

Specification			BS 4360		(1986)
Product			Thicknesses		Dimensional Tolerances
Plates			6.00 ≤ e ≤ 80.00 mm (1)		BS 4360
Hot-Rolled Products			e ≤ 12.50 mm		BS 1449 P1
Application					
Structural Material					
Chemical Composition %			Grades		
			43 A	43 B	43 C
C	maximum		0.25	0.21	0.18
Mn	maximum		1.60	1.50	1.50
P	maximum		0.050	0.050	0.040
S	maximum		0.050	0.050	0.040
Si	maximum		0.50	0.50	0.50
Cu	when specified		0.20/0.35 or 0.35/0.50	0.20/0.35 or 0.35/0.50	-
Deoxidation			Si and Al Killed	Si and Al Killed	Si and Al Killed
Mechanical Properties					
Minimum Yield Point		e ≤ 16.00 mm	275	275	275
(TT)		16.00 < e ≤ 40.00 mm	265	265	265
MPa		40.00 < e ≤ 63.00 mm	255	255	255
		63.00 < e ≤ 100.00 mm	245	245	245
Tensile Strength MPa			430/580	430/580	430/580
	Lo =	e ≤ 9.00 mm	16	16	16
Minimum	200 mm	9.00 < e ≤ 150.00 mm	20	20	20
Elongation %	Lo =	e ≤ 9.00 mm	17	17	17
	80 mm	9.00 < e ≤ 150.00 mm	23	23	23
	Lo = 5.654 So		22	22	22
Impact Resistance	Temperature °C		-	-	zero
Notch (V) J minimum	Longitudinal	6.00 e ≤ 100.00mm	-	-	27
Supply			As Rolled	As Rolled	As Rolled