



MAANSHAN IRON AND STEEL CO., LTD.

CERTIFICATE OF PRODUCT QUALITY

Customer: TEWOO METAL (H.K.) LIMITED
Material description: HOT ROLLED STEEL H-BEAM.
Steel type: ALLOYED, HOT/COLD ROLLED NO ALLOYED, ETC
Specification: ASTM A6/A6M-2009 ASTM A572/A572M-2012
 ASTM A992/A992M-2011(B:0.0008%-0.0040%)

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.: 16MGE-B-9-100-1

安苏
 DATE: 2016-7-6

LOT No.	Heat No.	Steel Grade	Size (INCH)	Length (M)	Pieces	Theoretical Weight (MT)	Chemical Composition (%)														Mechanical Properties			
							C	Si	Mn	P	S	Cr	Ni	Cu	V	Mo	Nb	B	CEV	Sn	Yield Strength σ_s (Mpa)	Tensile Strength σ_b (Mpa)	Elongation δ 200 (%)	Yield Ratio
216061064	16402754	MC345B	W10*26	12.192	48	22.512	0.17	0.24	1.28	0.023	0.018	0.03	0.01	0.02	0.030	0.002	0.003	0.0014	0.40		366	523	33.0	0.70
216061065	16402755	MC345B	W10*26	12.192	21	9.849	0.16	0.22	1.19	0.022	0.019	0.04	0.01	0.01	0.018	0.002	0.001	0.0015	0.37		370	526	33.5	0.70
216061080	16105611	MC345B	W10*30	12.192	60	32.76	0.16	0.24	1.24	0.023	0.022	0.02	0.01	0.02	0.048	0.002	0.001	0.0012	0.38		413	564	36.0	0.73
216060051	16104914	MC345B	W12*26	12.192	60	28.32	0.15	0.19	1.22	0.027	0.012	0.02	0.01	0.02	0.021	0.002	0.001	0.0021	0.36		419	523	30.0	0.80
216060065	16104915	MC345B	W12*30	12.192	40	21.72	0.17	0.24	1.26	0.026	0.013	0.03	0.01	0.02	0.021	0.003	0.002	0.0015	0.39		418	560	36.0	0.75
216060066	16304711	MC345B	W12*30	12.192	40	21.72	0.17	0.21	1.26	0.022	0.014	0.02	0.01	0.02	0.019	0.002	0.000	0.0014	0.39		406	567	34.0	0.72
216060082	16104931	MC345B	W12*35	12.192	39	24.726	0.17	0.25	1.28	0.029	0.014	0.03	0.01	0.01	0.048	0.002	0.002	0.0017	0.40		437	582	35.0	0.75
216060083	16104931	MC345B	W12*35	12.192	27	17.118	0.17	0.25	1.28	0.029	0.014	0.03	0.01	0.01	0.048	0.002	0.002	0.0017	0.40		443	605	35.5	0.73
116060229	16304753	MC345B	W14*120	12.192	8	17.456	0.17	0.30	1.25	0.028	0.013	0.03	0.02	0.02	0.024	0.007	0.003	0.0013	0.39		416	578	28.0	0.72
116060230	16304753	MC345B	W14*120	12.192	11	24.002	0.17	0.30	1.25	0.028	0.013	0.03	0.02	0.02	0.024	0.007	0.003	0.0013	0.39		407	555	27.0	0.73
116060221	16104930	MC345B	W14*132	12.192	3	7.17	0.16	0.27	1.35	0.035	0.013	0.04	0.01	0.01	0.047	0.003	0.001	0.0013	0.40		411	558	26.0	0.74
116060222	16104930	MC345B	W14*132	12.192	9	21.51	0.16	0.27	1.35	0.035	0.013	0.04	0.01	0.01	0.047	0.003	0.001	0.0013	0.40		414	557	26.5	0.74
216060694	16304723	MC345B	W14*30	12.192	57	30.552	0.17	0.24	1.21	0.026	0.015	0.01	0.02	0.02	0.046	0.002	0.001	0.0011	0.39		429	581	33.0	0.74
216060695	16304723	MC345B	W14*30	12.192	60	32.16	0.17	0.24	1.21	0.026	0.015	0.01	0.02	0.02	0.046	0.002	0.001	0.0011	0.39		410	549	34.0	0.75
216060708	16402246	MC345B	W14*34	12.192	24	14.928	0.17	0.24	1.29	0.026	0.011	0.02	0.02	0.01	0.048	0.007	0.002	0.0016	0.40		432	604	30.0	0.72
216060709	16104931	MC345B	W14*34	12.192	10	6.22	0.17	0.25	1.28	0.029	0.014	0.03	0.01	0.01	0.048	0.002	0.002	0.0017	0.40		435	602	29.5	0.72
216060710	16304151	MC345B	W14*34	12.192	24	14.928	0.17	0.30	1.24	0.030	0.014	0.02	0.01	0.01	0.046	0.002	0.002	0.0014	0.39		420	544	30.0	0.77
116060256	16104955	MC345B	W14*90	12.192	1	1.634	0.15	0.32	1.32	0.021	0.014	0.02	0.04	0.02	0.021	0.007	0.002	0.0015	0.38		387	520	26.0	0.74
116060257	16402249	MC345B	W14*90	12.192	16	26.144	0.16	0.28	1.24	0.029	0.013	0.03	0.02	0.02	0.023	0.002	0.001	0.0014	0.38		397	529	24.5	0.75
116060258	16402249	MC345B	W14*90	12.192	7	11.438	0.16	0.28	1.24	0.029	0.013	0.03	0.02	0.02	0.023	0.002	0.001	0.0014	0.38		384	528	27.0	0.73



