

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

Galvanised Steel Sheets

JIS G 3302 - SGCC
JIS G 3302 - SGHC

Thickness	Width x Length								
	4' x 8'								
	Z 18			Z 22/Z 25			Z 27		
	Calculated Weight								
mm	kg/pc	lb/pc	pcs/mt	kg/pc	lb/pc	pcs/mt	kg/pc	lb/pc	pcs/mt
0.30	7.724	17.028	129.5	7.905	17.428	126.5	8.131	17.926	123.0
0.35	8.891	19.600	112.5	9.072	20.000	110.2	9.298	20.498	107.6
0.36	9.124	20.114	109.6	9.305	20.514	107.5	9.531	21.012	104.9
0.40	10.057	22.172	99.4	10.238	22.571	97.7	10.464	23.069	95.6
0.45	11.223	24.743	89.1	11.405	25.143	87.7	11.631	25.641	86.0
0.50	12.390	27.315	80.7	12.571	27.715	79.5	12.797	28.212	78.1
0.55	13.556	29.886	73.8	13.738	30.286	72.8	13.964	30.784	71.6
0.60	14.723	32.458	67.9	14.904	32.858	67.1	15.130	33.356	66.1
0.70	17.056	37.601	58.6	17.237	38.001	58.6	17.463	38.499	57.3
0.75	18.222	40.173	54.9	18.404	40.573	54.3	18.629	41.071	53.7
0.80	19.389	42.745	51.6	19.570	43.144	51.1	19.796	43.642	50.5
0.85	20.555	45.316	48.6	20.737	45.716	48.2	20.962	46.214	47.7
0.90	21.722	47.888	46.0	21.903	48.288	45.7	22.129	48.785	45.2
1.00	24.055	53.031	41.6	24.236	53.431	41.3	24.462	53.929	40.9
1.10	26.388	58.174	37.9	26.569	58.574	37.6	26.795	59.072	37.3
1.20	28.721	63.318	34.8	28.902	63.717	34.6	29.128	64.215	34.3
1.40	33.387	73.604	30.0	33.568	74.004	29.8	33.794	74.502	29.6
1.45	34.553	76.176	28.9	34.734	76.575	28.8	34.960	77.073	28.6
1.50	35.720	78.747	28.0	35.901	79.147	27.9	36.127	79.645	27.7
1.55	36.886	81.319	27.1	37.067	81.719	27.0	37.293	82.217	26.8
1.60	38.052	83.891	26.3	38.234	84.290	26.2	38.460	84.788	26.0
1.80	42.718	94.177	23.4	42.900	94.577	23.3	43.126	95.075	23.2
1.90	45.051	99.320	22.2	45.233	99.720	22.1	45.459	100.218	22.0
2.00	47.384	104.463	21.1	47.566	104.863	21.0	47.791	105.361	20.9
2.20	52.050	114.750	19.2	52.232	115.150	19.1	52.457	115.648	19.1
2.30	54.383	119.893	18.4	54.564	120.293	18.3	54.790	120.791	18.3
2.50	59.049	130.180	16.9	59.230	130.579	16.9	59.456	131.077	16.8
2.60	61.382	135.323	16.3	61.563	135.723	16.2	61.789	136.221	16.2
2.80	66.048	145.609	15.1	66.229	146.009	15.1	66.455	146.507	15.0
2.90	68.381	150.753	14.6	68.562	151.152	14.6	68.788	151.650	14.5
3.00	70.714	155.896	14.1	70.895	156.296	14.1	71.121	156.794	14.1

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