

Steel Resistant to Atmospherical Corrosion ASTM A 709 GR. 50 W steel plate

A 709 GR. 50 W steel plate, ASTM A 709 GR. 50 W steel plate, under ASTM standard, we can regard A 709 GR. 50 W steel plate as Steel Resistant to Atmospherical Corrosion

A 709 GR. 50 W steel plate is one mainly of Steel Resistant to Atmospherical Corrosion, A 709 GR. 50 W steel plate is a ASTM standard steel plate with different yield strength and tensile strength under different thickness. It is a kind of steel which is mainly used for steel resistant to atmospherical corrosion

A 709 GR. 50 W ASTM	Comparison of steel grades	
	NFA 35-502	E 36 WB 4
	WBL 087	-
	EN 10155	S355K2G1W
	BS4360	-
	CSA G 4021	-

Chemical analysis -% by mass* of A 709 GR. 50 W steel plate

Grades	C	Si	Mn	P	S	Cu	Cr	Ni	Al	Mo	Nb
	max	max	max	max	max.	max	max	max	Min	max	
A 709 GR. 50 W	0.16	0.20- 0.50	0.50- 1.25	0.025	0.01	0.30- 0.50	0.40- 0.70	0.5	0.02	0.1	0.015-0.05

Mechanical properties of A 709 GR. 50 W steel plate

Thickness	Yield Strength	Tensile	Fracture Elongation[%]	Notch Impact	
	ReH[N/mm2] Rm[N/mm2]transv	Strength	transv. min.	Energy1)Ch Vcomplete samplelongitud. min [J]	
transv.min					
8<t≤16mm	355	490 – 630	20	--20℃	20℃
16<t≤100m	345	490 - 630	20	40V	28V
100<t≤120m	315	460 - 630	18		
125<t150mm	295	450 - 630	18	-	-

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