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LOT No.	Heat No.	Steel Grade	Size (INCH)	Length (M)	Pieces	Theoretical Weight (MT)	Chemical Composition (%)													Mechanical Properties				
							C	Si	Mn	P	S	Cr	Ni	Cu	V	Mo	Nb	B	CEV	Sn	Yield Strength σ_s (Mpa)	Tensile Strength σ_b (Mpa)	Elongation δ 200 (%)	Yield Ratio
116060249	16402249	MC345B	W14*99	12.192	21	37.632	0.16	0.28	1.24	0.029	0.013	0.03	0.02	0.02	0.023	0.002	0.001	0.0014	0.38		370	514	27.5	0.72
116060424	16304844	MC345B	W16*26	12.192	49	23.177	0.16	0.22	1.03	0.031	0.022	0.03	0.01	0.01	0.019	0.003	0.001	0.0011	0.34		373	493	21.5	0.76
116060425	16105066	MC345B	W16*26	12.192	7	3.311	0.15	0.22	1.04	0.030	0.021	0.10	0.01	0.01	0.017	0.004	0.001	0.0016	0.35		379	504	21.5	0.75
116060400	16204677	MC345B	W16*31	12.192	40	22.48	0.16	0.24	1.10	0.029	0.014	0.03	0.01	0.02	0.019	0.002	0.001	0.0014	0.36		370	495	25.0	0.75
116063400	16204677	MC345B	W16*31	12.192	8	4.496	0.16	0.24	1.10	0.029	0.014	0.03	0.01	0.02	0.019	0.002	0.001	0.0014	0.36		367	495	25.0	0.74
116060380	16105037	MC345B	W16*36	12.192	2	1.292	0.16	0.27	1.30	0.031	0.022	0.03	0.01	0.02	0.026	0.002	0.001	0.0016	0.39		374	503	22.5	0.74
116060381	16204671	MC345B	W16*36	12.192	16	10.336	0.16	0.24	1.07	0.025	0.022	0.02	0.01	0.02	0.021	0.002	0.002	0.0012	0.35		370	500	22.5	0.74
116060382	16204671	MC345B	W16*36	12.192	22	14.212	0.16	0.24	1.07	0.025	0.022	0.02	0.01	0.02	0.021	0.002	0.002	0.0012	0.35		377	509	23.5	0.74
116060383	16204672	MC345B	W16*36	12.192	32	20.672	0.16	0.22	1.07	0.026	0.017	0.03	0.01	0.02	0.019	0.002	0.001	0.0012	0.35		369	506	24.5	0.73
116060348	16204660	MC345B	W16*40	12.192	22	16.104	0.17	0.29	1.27	0.024	0.017	0.03	0.01	0.01	0.023	0.003	0.002	0.0013	0.39		416	518	25.0	0.80
116060349	16204660	MC345B	W16*40	12.192	38	27.816	0.17	0.29	1.27	0.024	0.017	0.03	0.01	0.01	0.023	0.003	0.002	0.0013	0.39		405	524	25.0	0.77
116060351	16105021	MC345B	W16*40	12.192	1	0.732	0.17	0.32	1.27	0.024	0.023	0.02	0.01	0.01	0.023	0.003	0.002	0.0014	0.39		401	520	26.0	0.77
116060353	16105022	MC345B	W16*40	12.192	5	3.66	0.17	0.28	1.27	0.023	0.019	0.02	0.01	0.01	0.023	0.003	0.002	0.0013	0.39		417	519	26.0	0.80
116060333	16304820	MC345B	W16*45	12.192	12	9.804	0.17	0.30	1.28	0.032	0.017	0.02	0.01	0.01	0.025	0.002	0.002	0.0014	0.39		374	530	22.5	0.71
116060334	16304820	MC345B	W16*45	12.192	6	4.902	0.17	0.30	1.28	0.032	0.017	0.02	0.01	0.01	0.025	0.002	0.002	0.0014	0.39		372	524	23.0	0.71
116060335	16105020	MC345B	W16*45	12.192	15	12.255	0.16	0.31	1.31	0.024	0.017	0.02	0.01	0.02	0.026	0.005	0.002	0.0013	0.39		373	523	22.5	0.71
116060317	16304818	MC345B	W16*50	12.192	12	10.968	0.19	0.31	1.30	0.029	0.014	0.02	0.01	0.02	0.025	0.003	0.002	0.0017	0.42		388	517	27.0	0.75
116060318	16105017	MC345B	W16*50	12.192	26	23.764	0.15	0.34	1.29	0.030	0.017	0.02	0.01	0.01	0.024	0.003	0.003	0.0012	0.38		386	534	25.5	0.72
116060319	16105017	MC345B	W16*50	12.192	4	3.656	0.15	0.34	1.29	0.030	0.017	0.02	0.01	0.01	0.024	0.003	0.003	0.0012	0.38		408	529	26.0	0.77
116060304	16105015	MC345B	W16*67	12.192	28	29.008	0.17	0.31	1.24	0.029	0.022	0.02	0.01	0.01	0.022	0.003	0.001	0.0013	0.39		412	578	26.0	0.71



