

steel for resistant to atmospherical corrosion

[Resistant to Atmospherical Corrosion Steel](#) also can be called weathering resistant steel or Atmospheric corrosion resistant structural quality steel .

Due to their chemical compositions, The steel for resistant to Atmospherical Corrosion is stronger & tougher than carbon steel, and is ductile, highly formable & weldable. when utilised unprotected, exhibits increased resistance to atmospheric corrosion compared to unalloyed steels. This is because it forms a protective layer on its surface under the influence of the weather.

High-strength low-alloy structural steel features atmospheric corrosion resistance, which is crucial in structural applications. Atmospheric corrosion resistant steel plate is mainly used to build containers ,truck frames, brackets, crane booms, rail cars and other comparable applications.

Atmospheric corrosion-resistant steel boasts a long history. Full study of such kind of steel started in Europe and America in the 1910s and CORTEN is the first commercial product of its kind developed and distributed under the trade name by U.S. Steel of the USA.

In the latter half of the 1950s, Japan introduced the technology of CORTEN. Since then, each of Japan's steel companies has started developing such steel on its own. Sumitomo Metals has also provided atmospheric corrosion-resistant steel under the trade name of CR2.

According to the Japanese Industrial Standards (JIS), there are atmospheric corrosion resisting steel for welded structure SMA and superior atmospheric corrosion resisting steel SPA, and SMA has plates for painting (P) and those for non-painting (W).

SMA has three kinds of atmospheric corrosion-resistant steels. They are classified into CR2, CR2M and CR2R-H which are equivalent to SMA(P), SMA(W) and SPAH, respectively. As they have been applied to various structures after exposure tests across the country, results will be introduced below.

Material #: 1.8961, 1.8945, 1.8946, 1.8959, 1.8963 , 1.8965, 1.8966, 1.8967

Bebon steel — The most professional exporter on weathering resistant steel

Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:http://www.shipbuilding-steel.com

http://www.bebonchina.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.

JIS: SPA-H

EN 10155 : S 235 J0WP, S 235 J2WP, S 235 J2W,S 355 J0W, S 355 J2G 1W, S 355 J2G2W, S 355 K2G1W, S 366K2G2W

WBL 087: WSt 37-2 , W St 37-3 ,W St 52-3

NFA 35502 : E 24W 2 , E 24 W 3 , E 24 W 4 , E 36 WB 3 , E 36 WB 4, E 36 WA 3,E 36 WA 4

BS 4360:WR 50 A, WR 50 B,WR 50 C

CSA G 4021:gr 350 -A AT,gr 400-A AT

ASTM:A242 gr1, A 600 A/B/C, A588grA, A709gr50W

Fe 235W Fe 355 W

SMA50AW--SMA50CP

UNI: Fe 360 DK 1, Fe 510 C1K1, Fe 510 D1K1, Fe 510 C2K1, Fe 510 D2K1

Material #	EN 10155	SEW 087	NFA 35-502	UNI	BS 4360	UNE	ASTM	JIS G3114
1.8961	S235J2W	WTSt 37-3	E 24 W 4	Fe 360 DK 1				
1.8945	S355J0WP		E 36 WA 3	Fe 510 C1K1	WR 50 A			
1.8946	S355J2WP		E 36 WA 4	Fe 510 D1K1			A 242 Type 1	
1.8959	S355J0W		E 36 WB 3	Fe 510 C2K1	WR 50 B		A 588 - A 242 Gr. 1	SMA 50 AW
1.8963	S355J2G1W	WTSt 52-3		Fe 510 D2K1	WR 50 C		A 588 Gr. A	
1.8965	S355J2G2W							SMA 50 CP
1.8966	S355K2G1W		E 36 WB 4				A 709 Gr. 50 W	
1.8967	S355K2G2W							

Bebon steel — The most professional exporter on weathering resistant steel

Tel:0086-371-86151527

Fax: 0086-371-86011881

Skype: bebonchina

E-mail:bb@bebonchina.com

MSN:bebonchina@hotmail.com

Web:http://www.shipbuilding-steel.com

http://www.bebonchina.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.