

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	-	-	-	0.050	0.050	180°	0.5t			
	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	-	-	-	0.050	0.050	180°	1.5t			
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

Chequered Plates (Floor Plates or Tear Drop Plates)

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			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	75.069	165.497	13.3	117.336	258.679	8.5	281.623	620.866	3.6
4.5	110.063	242.645	9.1	172.033	379.264	5.8	412.909	910.299	2.4
6.0	145.058	319.795	6.9	226.730	499.849	4.4	544.195	1199.732	1.8
7.5	180.052	396.943	5.6	281.426	620.432	3.6	675.482	1489.168	1.5
8.0	191.717	422.659	5.2	299.659	660.628	3.3	719.244	1585.646	1.4
9.0	215.046	474.090	4.7	336.123	741.017	3.0	806.768	1778.601	1.2
10.0	238.376	525.524	4.2	372.587	821.405	2.7	894.292	1971.556	1.1
11.0	261.705	576.955	3.8	409.052	901.796	2.4	981.817	2164.514	1.0
12.0	285.035	628.388	3.5	445.516	982.185	2.2	1069.341	2357.469	0.9
13.0	308.365	679.821	3.2	481.981	1062.575	2.1	1156.876	2550.450	0.9
14.0	331.694	731.253	3.0	518.445	1142.965	1.9	1244.401	2743.406	0.8
15.0	355.024	782.686	2.8	554.910	1223.354	1.8	1331.925	2936.362	0.8
16.0	378.353	834.118	2.6	591.374	1303.744	1.7	1419.449	3129.318	0.7

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