

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
		SS 400	400 to 510	245 min	No 5	5mm & under	21 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	-
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