



FLAT BAR

Maximum resistance.
A true fact.



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Flat bar is a hot rolled product that is handled in ASTM-A-36 steel grade, available in 6.10 meter sections.

DIMENSIONS		WEIGHT		SECTION AREA			
inch	mm	kg/m	lb/ft	mm ²	in ²		
1/8"	1/2"	3.175	12.7	0.32	1.93	0.06	40.32
	3/4"		19.1	0.48	2.90	0.09	60.64
	1"		25.4	0.63	3.86	0.13	80.65
	1 1/4"		31.7	0.79	4.82	0.16	100.65
	1 1/2"		38.1	0.95	5.79	0.19	120.97
	2"		50.8	1.27	7.72	0.25	161.29
	2 1/2"		63.5	1.58	9.65	0.31	201.61
	3"		76.2	1.90	11.59	0.38	241.94
3/16"	1/2"	4.775	12.7	0.48	2.90	0.09	60.64
	3/4"		19.1	0.72	4.37	0.14	91.20
	1"		25.4	0.95	5.81	0.19	121.29
	1 1/4"		31.7	1.19	7.25	0.23	151.37
	1 1/2"		38.1	1.43	8.71	0.28	181.93
	2"		50.8	1.90	11.61	0.38	242.57
	2 1/2"		63.5	2.38	14.52	0.47	303.21
	3"		76.2	2.86	17.42	0.56	363.86
	4"		101.6	3.81	23.23	0.75	485.14
	5"		127	4.76	29.04	0.94	606.43
	6"		152.4	5.71	34.84	1.13	727.71
1/4"	1/2"	6.35	12.7	0.63	3.86	0.13	80.65
	3/4"		19.1	0.95	5.81	0.19	121.29
	1"		25.4	1.27	7.72	0.25	161.29
	1 1/4"		31.7	1.58	9.64	0.31	201.30
	1 1/2"		38.1	1.90	11.58	0.38	241.94
	2"		50.8	2.53	15.45	0.50	322.58
	2 1/2"		63.5	3.17	19.31	0.63	403.23
	3"		76.2	3.80	23.17	0.75	483.87
	4"		101.6	5.07	30.90	1.00	645.16
	5"		127	6.33	38.62	1.25	806.45
	6"		152.4	7.60	46.34	1.50	967.74
	8"		203.2	10.13	61.79	2.00	1290.32
5/16"	1 1/2"	7.95	38.1	2.38	14.51	0.47	302.90
	2"		50.8	3.17	19.34	0.63	403.86
	2 1/2"		63.5	3.96	24.17	0.78	504.83
	3"		76.2	4.76	29.01	0.94	605.79
	4"		101.6	6.34	38.68	1.25	807.72
	5"		127	7.93	48.35	1.56	1009.65
	6"		152.4	9.51	58.02	1.88	1211.58
	8"		203.2	12.68	77.36	2.50	1615.44

NOTE:

1) Weight is in accordance with established in norm ASTM-A-36.

2) Steel is in compliance with norm ASTM-A-36 with the following mechanical properties:

DIMENSIONS		WEIGHT		SECTION AREA			
inch	mm	kg/m	lb/ft	mm ²	in ²		
3/8"	1 1/2"	9.525	38.10	2.85	17.38	0.56	362.90
	2"		50.80	3.80	23.17	0.75	483.87
	2 1/2"		63.50	4.75	28.96	0.94	604.84
	3"		76.20	5.70	34.76	1.13	725.81
	4"		101.60	7.60	46.34	1.50	967.74
	5"		127.00	9.50	57.93	1.88	1209.68
	6"		152.40	11.40	69.51	2.25	1451.61
	8"		203.20	15.19	92.68	3.00	1935.48
1/2"	1 1/2"	12.7	38.10	3.80	23.17	0.75	483.87
	2"		50.80	5.07	30.90	1.00	645.16
	2 1/2"		63.50	6.33	38.62	1.25	806.45
	3"		76.20	7.60	46.34	1.50	967.74
	4"		101.60	10.13	61.79	2.00	1290.32
	5"		127.00	12.66	77.23	2.50	1612.90
	6"		152.40	15.19	92.68	3.00	1935.48
	8"		203.20	20.26	123.57	4.00	2580.64
5/8"	1 1/2"	15.875	38.10	4.75	28.96	0.94	604.84
	2"		50.80	6.33	38.62	1.25	806.45
	2 1/2"		63.50	7.91	48.27	1.56	1008.06
	3"		76.20	9.50	57.93	1.88	1209.68
	4"		101.60	12.66	77.23	2.50	1612.90
	5"		127.00	15.83	96.54	3.13	2016.13
	6"		152.40	18.99	115.85	3.75	2419.35
	8"		203.20	25.32	154.46	5.00	3225.80
3/4"	1 1/2"	19.05	38.10	5.70	34.76	1.13	725.81
	2"		50.80	7.60	46.34	1.50	967.74
	2 1/2"		63.50	9.50	57.93	1.88	1209.68
	3"		76.20	11.40	69.51	2.25	1451.61
	4"		101.60	15.19	92.68	3.00	1935.48
	5"		127.00	18.99	115.85	3.75	2419.35
	6"		152.40	22.79	139.02	4.50	2903.22
	8"		203.20	30.39	185.37	6.00	3870.96
1"	2"	25.4	50.80	10.13	61.79	2.00	1290.32
	3"		76.20	15.19	92.68	3.00	1935.48
	4"		101.60	20.26	123.57	4.00	2580.64
	5"		127.00	25.32	154.47	5.00	3225.80
	6"		152.40	30.39	185.36	6.00	3870.96
	8"		203.20	40.52	247.15	8.00	5161.28

STEEL	YIELD POINT	TENSILE RESISTANCE	% OF ELONGATION	
A-36	Minimum 36 KSI	58 A 80 KSI	IN 8"	IN 2"
			20 Min	23 Min.

NOTE:

Weight is calculated with nominal normal measurements and considering a weight of 7,850 kg. per cubic meter of rolled steel sheet.

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