

TYPE	TANDAR	GRADE	thickness : t mm.	CHEMICAL COMPOSITION ( max ) <sup>6)</sup>								Tension Test				Impact Test <sup>4)</sup>	
				C	Si	Mn min	P	S	Al (total) min	C+(Mn/6)	OTHER ELEMENTS	Yield Point (min)	Tensile Strength	Elongation min		Temp. ( <sup>o</sup> C)	Absorb Energy min (Joule)
												Kgf / mm2 : [MPa , N/mm <sup>2</sup> : (ksi)		thick : t mm.	Transverse GL = 200 mm.		
STEEL PLATE FOR USE IN THE CONST RUCTIO N OF HULL	CCS : CHINA CLASSIF ICATIO N SOCIET Y	CCS-A	t ≤ 50 : Any methods except rimmed	0.21	0.50	2.5 x C	0.035	0.035	-	0.015 <sup>3),5)</sup>	0.40	[ 235 ]	41 - 53	5 < t ≤ 10	16	-	t ≤ 50
		CCS-B	Killed <sup>3)</sup>		0.35	0.60								10 < t ≤ 15	17	0 <sup>2)</sup>	27(L)
		CCS-D		0.18										0.70	15 < t ≤ 20	18	-20
		CCS-E	Killed and Fine grain		20 < t ≤ 25	19									-40		
ROLLE D STEELS FOR HULL STRUCT URAL	KR : KOREA N REGIST ER OF SHIPPI NG	KR-A	t ≤ 50 : Any methods except rimmed	0.21	0.50	2.5 x C	0.035	0.035	-	0.015 <sup>3),5)</sup>	0.40	( 34 )	[400 - 520]	25 < t ≤ 30	20	-	50 < t ≤ 70
		KR-B	Killed <sup>3)</sup>		0.35	0.60								30 < t ≤ 40	21	0 <sup>2)</sup>	34(L)
		KR-D		0.18										0.70	40 < t ≤ 50	22	-20
		KR-E	Killed and Fine grain												-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%