

# FLAT BAR



STANDARD	Thickness (mm)	CHEMICAL COMPOSITION					MECHANICAL PROPERTIES	
		C (%)	Si (%)	Mn (%)	P (%)	S (%)	Min Yield Point (Mpa)	Tensile Strength (Mpa)
JIS	SPHC	≤0.12			≤ 0.045	≤ 0.035		270
	SS400				≤ 0.05	≤ 0.05		400 - 510
	SM 490YB	≤0.20	≤0.55	≤0.55	≤0.0035	≤0.0035		490-610
ASTM	A36	≤0.25	≤0.4	≤0.4	≤0.04	≤0.05	23	400 - 550
	A283-C	≤0.24	≤0.4	≤0.4	≤0.035	≤0.04	25	205
	A516-70	≤0.27	0.15-0.40	0.15-0.40	≤0.035	≤0.035	260	380-515
	A285-C	≤0.28			≤0.035	≤0.035	30 (205)	55~75 (380~515)
	A572-50	≤0.23	≤0.40	≤0.40	≤0.04	≤0.05	≤345	≤450



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Width	Thickness											
	3	4	4.5	5	6	8	9	10	12	14	15	16
19	2.68	3.58	4.03	4.47	5.37	7.16	8.05					
25	3.53	4.71	5.30	5.89	7.07	9.42	10.60	11.78	14.13	16.49	17.66	18.84
30	4.24	5.65	6.36	7.07	8.48	11.30	12.72	14.13	16.96	19.78	21.20	22.61
32	4.52	6.03	6.78	7.54	9.04	12.06	13.56	15.07	18.09	21.10	22.61	24.12
35	4.95	6.59	7.42	8.24	9.89	13.19	14.84	16.49	19.78	23.08	24.73	26.38
38	5.37	7.16	8.05	8.95	10.74	14.32	16.11	17.90	21.48	25.06	26.85	28.64
40	5.65	7.54	8.48	9.42	11.30	15.07	16.96	18.84	22.61	26.38	28.26	30.14
45	6.36	8.48	9.54	10.60	12.72	16.96	19.08	21.20	25.43	29.67	31.79	33.91
50	7.07	9.42	10.60	11.78	14.13	18.84	21.20	23.55	28.26	32.97	35.33	37.68
55	7.77	10.36	11.66	12.95	15.54	20.72	23.31	25.91	31.09	36.27	38.86	41.45
60	8.48	11.30	12.72	14.13	16.96	22.61	25.43	28.26	33.91	39.56	42.39	45.22
65	9.18	12.25	13.78	15.31	18.37	24.49	27.55	30.62	36.74	42.86	45.92	48.98
70	9.89	13.19	14.84	16.49	19.78	26.38	29.67	32.97	39.56	46.16	49.46	52.75
75	10.60	14.13	15.90	17.66	21.20	28.26	31.79	35.33	42.39	49.46	52.99	56.52
80	11.30	15.07	16.96	18.84	22.61	30.14	33.91	37.68	45.22	52.75	56.52	60.29
85	12.01	16.01	18.02	20.02	24.02	32.03	36.03	40.04	48.04	56.05	60.05	64.06
100	14.13	18.84	21.20	23.55	28.26	37.68	42.39	47.10	56.52	65.94	70.65	75.36
125	17.66	23.55	26.49	29.44	35.33	47.10	52.99	58.88	70.65	82.43	88.31	94.20
150	21.20	28.26	31.79	35.33	42.39	56.52	63.59	70.65	84.78	98.91	105.98	113.04

Width	Thickness											
	19	20	22	25	28	30	32	35	38	40	45	50
19												
25	22.37	23.55	25.91	29.44	32.97	35.33	37.68	41.21	44.75	47.10	52.99	58.88
30	26.85	28.26	31.09	35.33	39.56	42.39	45.22	49.46	53.69	56.52	63.59	70.65
32	28.64	30.14	33.16	37.68	42.20	45.22	48.23	52.75	57.27	60.29	67.82	75.36
35	31.32	32.97	36.27	41.21	46.16	49.46	52.75	57.70	62.64	65.94	74.18	82.43
38	34.01	35.80	39.38	44.75	50.11	53.69	57.27	62.64	68.01	71.59	80.54	89.49
40	35.80	37.68	41.45	47.10	52.75	56.52	60.29	65.94	71.59	75.36	84.78	94.20
45	40.27	42.39	46.63	52.99	59.35	63.59	67.82	74.18	80.54	84.78	95.38	105.98
50	44.75	47.10	51.81	58.88	65.94	70.65	75.36	82.43	89.49	94.20	105.98	117.75
55	49.22	51.81	56.99	64.76	72.53	77.72	82.90	90.67	98.44	103.62	116.57	129.53
60	53.69	56.52	62.17	70.65	79.13	84.78	90.43	98.91	107.39	113.04	127.17	141.30
65	58.17	61.23	67.35	76.54	85.72	91.85	97.97	107.15	116.34	122.46	137.77	153.08
70	62.64	65.94	72.53	82.43	92.32	98.91	105.50	115.40	125.29	131.88	148.37	164.85
75	67.12	70.65	77.72	88.31	98.91	105.98	113.04	123.64	134.24	141.30	158.96	176.63
80	71.59	75.36	82.90	94.20	105.50	113.04	120.58	131.88	143.18	150.72	169.56	188.40
85	76.07	80.07	88.08	100.09	112.10	120.11	128.11	140.12	152.13	160.14	180.16	200.18
100	89.49	94.20	103.62	117.75	131.88	141.30	150.72	164.85	178.98	188.40	211.95	235.50
125	111.86	117.75	129.53	147.19	164.85	176.63	188.40	206.06	223.73	235.50	264.94	294.38
150	134.24	141.30	155.43	176.63	197.82	211.95	226.08	247.28	268.47	282.60	317.93	353.25

NB : Other size is available upon request

Weight (kg) = Thickness x Width x Length x 0.00785

(Weight in kg/6 m)



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