

HIGH STRENGTH PLATE



STANDARD	GRADE	Thickness (mm)	CHEMICAL COMPOSITION					MECHANICAL PROPERTIES			
			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Min Yield Point (Mpa)	Tensile Strength (Mpa)	Minimum Elongation (%)	
ASTM	A572-50	t ≤ 40	≤0.23	≤0.40	≤1.35	≤0.04	≤0.05	≥ 345	≤450	18	21
JIS	SM 490YA	t ≤ 16	≤0.20	≤0.55	≤1.60	≤0.035	≤0.035	≥ 365	490-610	15	
		16 < t ≤ 40						≥ 355		19	
		40 < t ≤ 75						≥ 335		21	
		75 < t ≤ 100						≥ 325		21	
	SM 490YB	t ≤ 16	≤0.20	≤0.55	≤1.60	≤0.0035	≤0.0035	≥ 365	490-610	15	
		16 < t ≤ 40						≥ 355		19	
		40 < t ≤ 75						≥ 335		21	
		75 < t ≤ 100						≥ 325		21	
	SM 520B	t ≤ 16	≤0.20	≤0.55	≤1.60	≤0.0035	≤0.0035	≥ 365	520-640	15	
		16 < t ≤ 40						≥ 355		19	
		40 < t ≤ 75						≥ 335		21	



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PLATE SIZE (STRUCTURAL, MARINE, HIGH STRENGTH, & BOILER PLATE)

In ft	4 x 8	5 x 10	5 x 20	5 x 30	5 x 40	6 x 10	6 x 20	6 x 30	6 x 40	8 x 10
In mm	1,219 x 2,438	1,524 x 3,048	1,524 x 6,096	1,524 x 9,144	1,524 x 12,192	1,829 x 3,048	1,829 x 6,096	1,829 x 9,144	1,829 x 12,192	2,438 x 3,048
1.2	28									
1.5	35									
1.8	42									
2.0	47									
2.2	51									
2.3	54									
2.5	58									
2.6	61									
2.8	65									
3.0	70	109	219			131	263			
3.2	75	117	233							
3.5	82	128	255			153	306			
3.8	89	139	277			166	333			
4.0	93	146	292			175	350			
4.5	105	164	328			197	394			
4.8	112	175	350			210	420			
5.0	117	182	365			219	438			
5.5	128	200	401			241	481			
5.8	135	211	423			254	508			
6.0	140	219	438	656	876	263	525	788	1050	350
7.0	163	255	510	765	1021	306	613	919	1225	408
8.0	187	292	583	875	1166	350	700	1050	1400	467
9.0	210	328	656	984	1312	394	788	1181	1575	525
10.0	233	365	729	1094	1458	438	875	1313	1750	583
11.0	257	401	802	1203	1604	481	963	1444	1925	642
12.0	280	437	875	1312	1750	525	1050	1575	2100	700
13.0	303	474	948	1422	1895	569	1138	1706	2275	758
14.0	327	510	1021	1531	2041	613	1225	1838	2450	817
15.0	350	547	1094	1640	2187	656	1313	1969	2625	875
16.0	373	583	1166	1750	2333	700	1400	2100	2800	933
18.0	420	656	1312	1968	2624	788	1575	2363	3150	1050
19.0	443	693	1385	2078	2770	831	1663	2494	3325	1108
20.0	467	729	1458	2187	2916	875	1750	2625	3500	1167
22.0	513	802	1604	2406	3208	963	1925	2888	3850	1283
25.0	583	911	1823	2734	3645	1094	2188	3281	4375	1458
28.0	653	1021	2041	3062	4082	1225	2450	3675	4900	1633
30.0	700	1094	2187	3281	4374	1313	2625	3938	5250	1750
32.0	747	1166	2333	3499	4666	1400	2800	4200	5600	1866
35.0	817	1276	2552	3827	5103	1531	3063	4594	6125	2041
38.0	887	1385	2770	4155	5540	1663	3325	4988	6650	2216
40.0	933	1458	2916	4374	5832	1750	3500	5250	7000	2333
45.0	1050	1640	3281	4921	6561	1969	3938	5906	7875	2625
50.0	1167	1823	3645	5468	7290	2188	4375	6563	8750	2916
60.0	1400	2187	4374			2625	5250	7875		3500
65.0	1516	2369	4739			2844	5688	8531		3791
70.0	1633	2552	5103			3063	6125	9188		4083
75.0	1750	2734	5468			3281	6563	9844		4374
80.0	1866	2916	5832			3500	7000			4666
90.0	2100	3281	6561			3938	7875			5249
100.0	2333	3645	7290			4375	8750			5833
150.0	3500									

Weight : 4FT x 8FT = Thickness x 23.33 | 5FT X 20FT = Thickness x 72.9 | 6FT X 20FT = Thickness x 87.5 | 8FT X 20FT = Thickness x 116.67



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(in ft)	8 x 20	8 x 30	8 x 40	10 x 10	10 x 20	10 x 40	12 x 10	12 x 20	12 x 40
(in mm)	2,438 x 6,096	2,438 x 9,144	2,438 x 12,192	3,048 x 3,048	3,048 x 6,096	3,048 x 12,192	3,658 x 3,048	3,658 x 6,096	3,658 x 12,192
1.2									
1.5									
1.8									
2.0									
2.2									
2.3									
2.5									
2.6									
2.8									
3.0									
3.2									
3.5									
3.8									
4.0									
4.5									
4.8									
5.0									
5.5									
5.8									
6.0	700								
7.0	817	1225	1633	510	1021	2041	613	1225	2450
8.0	933	1400	1866	583	1166	2333	700	1400	2800
9.0	1050	1575	2100	656	1312	2624	788	1575	3150
10.0	1167	1750	2333	729	1458	2916	875	1750	3500
11.0	1283	1925	2566	802	1604	3208	963	1925	3850
12.0	1400	2100	2800	875	1750	3500	1050	2100	4200
13.0	1516	2275	3033	948	1895	3791	1138	2275	4550
14.0	1633	2450	3266	1021	2041	4082	1225	2450	4900
15.0	1750	2625	3500	1094	2187	4374	1313	2625	5250
16.0	1866	2800	3733	1166	2333	4666	1400	2800	5600
18.0	2100	3150	4200	1312	2624	5250	1575	3150	6300
19.0	2216	3325	4433	1385	2770	5540	1663	3325	6650
20.0	2333	3500	4666	1458	2916	5832	1750	3500	7000
22.0	2566	3850	5133	1604	3208	6415	1925	3850	7700
25.0	2917	4375	5834	1823	3645	7290	2188	4375	8750
28.0	3266	4900	6532	2041	4082	8165	2450	4900	
30.0	3500	5250	7000	2187	4374	8750	2625	5250	
32.0	3733	5600	7466	2333	4666		2800	5600	
35.0	4084	6125	8168	2552	5103		3063	6125	
38.0	4433	6650	8865	2770	5540		3325	6650	
40.0	4666	7000		2916	5832		3500	7000	
45.0	5250	7875		3281	6561		3938	7875	
50.0	5833	8750		3645	7290		4375	8750	
60.0	7000			4374	8750		5250		
65.0	7582			4739	9477		5688		
70.0	8167			5103			6125		
75.0	8750			5468			6563		
80.0				5832			7000		
90.0				6561			7875		
100.0				7290			8750		
150.0									

Weight : 4FT x 8FT = Thickness x 23.33 | 5FT X 20FT = Thickness x 72.9 | 6FT X 20FT = Thickness x 87.5 | 8FT X 20FT = Thickness x 116.67



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