



CERTIFICATE OF PRODUCT QUALITY

Customer: TEWOO METAL (H.K.) LTD.
Commodity: NEWLY HOT ROLLED STEEL H-BEAM.
Specification: ASTM A992/A992M-2011 (B:0.0008%~0.0040%)
 ASTM A572/A572M-2012 ASTM A6/A6M-2009
 ASTM A6/A6M-2009 ASTM A572/A572M-2012
 ASTM A992/A992M-2011 (B:0.0008%~0.0040%)
 ASTM A572/A572M-2012(B:0.0008%~0.0040%)
 ASTM A6/A6M-2009 ASTM A572/A572M-2012

ADD: NO.8 JIUHUA WEST ROAD, MAANSHAN
 CITY, ANHUI PROVINCE, P.R.CHINA
 POSTCODE: 243000 TEL: (0555)2877326
 QUALITY DEPARTMENT :BILU YU
 TEL: (0555)2877321

QUALITY NO.: QSR8132703406
 CONTRACT NO.: 15MGE-B-9-240



DATE 2015-12-21

LOT No.	HEAT No.	STEEL GRADE	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	Sn	CEV	Yield Strength σ_s (Mpa)	Tensile Strength σ_b (Mpa)	Elongation δ_{200} (%)	
215110343	15209652	A572(GR50)	W6*8.5	12.192	158	24.964	0.18	0.22	1.02	0.030	0.023	0.02	0.01	0.02	0.017	0.003	0.002	0.0014		0.36	517	589	27.0	
215110344	15209652	A572(GR50)	W6*8.5	12.192	82	12.956	0.18	0.22	1.02	0.030	0.023	0.02	0.01	0.02	0.017	0.003	0.002	0.0014		0.36	522	584	24.0	
215110345	15209655	A572(GR50)	W6*8.5	12.192	10	1.58	0.17	0.22	0.83	0.023	0.023	0.02	0.01	0.01	0.017	0.002	0.002	0.0013		0.32	503	571	26.0	
215110346	15209655	A572(GR50)	W6*8.5	12.192	126	19.908	0.17	0.22	0.83	0.023	0.023	0.02	0.01	0.01	0.017	0.002	0.002	0.0013		0.32	419	527	26.5	
115111313	15404108	A572(GR50)	W16*26	12.192	57	26.961	0.16	0.22	1.02	0.029	0.016	0.02	0.01	0.02	0.017	0.002	0.002	0.0010		0.34	476	569	20.0	
115111314	15210185	A572(GR50)	W16*26	12.192	61	28.853	0.17	0.27	1.03	0.031	0.019	0.02	0.01	0.02	0.017	0.002	0.003	0.0012		0.35	531	592	20.0	
115111316	15404109	A572(GR50)	W16*26	12.192	53	25.069	0.18	0.23	1.04	0.021	0.031	0.01	0.01	0.02	0.017	0.003	0.004	0.0014		0.36	514	573	20.5	
