

TYPE	STANDARD	GRADE	thickness : t mm.	CHEMICAL COMPOSITION (max)								TENSION TEST								Through - thickness		IMPACT TEST		
				C	Si	Mn	P	S	Sensitivity of crack		Ceq		Yield ratio		Yield Point or		Tensile Strength		Elongation (min)		thick (mm)	Contractio n	Temp (°C)	Absorbion energy min (Joule)
									(max)	thick	%	thick	max	thick : t mm.	(Ksi) [N/mm ²]	thick : t mm.	(Ksi) [N / mm ²]	thick : t mm.	Test piece	%				
Pressure Vessel Plates carbon steel , Low-and Intermedia te Tensile Strength	A285 ¹⁾ / A285 M (2003)	A	0.17		0.98	0.035	0.035							(24) [165]		(45 - 65) [310 - 450]		gI=200 gI=50	27 30					
		B	0.22		0.98	0.035	0.035							(27) [185]		(50 - 70) [345 - 485]		gI=200 gI=50	25 28					
		C	0.28		0.98	0.035	0.035							(30) [205]		(55 - 75) [380 - 515]		gI=200 gI=50	23 27					