9	38	2.68	3.420
9	44	3.11	3.960
9	50	3.53	4.500

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Mild Steel Flat Bars

METRIC SERIES

Section size		Unit weight M kg/m	Section area A cm ²
thickness	width		
mm	mm		
9	65	4.59	5.850
9	75	5.30	6.750
9	90	6.36	8.100
9	100	7.06	9.000
9	125	8.83	11.25
9	150	10.6	13.50
9	180	12.7	16.20
9	200	14.1	18.00
9	230	16.2	20.70
9	250	17.7	22.50
12	25	2.36	3.000
12	32	3.01	3.840
12	38	3.58	4.560
12	44	4.14	5.280
12	50	4.71	6.000
12	65	6.12	7.800
12	75	7.06	9.000
12	90	8.48	10.80
12	100	9.42	12.00
12	125	11.8	15.00
12	150	14.1	18.00
12	180	17.0	21.60
12	200	18.8	24.00
12	230	21.7	27.60
12	250	23.6	30.00
12	280	26.4	33.60
12	300	28.3	36.00
16	32	4.02	5.120
16	38	4.77	6.080
16	44	5.53	7.040
16	50	6.28	8.000
16	65	8.16	10.40
16	75	9.42	12.00
16	90	11.3	14.40
16	100	12.6	16.00
16	125	15.7	20.00
16	150	18.8	24.00

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Hot-Rolled Steel Plates

JIS G 3131 - 1996 SPHC **JIS G 3101 - SS330**
BS EN 10025 S275 JR **JIS G 3101 - SS400**
BS EN 10025 S355 JR **ASTM A 36**

Thickness	Width x Length	
	4' x 8'	5' x 10'
	1219mm x 2438mm	1524mm x 3048mm
	Calculated Weight	
mm	kg/pc	kg/pc
1.2	27.996	43.757
1.4	32.661	51.050
1.5	34.994	54.697
1.6	37.327	58.343
1.8	41.993	65.636
1.9	44.326	69.282
2.0	46.659	72.929
2.2	51.325	80.222
2.3	53.658	83.868
2.5	58.324	91.161
2.8	65.323	102.100
2.9	67.656	105.747
3.0	69.989	109.393
3.2	74.655	116.686
3.8	88.652	138.565
4.0	93.318	145.858
4.3	100.317	156.797
4.5	104.983	164.090
5.0	116.648	182.322
5.8	135.312	211.494
6.0	139.978	218.787
7.5	174.972	273.483
8.0	186.637	291.716
9.0	209.966	328.180
10.0	233.296	364.644
11.0	256.625	401.109
12.0	279.955	437.573
13.0	303.285	474.038
14.0	326.614	510.502
15.0	349.944	545.967
16.0	373.273	583.431

(*Other sizes & length not stipulated in the table above may be made available upon request)

For more details, kindly visit www.hiapteck.com

HIGH TENSILE DEFORMED BAR

Spec: MS146 : 2014 GRD B500B

	Pieces Per Bundle	New Nominal Weight Per Bundle (Mt)
T10	138	1.022
T12	96	1.023
T16	54	1.024
T20	34	1.008
T25	22	1.016
T32	14	1.060
T40	9	1.065

MILD STEEL ROUND BAR

Spec: MS146 : 2006 GRD 250

	Pieces Per Bundle	New Nominal Weight Per Bundle (Mt)
R6	375	0.999
R8	200	0.948
R10	138	1.022
R12	96	1.023
R16	54	1.023
R20	34	1.006
R25	22	1.017