115111317	15404109	A572(GR50)	W16*26	12.192	64	30.272	0.18	0.23	1.04	0.021	0.031	0.01	0.01	0.02	0.017	0.003	0.004	0.0014		0.36	442	558	22.0	
115120459	15210591	MA345B	W24*84	12.192	7	10.668	0.19	0.32	1.24	0.027	0.023	0.02	0.01	0.02	0.022	0.003	0.003	0.0016		0.41	372	528	24.0	0.70
115120460	15404428	MA345B	W24*84	12.192	24	36.576	0.17	0.27	1.26	0.022	0.017	0.02	0.01	0.02	0.020	0.002	0.003	0.0015		0.39	354	507	27.0	0.70
115120461	15210588	MA345B	W24*84	12.192	2	3.048	0.17	0.30	1.21	0.027	0.024	0.02	0.01	0.03	0.021	0.003	0.003	0.0014		0.38	382	527	27.0	0.72
115120465	15404423	MA345B	W24*84	12.192	1	1.524	0.17	0.27	1.24	0.025	0.012	0.02	0.01	0.01	0.021	0.002	0.003	0.0017		0.39	390	501	26.0	0.78
215110220	15209605	MC345B	W12*22	12.192	47	18.8	0.17	0.23	1.22	0.030	0.017	0.02	0.01	0.02	0.021	0.003	0.002	0.0014		0.38	369	536	32.0	0.69
215110221	15209604	MC345B	W12*22	12.192	49	19.6	0.17	0.24	1.26	0.030	0.018	0.02	0.01	0.02	0.022	0.002	0.003	0.0014		0.39	404	553	30.5	0.73
215110224	15309026	MC345B	W12*22	12.192	6	2.4	0.16	0.26	1.20	0.033	0.018	0.02	0.01	0.02	0.026	0.003	0.003	0.0014		0.37	346	536	31.5	0.64
115111189	15109818	MC345B	W16*36	12.192	40	25.84	0.17	0.26	1.02	0.033	0.035	0.02	0.01	0.02	0.017	0.003	0.003	0.0014		0.35	370	482	25.0	0.77
115111190	15109818	MC345B	W16*36	12.192	36	23.256	0.17	0.26	1.02	0.033	0.035	0.02	0.01	0.02	0.017	0.003	0.003	0.0014		0.35	407	508	25.0	0.80
115111191	15309635	MC345B	W16*36	12.192	28	18.088	0.18	0.26	1.11	0.029	0.019	0.03	0.01	0.02	0.020	0.004	0.003	0.0015		0.38	404	512	24.5	0.78
115111192	15309635	MC345B	W16*36	12.192	3	1.938	0.18	0.26	1.11	0.029	0.019	0.03	0.01	0.02	0.020	0.004	0.003	0.0015		0.38	406	526	24.5	0.77
115111177	15109728	MC345B	W16*50	12.192	32	29.248	0.17	0.29	1.23	0.032	0.016	0.02	0.01	0.02	0.020	0.002	0.003	0.0012		0.39	433	529	25.0	0.81



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LOT No.	HEAT No.	STEEL GRADE	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	Sn	CEV	Yield Strength σ_s (Mpa)	Tensile Strength σ_b (Mpa)	Elongation δ_{200} (%)	
115111178	15207841	MC345B	W16*50	12.192	7	6.398	0.16	0.33	1.28	0.025	0.018	0.01	0.01	0.02	0.020	0.004	0.003	0.0019		0.38	441	560	23.5	0.79
115110366	15109348	MC345B	W21*101	12.192	5	9.145	0.17	0.30	1.28	0.032	0.014	0.02	0.01	0.02	0.021	0.003	0.003	0.0015		0.39	402	527	22.0	0.76
115110367	15209736	MC345B	W21*101	12.192	14	25.606	0.17	0.30	1.28	0.031	0.018	0.02	0.01	0.02	0.022	0.003	0.002	0.0014		0.39	393	534	22.0	0.74
115110368	15208778	MC345B	W21*101	12.192	7	12.803	0.17	0.32	1.28	0.035	0.017	0.03	0.01	0.02	0.023	0.003	0.003	0.0014		0.40	419	538	22.0	0.78
115110399	15309160	MC345B	W21*62	12.192	31	34.782	0.16	0.30	1.25	0.031	0.018	0.01	0.01	0.01	0.038	0.002	0.003	0.0015		0.38	428	548	24.0	0.78
115110386	15109345	MC345B	W21*73	12.192	24	31.896	0.17	0.31	1.23	0.030	0.016	0.02	0.01	0.01	0.022	0.002	0.003	0.0015		0.39	411	519	21.5	0.79
115110387	15208778	MC345B	W21*73	12.192	8	10.632	0.17	0.32	1.28	0.035	0.017	0.03	0.01	0.02	0.023	0.003	0.003	0.0014		0.40	407	515	22.0	0.79
115120472	15210590	MC345B	W24*76	12.192	16	22.048	0.18	0.33	1.25	0.026	0.021	0.02	0.01	0.02	0.022	0.003	0.004	0.0016		0.40	366	518	24.0	0.71
115120473	15404428	MC345B	W24*76	12.192	16	22.048	0.17	0.27	1.26	0.022	0.017	0.02	0.01	0.02	0.020	0.002	0.003	0.0015		0.39	406	524	29.0	0.77
215110523	15308362	MC345B	W6*16	12.192	54	15.822	0.16	0.23	1.24	0.028	0.016	0.02	0.01	0.03	0.021	0.003	0.003	0.0016		0.38	372	531	32.5	0.70
215110525	15209605	MC345B	W6*16	12.192	101	29.593	0.17	0.23	1.22	0.030	0.017	0.02	0.01	0.02	0.021	0.003	0.002	0.0014		0.38	345	534	33.5	0.66
215110899	15403847	MC345B	W8*10	12.192	87	15.921	0.15	0.23	0.86	0.025	0.020	0.01	0.01	0.01	0.017	0.002	0.002	0.0013		0.30	386	494	33.5	0.78
215110901	15209719	MC345B	W8*10	12.192	33	6.039	0.17	0.23	0.87	0.027	0.016	0.03	0.01	0.02	0.018	0.003	0.002	0.0014		0.33	370	479	35.5	0.77
215110902	15209720	MC345B	W8*10	12.192	65	11.895	0.16	0.24	0.87	0.026	0.019	0.02	0.01	0.01	0.019	0.002	0.002	0.0015		0.31	376	472	38.0	0.80
215110903	15209720	MC345B	W8*10	12.192	41	7.503	0.16	0.24	0.87	0.026	0.019	0.02	0.01	0.01	0.019	0.002	0.002	0.0015		0.31	382	496	35.0	0.77
215110904	15309151	MC345B	W8*10	12.192	92	16.836	0.16	0.22	0.84	0.030	0.013	0.02	0.01	0.01	0.016	0.002	0.002	0.0012		0.31	381	489	36.0	0.78
215110925	15109214	MC345B	W8*15	12.192	7	1.918	0.18	0.23	1.25	0.032	0.019	0.02	0.01	0.02	0.022	0.004	0.003	0.0014		0.40	385	535	30.0	0.72
215110926	15309029	MC345B	W8*15	12.192	52	14.248	0.18	0.24	1.27	0.029	0.017	0.02	0.01	0.02	0.022	0.003	0.003	0.0012		0.40	390	530	30.0	0.73
215110927	15309029	MC345B	W8*15	12.192	65	17.81	0.18	0.24	1.27	0.029	0.017	0.02	0.01	0.02	0.022	0.003	0.003	0.0012		0.40	395	539	28.0	0.73
115121110	15404725	MC345B	W18*35	12.192	39	24.726	0.18	0.22	1.05	0.034	0.027	0.02	0.01	0.01	0.018	0.002	0.003	0.0015		0.36	400	525	24.0	0.76



