

TYPE	STANDARD	GRADE	thickness : t mm.	CHEMICAL COMPOSITION (max)										TENSION TEST						BEND TEST		IMPACT TEST	
				C	Si	Mn	P	S	N	Cu	OTHER ELEMENTS		Yield Point min		Tensile Strength		Elongation min		Angle (Degree)	Inside radius	Temp (°C)	Absorbion energy min (Joule)	
											thick : t mm.	Kgf / mm ² [MPa, N/mm ²]	thick : t mm.	Kgf / mm ² [MPa, N / mm ²]	thick : t mm.	% L _a =5.65*√S ₀							
Structura I Quality Steels	CSA G40.21 - 2004	300W (44W)	ALL	0.22 ¹⁾	0.40 ^{2),3)}	0.5 - 1.50	0.04	0.05	Grain refining elements 0.10*	* Check from Nb or Nb+V ≤ 0.10 , except where Nb or Nb+V in plate thick > 14 mm. , Si shall be ≥ 0.15% or conform to 3).	t ≤ 65	30.5 [300]	-	46 - 63 [450- 620]	Non proportional	GL50	GL200	-	-				
											65 < t ≤ 200	28.5 [280]			Transverse	21	18						
														Longitude	23	20							