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216060905	16104389	MC345B	W8*10	12.192	174	31.842	0.17	0.22	0.99	0.027	0.014	0.03	0.01	0.02	0.018	0.003	0.002	0.0011	0.35		352	489	28.0	0.72
216060906	16104389	MC345B	W8*10	12.192	125	22.875	0.17	0.22	0.99	0.027	0.014	0.03	0.01	0.02	0.018	0.003	0.002	0.0011	0.35		376	514	28.5	0.73
216060925	16105615	MC345B	W8*13	12.192	112	26.32	0.16	0.27	1.22	0.030	0.019	0.04	0.01	0.02	0.024	0.002	0.002	0.0012	0.38		410	538	30.0	0.76
216060926	16105615	MC345B	W8*13	12.192	86	20.21	0.16	0.27	1.22	0.030	0.019	0.04	0.01	0.02	0.024	0.002	0.002	0.0012	0.38		396	533	30.5	0.74
216060927	16305356	MC345B	W8*13	12.192	54	12.69	0.17	0.23	1.04	0.025	0.018	0.03	0.01	0.01	0.018	0.002	0.002	0.0010	0.35		408	536	31.5	0.76
116061893	16105097	MC345B	W10*49	12.192	16	14.24	0.18	0.30	1.25	0.025	0.024	0.04	0.02	0.03	0.023	0.005	0.002	0.0014	0.41		378	514	25.0	0.740
116061894	16105096	MC345B	W10*49	12.192	24	21.36	0.18	0.33	1.29	0.030	0.020	0.04	0.01	0.03	0.023	0.005	0.002	0.0016	0.41		388	520	24.5	0.720
116061883	16105097	MC345B	W10*54	12.192	24	23.4	0.18	0.30	1.25	0.025	0.024	0.04	0.02	0.03	0.023	0.005	0.002	0.0014	0.41		371	523	24.5	0.710
116061884	16402283	MC345B	W10*54	12.192	8	7.8	0.17	0.29	1.26	0.022	0.014	0.02	0.01	0.02	0.021	0.004	0.002	0.0013	0.39		364	511	24.0	0.710
116061868	16402283	MC345B	W10*60	12.192	26	28.21	0.17	0.29	1.26	0.022	0.014	0.02	0.01	0.02	0.021	0.004	0.002	0.0013	0.39		352	503	22.5	0.740
116061859	16402283	MC345B	W10*68	12.192	12	14.772	0.17	0.29	1.26	0.022	0.014	0.02	0.01	0.02	0.021	0.004	0.002	0.0013	0.39		411	550	20.5	0.750
116061860	16402284	MC345B	W10*68	12.192	18	22.158	0.17	0.29	1.27	0.025	0.017	0.03	0.01	0.03	0.050	0.004	0.002	0.0018	0.40		416	555	20.0	0.750
116061487	16402701	MC345B	W12*65	12.192	6	7.098	0.17	0.30	1.25	0.022	0.020	0.01	0.01	0.01	0.023	0.001	0.002	0.0014	0.39		370	529	28.5	0.700
116061488	16402701	MC345B	W12*65	12.192	20	23.66	0.17	0.30	1.25	0.022	0.020	0.01	0.01	0.01	0.023	0.001	0.002	0.0014	0.39		395	531	29.0	0.740
116061467	16104290	MC345B	W12*79	12.192	6	8.556	0.17	0.31	1.28	0.025	0.015	0.03	0.01	0.01	0.021	0.003	0.002	0.0020	0.40		358	547	25.5	0.650
116061468	16104291	MC345B	W12*79	12.192	6	8.556	0.17	0.29	1.29	0.030	0.016	0.03	0.01	0.01	0.022	0.004	0.002	0.0016	0.40		362	558	26.5	0.650
116061469	16305278	MC345B	W12*79	12.192	6	8.556	0.16	0.30	1.28	0.024	0.021	0.01	0.00	0.01	0.021	0.001	0.001	0.0013	0.38		394	536	26.0	0.580
116061454	16105535	MC345B	W12*87	12.192	15	23.595	0.18	0.29	1.26	0.021	0.013	0.02	0.01	0.01	0.037	0.002	0.002	0.0012	0.40		416	553	27.0	0.750
116060664	16304724	MC345B	W18*106	12.192	14	26.964	0.18	0.27	1.30	0.028	0.012	0.03	0.01	0.02	0.037	0.002	0.001	0.0013	0.41		402	525	25.5	0.770
116060748	16304845	MC345B	W18*35	12.192	32	20.288	0.18	0.23	1.09	0.033	0.024	0.03	0.01	0.01	0.020	0.002	0.002	0.0013	0.37		369	512	26.0	0.720