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LOT No.	HEAT No.	STEEL GRADE	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	Sn	CEV	Yield Strength σ_s (Mpa)	Tensile Strength σ_b (Mpa)	Elongation δ_{200} (%)	
115121111	15404725	MC345B	W18*35	12.192	21	13.314	0.18	0.22	1.05	0.034	0.027	0.02	0.01	0.01	0.018	0.002	0.003	0.0015		0.36	400	524	24.0	0.76
115121112	15404724	MC345B	W18*35	12.192	28	17.752	0.18	0.22	1.07	0.031	0.022	0.03	0.01	0.03	0.020	0.004	0.003	0.0014		0.37	405	533	24.0	0.76
115121113	15404724	MC345B	W18*35	12.192	14	8.876	0.18	0.22	1.07	0.031	0.022	0.03	0.01	0.03	0.020	0.004	0.003	0.0014		0.37	410	537	24.5	0.76
115121117	15309612	MC345B	W18*35	12.192	8	5.072	0.17	0.29	1.28	0.033	0.013	0.02	0.01	0.02	0.026	0.002	0.002	0.0015		0.39	401	524	25.0	0.77
115121103	15109819	MC345B	W18*35	12.192	7	4.438	0.16	0.25	1.04	0.029	0.032	0.02	0.01	0.02	0.017	0.002	0.003	0.0016		0.34	359	495	25.5	0.73
115121108	15210882	MC345B	W18*35	12.192	4	2.536	0.17	0.24	1.08	0.035	0.021	0.02	0.01	0.02	0.020	0.003	0.004	0.0014		0.36	401	514	23.0	0.78
115121109	15210882	MC345B	W18*35	12.192	34	21.556	0.17	0.24	1.08	0.035	0.021	0.02	0.01	0.02	0.020	0.003	0.004	0.0014		0.36	405	535	25.0	0.76
115121099	15310367	MC345B	W18*40	12.192	40	29.28	0.18	0.30	1.29	0.027	0.024	0.02	0.01	0.02	0.021	0.003	0.003	0.0015		0.41	392	523	25.0	0.75
115121100	15404720	MC345B	W18*40	12.192	40	29.28	0.18	0.27	1.29	0.027	0.026	0.02	0.01	0.01	0.024	0.003	0.004	0.0014		0.41	385	537	25.5	0.72
115121101	15404720	MC345B	W18*40	12.192	40	29.28	0.18	0.27	1.29	0.027	0.026	0.02	0.01	0.01	0.024	0.003	0.004	0.0014		0.41	385	540	25.5	0.71
115121060	15210878	MC345B	W18*55	12.192	13	13	0.17	0.29	1.26	0.033	0.023	0.01	0.01	0.01	0.023	0.002	0.003	0.0013		0.39	391	536	24.0	0.73
115121061	15404721	MC345B	W18*55	12.192	35	35	0.17	0.24	1.26	0.033	0.025	0.02	0.01	0.02	0.023	0.002	0.003	0.0016		0.39	402	543	24.5	0.74
115121053	15210879	MC345B	W18*65	12.192	24	28.392	0.18	0.23	1.03	0.032	0.025	0.02	0.01	0.01	0.017	0.002	0.004	0.0014		0.36	389	546	26.0	0.71
115121054	15210879	MC345B	W18*65	12.192	23	27.209	0.18	0.23	1.03	0.032	0.025	0.02	0.01	0.01	0.017	0.002	0.004	0.0014		0.36	378	538	25.5	0.70
115121043	15404419	MC345B	W18*76	12.192	12	16.536	0.16	0.30	1.29	0.028	0.019	0.02	0.01	0.01	0.022	0.002	0.003	0.0017		0.39	415	533	26.0	0.77
115121044	15310064	MC345B	W18*76	12.192	18	24.804	0.17	0.30	1.25	0.027	0.023	0.02	0.01	0.02	0.023	0.002	0.003	0.0016		0.39	413	533	25.5	0.77
115121045	15310064	MC345B	W18*76	12.192	24	33.072	0.17	0.30	1.25	0.027	0.023	0.02	0.01	0.02	0.023	0.002	0.003	0.0016		0.39	419	540	26.0	0.78
115121046	15210580	MC345B	W18*76	12.192	16	22.048	0.17	0.30	1.26	0.026	0.022	0.02	0.01	0.01	0.021	0.002	0.003	0.0024		0.39	412	531	26.0	0.78
115121047	15210580	MC345B	W18*76	12.192	14	19.292	0.17	0.30	1.26	0.026	0.022	0.02	0.01	0.01	0.021	0.002	0.003	0.0024		0.39	414	529	25.5	0.78
115121035	15404421	MC345B	W18*86	12.192	4	6.244	0.18	0.29	1.26	0.024	0.015	0.02	0.01	0.01	0.022	0.002	0.003	0.0016		0.40	415	561	24.0	0.73



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115121036	15310066	MC345B	W18*86	12.192	17	26.537	0.16	0.28	1.22	0.026	0.021	0.02	0.01	0.02	0.023	0.003	0.003	0.0017		0.37	376	515	24.0	0.73
115121031	15309988	MC345B	W18*97	12.192	3	5.268	0.16	0.30	1.19	0.028	0.025	0.01	0.01	0.01	0.038	0.002	0.002	0.0017		0.37	402	519	24.0	0.77
115121032	15309988	MC345B	W18*97	12.192	3	5.268	0.16	0.30	1.19	0.028	0.025	0.01	0.01	0.01	0.038	0.002	0.002	0.0017		0.37	370	471	24.5	0.79
115121033	15404337	MC345B	W18*97	12.192	12	21.072	0.16	0.29	1.22	0.024	0.020	0.02	0.01	0.01	0.035	0.002	0.003	0.0015		0.38	383	500	24.0	0.77
TOTAL:					2104	1144.344																		

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

Consignor:

Quality Control center Auditor:

