TYPE	STANDARD	GRADE	thickness : t mm.	CHEMICAL COMPOSITION (max)								Tension Test				Impact Test [4]	
				C	Si	Mn min	P	S	Al (total) min	C+(Mn/6)	OTHER ELEMENTS	Yield Point (min) Kgf / mm2 : [MPa , N/mm^2] : (ksi)	Tensile Strength	Elongation min thick : t mm.	Elongation min Transverse GL = 200 mm.	Temp. (^{0}C)	Absorb Energy min (Joule)
ORDINARY-STRENGTH HULL STRUCTURAL STEEL	ABS : THE AMERICAN BUREAU OF SHIPPING (2007)	AB-A	$t \leq 50$	0.21	0.50	2.5 x C	0.035	0.035	-	0.40	Where addition of any other elements have been made as part of the steelmaking practice, the content is to be indicated in the ladle analysis certificate , and when the amount does not exceed 0.02% , these elements may be reported as < 0.02%	24 [235] (34)	41 - 53 [400 - 520] (58 - 75)	$5 < t \leq 10$	16	0 (For grade B)	25 < t ≤ 50 L = 27 T = 20
		AB-B			0.35	0.80											
ROLLED STEELS FOR HULL	BV : BUREAU VERITAS (2005)	BV-A		0.21	0.50	2.5 x C								$10 < t \leq 15$	17		
		BV-B			0.35	0.80 [2]											
ROLLED STEELS FOR STRUCTURAL (NORMAL STRENGTH)	DNV : DET NORSKE VERITAS (2003)	NV-A		0.21	0.50	2.5 x C								$15 < t \leq 20$	18		
		NV-B			0.35 [1]	0.80 [1],[2]											
HOT ROLLED STEEL PLATE	GL [3] : ERMANIS-CHER LLOYD (2005)	GL-A	ANY METHOD EXCEPT RIMMED	0.21	0.50	2.5 x C								$20 < t \leq 25$	19		
		GL-B			0.35	0.80 [2]											
ROLLED STEEL FOR HULL (HOT ROLLED STEEL PLATE)	CLASS NK : (NIPPON KAIJI KYOKAI)	KA		0.21	0.50	2.5 x C								$25 < t \leq 30$	20		
		KB			0.35 [1]	0.80 [1],[2]											
ROLLED STEEL PLATE, STRIP, SECTIONS AND BARS	LR : LLOYD (2004)	LR-A		0.21	0.50	2.5 x C								$30 < t \leq 40$	21		
		LR-B			0.35	0.80 [2]											
														$40 < t \leq 50$	22		
HOT ROLLED STEEL FOR HULL (FOR SHIP PLATE)	ABS / BV / CLASS NK / DNV / GL / LR	D	Killed [5]	0.21	0.35 [6]	0.60	0.035	0.035	0.020 [7]	0.40		24 [235] (34)	41 - 53 [400 - 520] (58 - 75)	$5 < t \leq 10$	16	-20	$t \leq 50$ 27(L)20(T)
														$10 < t \leq 15$	17		
														$15 < t \leq 20$	18		
														$20 < t \leq 25$	19		
		E	Killed and Fine grain treat	0.18		0.70								$25 < t \leq 30$	20	-40	$50 < t \leq 70$ 34(L)24(T)
														$30 < t \leq 35$	21		
														$35 < t \leq 50$	22		