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116060749	16204699	MC345B	W18*35	12.192	19	12.046	0.16	0.24	1.04	0.024	0.020	0.03	0.01	0.03	0.017	0.002	0.001	0.0011	0.35		371	515	26.0	0.720
116060739	16204730	MC345B	W18*40	12.192	18	13.176	0.18	0.30	1.26	0.029	0.017	0.03	0.01	0.02	0.022	0.005	0.002	0.0014	0.40		382	536	23.5	0.710
116060740	16204730	MC345B	W18*40	12.192	36	26.352	0.18	0.30	1.26	0.029	0.017	0.03	0.01	0.02	0.022	0.005	0.002	0.0014	0.40		375	531	23.0	0.710
116060731	16304874	MC345B	W18*46	12.192	16	13.264	0.18	0.29	1.26	0.030	0.018	0.04	0.01	0.03	0.025	0.004	0.002	0.0013	0.41		385	530	24.5	0.730
116060732	16105093	MC345B	W18*46	12.192	24	19.896	0.16	0.28	1.20	0.031	0.024	0.03	0.01	0.03	0.020	0.003	0.001	0.0015	0.37		394	523	25.5	0.750
116060716	16304875	MC345B	W18*50	12.192	2	1.804	0.15	0.23	1.21	0.026	0.018	0.03	0.01	0.02	0.026	0.004	0.002	0.0020	0.37		358	509	26.0	0.703
116060717	16304874	MC345B	W18*50	12.192	32	28.864	0.18	0.29	1.26	0.030	0.018	0.04	0.01	0.03	0.025	0.004	0.002	0.0013	0.41		367	519	25.0	0.707
116060718	16304874	MC345B	W18*50	12.192	21	18.942	0.18	0.29	1.26	0.030	0.018	0.04	0.01	0.03	0.025	0.004	0.002	0.0013	0.41		369	530	25.0	0.696
116060701	16105096	MC345B	W18*60	12.192	6	6.51	0.18	0.33	1.29	0.030	0.020	0.04	0.01	0.03	0.023	0.005	0.002	0.0016	0.41		369	533	26.5	0.690
116060702	16204733	MC345B	W18*60	12.192	9	9.765	0.17	0.30	1.28	0.030	0.019	0.07	0.01	0.03	0.023	0.007	0.002	0.0014	0.41		391	533	26.5	0.730
116060703	16204733	MC345B	W18*60	12.192	19	20.615	0.17	0.30	1.28	0.030	0.019	0.07	0.01	0.03	0.023	0.007	0.002	0.0014	0.41		412	533	26.5	0.770
116060696	16105023	MC345B	W18*65	12.192	6	7.098	0.17	0.30	1.33	0.023	0.019	0.03	0.01	0.01	0.023	0.004	0.002	0.0013	0.40		394	526	26.5	0.750
116060697	16105096	MC345B	W18*65	12.192	30	35.49	0.18	0.33	1.29	0.030	0.020	0.04	0.01	0.03	0.023	0.005	0.002	0.0016	0.41		408	522	27.0	0.780
116060692	16105023	MC345B	W18*71	12.192	20	25.6	0.17	0.30	1.33	0.023	0.019	0.03	0.01	0.01	0.023	0.004	0.002	0.0013	0.40		385	524	26.0	0.730
116060693	16105023	MC345B	W18*71	12.192	1	1.28	0.17	0.30	1.33	0.023	0.019	0.03	0.01	0.01	0.023	0.004	0.002	0.0013	0.40		394	530	27.0	0.740
116060683	16304752	MC345B	W18*76	12.192	8	11.024	0.18	0.30	1.26	0.029	0.013	0.04	0.03	0.02	0.023	0.008	0.002	0.0014	0.41		419	560	24.5	0.750
116060684	16104961	MC345B	W18*76	12.192	15	20.67	0.17	0.28	1.27	0.032	0.012	0.06	0.01	0.02	0.036	0.004	0.002	0.0014	0.40		423	563	24.5	0.750
116060670	16304724	MC345B	W18*97	12.192	8	14.048	0.18	0.27	1.30	0.028	0.012	0.03	0.01	0.02	0.037	0.002	0.001	0.0013	0.41		416	543	27.5	0.770
116060671	16104962	MC345B	W18*97	12.192	8	14.048	0.17	0.38	1.37	0.026	0.016	0.04	0.03	0.01	0.040	0.005	0.002	0.0014	0.42		413	537	24.5	0.770
116060672	16104962	MC345B	W18*97	12.192	8	14.048	0.17	0.38	1.37	0.026	0.016	0.04	0.03	0.01	0.040	0.005	0.002	0.0014	0.42		415	541	24.5	0.770



