

# Technical Specification References

Classification	Specification	Designation of Grade	Mechanical Properties					Chemical Composition %					Bend Test (N2)		
			Tensile Strength	Yield Strength	Elongation		C	Si	Mn	P	S	Bending Angle	Bending Radius		
			N/mm <sup>2</sup>	N/mm <sup>2</sup>	Test Piece	Thickness	Max	Max	Max	Max	Max				
Hot Rolled Steel Plates and Sheets & Chequered Plates	JIS G 3131	SPHC	270 min	-	No.5	1.2mm & over, up to 1.6mm	27 min	0.15	-	0.60	0.050	0.050	180°	Flat on itself 0.5t	
						1.6mm & over, up to 3.2mm	29 min								
						3.2mm & over	31 min								
	JIS G 3101	SS 330	330 to 430	205 min	No 5	5mm & under	26 min	-	-	-	0.05	0.05	180°	0.5t	
						Over 5mm to 16mm	21 min								
		SS 400	400 to 510	245 min	No 5	5mm & under	21 min	-	-	-	0.05	0.05	180°	1.5t	
						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	0.055	-	-	
	Galvanised Steel Sheets	JIS G 3302	SGCC	270 min	205 min	-	Up to 1.6mm	-	-	-	-	-	-	180°	t <sub>(N1)</sub>
1.6mm & over, up to 3.0mm							t <sub>(N1)</sub>								
3.0mm & over							2t <sub>(N1)</sub>								
SGHC			270 min	205 min	-	Up to 1.6mm	-	-	-	-	-	-	-	180°	t <sub>(N1)</sub>
						1.6mm & over, up to 3.0mm									t <sub>(N1)</sub>
						3.0mm & over									2t <sub>(N1)</sub>
Cold Rolled Steel Sheets	JIS G 3141	SPCC	270 min	-	No.5	0.6mm & over, up to 1.0mm	36 min	0.12	-	0.050	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 ≤ 100mm  
 t - thickness