

Technical Specification References

Classification	Specification	Designation of Grade	Mechanical Properties					Chemical Composition %					Bend Test (N2)	
			Tensile Strength N/mm ²	Yield Strength N/mm ²	Elongation			C Max	Si Max	Mn Max	P Max	S Max	Bending Angle	Bending Radius
					Test Piece	Thickness								
Hot Rolled Steel Plates and Sheets & Chequered Plates	JIS G 3131	SPHC	270 min	-	No 5	1.2mm & over, up to 1.6mm 1.6mm & over, up to 3.2mm 3.2mm & over	27 min 29 min 31 min	0.15	-	0.60	0.050	0.050	180°	Flat on itself 0.5t
	JIS G 3101	SS 330	330 to 430	205 min	No 5	5mm & under	26 min	-	-	-	0.050	0.050	180°	0.5t
		No 1A	Over 5mm to 16mm	21 min										
	JIS G 3101	SS 400	400 to 510	245 min	No 5	5mm & under	21 min	-	-	-	0.050	0.050	180°	1.5t
		No 1A	Over 5mm to 16mm	17 min										
BSN 10025	S275JR	410-560 ^(N3)	275 min	-	-	3.0mm & over, up to 4.0mm	22 min	0.24	-	1.60	0.055	0.055	As specified in BS EN 10025	
ASTM A 36	-	400 - 550	250 min	-	-	Gauge Length Lo=50mm	23 min	0.25	0.40	-	0.040	0.050	-	-
Galvanised Steel Sheets	JIS G 3302	SGCC	270 min	205 min	-	Up to 1.6mm 1.6mm & over, up to 3.0mm 3.0mm & over	-	-	-	-	-	-	180°	t ^(N1) t ^(N1) 2t ^(N1)
		SGHC	270 min	205 min	-	Up to 1.6mm 1.6mm & over, up to 3.0mm 3.0mm & over	-	-	-	-	-	-	180°	t ^(N1) t ^(N1) 2t ^(N1)
Cold Rolled Steel Sheets	JIS G 3141	SPCC	270 min	-	No 5	0.6mm & over, up to 1.0mm	36 min	0.12	-	0.50	0.040	0.045	180°	Flat on itself
						1.0mm & over, up to 1.6mm	37 min							
						1.6mm & over, up to 2.5mm	38 min							
						2.5mm & over	39 min							

NOTES : (N1) - up to grade z27 maximum
(N2) - Bend Test test piece No. 3
(N3) - 3mm ≤ nominal thickness ≤ 100mm
t - thickness

Hot-Rolled Steel Plates & Sheets

JIS G 3131 - SPHC
BS EN 10025 S275 JR
ASTM A 36

JIS G 3101 - SS330
JIS G 3101 - SS400

Thickness	Width x Length								
	4' x 8' 1219mm x 2438mm			5' x 10' 1524mm x 3048mm			5' x 20' 1524mm x 6096mm		
	Calculated Weight								
mm	kg/pc	lb/pc	pcs/mt	kg/pc	lb/pc	pcs/mt	kg/pc	lb/pc	pcs/mt
1.2	27.996	61.719	35.7	43.757	96.467	22.9	87.515	192.935	11.4
1.4	32.661	72.005	30.6	51.050	112.545	19.6	102.100	225.091	9.8
1.5	34.994	77.149	28.6	54.697	120.584	18.3	109.393	241.169	9.1
1.6	37.327	82.292	26.8	58.343	128.623	17.1	116.686	257.246	8.6
1.8	41.993	92.578	23.8	65.636	144.701	15.2	131.272	289.402	7.6
1.9	44.326	97.722	22.6	69.282	152.740	14.4	138.565	305.480	7.2
2.0	46.659	102.865	21.4	72.929	160.779	13.7	145.858	321.558	6.9
2.2	51.325	113.151	19.5	80.222	176.857	12.5	160.444	353.714	6.2
2.3	53.658	118.295	18.6	83.868	184.896	11.9	167.736	369.792	6.0
2.5	58.324	128.581	17.1	91.161	200.974	11.0	182.322	401.948	5.5
2.8	65.323	144.011	15.3	102.100	225.091	9.8	204.201	450.181	4.9
2.9	67.656	149.154	14.8	105.747	233.130	9.5	211.494	466.259	4.7
3.0	69.989	154.297	14.3	109.393	241.169	9.1	218.787	482.337	4.6
3.2	74.655	164.584	13.4	116.686	257.246	8.6	233.372	514.493	4.3
3.8	88.652	195.443	11.3	138.565	305.480	7.2	277.130	610.960	3.6
4.0	93.318	205.730	10.7	145.858	321.558	6.9	291.716	643.116	3.4
4.3	100.317	221.159	10.0	156.797	345.675	6.4	313.594	691.350	3.2
4.5	104.983	231.446	9.5	164.090	361.753	6.1	328.180	723.506	3.0
5.0	116.648	257.162	8.6	182.322	401.948	5.5	364.644	803.895	2.7
5.8	135.312	298.308	7.4	211.494	466.259	4.7	422.988	932.518	2.4
6.0	139.978	308.594	7.1	218.787	482.337	4.6	437.573	964.674	2.3
7.5	174.972	385.743	5.7	273.483	602.921	3.7	546.967	1205.843	1.8
8.0	186.637	411.459	5.4	291.716	643.116	3.4	583.431	1286.232	1.7
9.0	209.966	462.892	4.8	328.180	723.506	3.0	656.360	1447.011	1.5
10.0	233.296	514.324	4.3	364.644	803.895	2.7	729.289	1607.790	1.4
11.0	256.625	565.757	3.9	401.109	884.285	2.5	802.218	1768.569	1.2
12.0	279.955	617.189	3.6	437.573	964.674	2.3	875.147	1929.348	1.1
13.0	303.285	668.621	3.3	474.038	1045.064	2.1	948.076	2090.127	1.1
14.0	326.614	720.054	3.1	510.502	1125.453	2.0	1021.004	2250.906	1.0
15.0	349.944	771.486	2.9	546.967	1205.843	1.8	1093.933	2411.685	0.9
16.0	373.273	822.919	2.7	583.431	1286.232	1.7	1166.862	2572.465	0.9

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

Hot-Rolled Steel Plates & Sheets

JIS G 3131 - SPHC
BS EN 10025 S275 JR
ASTM A 36

JIS G 3101 - SS330
JIS G 3101 - SS400

Thickness	Width x Length								
	6' x 8' 1829mm x 2438mm			6' x 10' 1829mm x 3048mm			6' x 20' 1829mm x 6096mm		
	Calculated Weight								
mm	kg/pc	lb/pc	pcs/mt	kg/pc	lb/pc	pcs/mt	kg/pc	lb/pc	pcs/mt
3.0	105.012	231.509	9.5	131.286	289.434	7.6	262.573	578.868	3.8
3.2	112.013	246.943	8.9	140.039	308.730	7.1	280.078	617.459	3.6
3.8	133.015	293.245	7.5	166.296	366.616	6.0	332.592	733.233	3.0
4.0	140.016	308.679	7.1	175.048	385.912	5.7	350.097	771.824	2.9
4.3	150.517	331.830	6.6	188.177	414.855	5.3	376.354	829.711	2.7
4.5	157.518	347.264	6.3	196.930	434.151	5.1	393.859	868.302	2.5
5.0	175.020	385.849	5.7	218.811	482.390	4.6	437.621	964.780	2.3
5.8	203.023	447.584	4.9	253.820	559.572	3.9	507.641	1119.144	2.0
6.0	210.024	463.018	4.8	262.573	578.868	3.8	525.145	1157.736	1.9
7.5	262.530	578.773	3.8	328.216	723.585	3.0	656.432	1447.170	1.5
8.0	280.032	617.358	3.6	350.097	771.824	2.9	700.194	1543.648	1.4
9.0	315.036	694.527	3.2	393.859	868.302	2.5	787.718	1736.603	1.3
10.0	350.040	771.697	2.9	437.621	964.780	2.3	875.242	1929.559	1.1
11.0	385.043	848.867	2.6	481.383	1061.258	2.1	962.767	2122.515	1.0
12.0	420.047	926.037	2.4	525.145	1157.736	1.9	1050.291	2315.471	1.0
13.0	455.051	1003.206	2.2	568.908	1254.214	1.8	1137.815	2508.427	0.88
14.0	490.055	1080.376	2.0	612.670	1350.692	1.6	1225.339	2701.383	0.82
15.0	525.059	1157.546	1.9	656.432	1447.170	1.5	1312.864	2894.339	0.76
16.0	560.063	1234.715	1.8	700.194	1543.648	1.4	1400.388	3087.295	0.71

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