MAANSHAN IRON AND STEEL CO., LTD.

CERTIFICATE OF PRODUCT QUALITY

Customer: TEWOO METAL (H.K.) LIMITED

Material description: HOT ROLLED STEEL H-BEAM.

Steel type: ALLOYED, HOT/COLD ROLLED NO ALLOYED, ETC

Specification: ASTM A6/A6M-2009 ASTM A572/A572M-2012
ASTM A992/A992M-2011(B:0.0008%-0.0040%)

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.: 16MGE-B-9-100-1

DATE: 2016-7-6

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	CEV	Sn	Yield Strength σ_s (Mpa)	Tensile Strength σ_b (Mpa)	Elongation δ_{200} (%)	
116061503	16402698	MC345B	W24*131	12.192	14	33.278	0.16	0.29	1.22	0.024	0.018	0.02	0.00	0.01	0.047	0.001	0.001	0.0012	0.38		392	537	27.0	0.730
116061534	16305280	MC345B	W24*84	12.192	23	35.052	0.17	0.28	1.24	0.024	0.016	0.02	0.00	0.01	0.022	0.001	0.002	0.0013	0.39		386	519	24.5	0.740
TOTAL:					2058	1423.164																		

<NOTE> STEEL GRADE IS BASED ON THIS CERTIFICATE.

Consignor:

Quality Control center Auditor:

