



# MAANSHAN IRON AND STEEL CO., LTD.

Customer: TEWOO STEEL (H.K.) LTD.  
 Commpdity: NEWLY HOT ROLLED STEEL H-BEAM.  
 Grade: MC345B  
 Specification: ASTM A572/A572M-2012 GR50 ASTM A6/A6M-2009  
 ASTM A992/A992M-2011

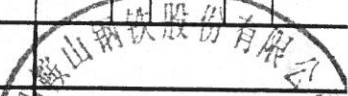
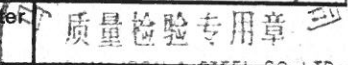
## CERTIFICATE OF PRODUCT QUALITY

ADD: NO.8 JIUHUA WEST ROAD,MAANSHAN  
 CITY, ANHUI PROVINCE,P.R.CHINA  
 POSTCODE: 243000 TEL: (0555)2877326

QUALITY NO.: QSR8132703406  
 CONTRACT NO.: 14MGE-B-9-133-1  
 BATCH1  
 DATE: 2014-11-3

LOT No.	HEAT No.	Size (INCH)	Length (M)	Pieces	Theoretical Weight (MT)	Chemical Composition (%)														Mechanical Properties			Yield Ratio
						C	Si	Mn	P	S	Cr	Ni	Cu	V	Mo	Nb	B	CEV	Sn	Yield Strength $\sigma_s$ (Mpa)	Tensile Strength $\sigma_b$ (Mpa)	Elongation $\delta$ 200 (%)	
214100861	14407164	W12*26	12.192	17	8.024	0.16	0.29	1.24	0.029	0.016	0.03	0.01	0.01	0.021	0.007	0.003	0.0014	0.38	0.000	354	529	26.5	0.67
214100862	14407164	W12*26	12.192	41	19.352	0.16	0.29	1.24	0.029	0.016	0.03	0.01	0.01	0.021	0.007	0.003	0.0014	0.38	0.000	351	524	36.0	0.67
214100863	14109603	W12*26	12.192	30	14.160	0.18	0.29	1.23	0.027	0.020	0.03	0.01	0.01	0.021	0.008	0.003	0.0018	0.40	0.000	355	524	31.0	0.68
214100864	14109603	W12*26	12.192	8	3.776	0.18	0.29	1.23	0.027	0.020	0.03	0.01	0.01	0.021	0.008	0.003	0.0018	0.40	0.000	356	516	35.5	0.69
214100866	14407163	W12*26	12.192	1	0.472	0.19	0.29	1.24	0.028	0.020	0.03	0.01	0.02	0.021	0.009	0.003	0.0019	0.41	0.000	347	554	33.0	0.63
214100867	14109601	W12*26	12.192	23	10.856	0.17	0.30	1.28	0.028	0.021	0.02	0.01	0.02	0.021	0.005	0.002	0.0024	0.39	0.000	350	524	33.0	0.67
214100988	14407169	W12*30	12.192	18	9.774	0.17	0.30	1.26	0.034	0.023	0.05	0.01	0.04	0.021	0.015	0.003	0.0019	0.40	0.000	367	526	32.5	0.70
214100989	14407169	W12*30	12.192	29	15.747	0.17	0.30	1.26	0.034	0.023	0.05	0.01	0.04	0.021	0.015	0.003	0.0019	0.40	0.000	364	508	32.0	0.72
214100990	14407168	W12*30	12.192	25	13.575	0.18	0.28	1.27	0.026	0.017	0.03	0.01	0.02	0.020	0.004	0.003	0.0015	0.40	0.000	365	537	34.5	0.68
214101006	14208441	W12*35	12.192	17	10.778	0.17	0.29	1.23	0.029	0.017	0.03	0.01	0.02	0.047	0.008	0.002	0.0022	0.39	0.000	405	568	36.0	0.71
214101007	14208441	W12*35	12.192	42	26.628	0.17	0.29	1.23	0.029	0.017	0.03	0.01	0.02	0.047	0.008	0.002	0.0022	0.39	0.000	420	571	36.0	0.74
214100452	14308682	W6*25	12.192	57	25.764	0.17	0.32	1.20	0.032	0.013	0.03	0.01	0.01	0.045	0.007	0.002	0.0023	0.39	0.000	420	565	32.0	0.74
214100453	14109041	W6*25	12.192	46	20.792	0.17	0.37	1.27	0.034	0.019	0.03	0.01	0.01	0.044	0.008	0.003	0.0016	0.40	0.000	409	549	36.0	0.75
214100308	14308790	W8*18	12.192	44	14.256	0.17	0.32	1.28	0.033	0.019	0.02	0.01	0.02	0.023	0.007	0.003	0.0021	0.40	0.000	411	586	28.5	0.77
214100309	14406914	W8*18	12.192	70	22.680	0.16	0.34	1.26	0.031	0.025	0.03	0.02	0.01	0.027	0.008	0.003	0.0022	0.38	0.000	347	488	31.0	0.71
214100310	14406914	W8*18	12.192	14	4.536	0.16	0.34	1.26	0.031	0.025	0.03	0.02	0.01	0.027	0.008	0.003	0.0022	0.38	0.000	381	528	27.0	0.72
214100320	14308791	W8*21	12.192	57	21.660	0.18	0.32	1.26	0.034	0.025	0.03	0.01	0.02	0.023	0.008	0.003	0.0024	0.40	0.000	393	545	28.0	0.72
214100321	14406948	W8*21	12.192	55	20.900	0.17	0.28	1.16	0.035	0.026	0.03	0.01	0.01	0.028	0.008	0.003	0.0024	0.40	0.000	393	545	28.0	0.72
<b>TOTAL:</b>				<b>594</b>	<b>263.730</b>																		

EXPLAINS: 1.THE DUPLICATE SHOULD NOT BE EQUALLY AUTHENTIC AS THE ORIGINAL INSPECTION CERTIFICATE  
 2.THE STEEL GRADE IS SUBJECT TO THE INSPECTION CERTIFICATE'S  
 REMARKS: 0.0040%>=B>=0.0008%, OTHERS ACCO. TO ASTM A572 GR50/A572M-2012, A992/A992M-2011, ASTM A6/A6M-2009

Consignor:   
 Quality Control center Auditor: 

张俊

MAANSHAN IRON & STEEL CO.,LTD  
 SPECIALIZED FOR QUALITY INSPECTION