MILL'S QUALITY CERTIFICATES

SeAH Steel Corp.
(주)세아제강

HEAD OFFICE ; BONGNAE-DONG 1GA, JUNG-GU, SEOUL, KOREA
POHANG PLANT ; 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

증명서번호 / CERTIFICATE NO. : E200709-0080-002316(5001666)
제 품 명 / COMMODITY : E.R.W STEEL PIPE
제 품 규 격 / SPECIFICATION : ASTM A500 B(2003A)

발 급 일 자 / DATE OF ISSUE : 2007.09.21
계 약 서 번 호 / L/C No. (P/O No.) : PLESA
수 요 가 / CUSTOMER : DUFERCO SA
주 문 자 / SHIPPER : SEAH STEEL CORPORATION

NO.	HEAT NO. (BATCH NO.)	관 단 TYPE *1	주 문 치 수 ORDER SIZE	수 량 QUANTITY 본 수 PCS	총 길 이 TOTAL LENGTH	중량(M/T) WEIGHT	비 고 REMARK
1	SB74856 (SHH6251010)	BME	12" X 12" X 0.500 " X 40.000 FT	4	160.000 FT	5.521	
2	C634381 (SHH6251030)	BME	12" X 12" X 0.500 " X 40.000 FT	7	280.000 FT	9.661	
3	SB74856 (SHH6251050)	BME	12" X 12" X 0.313 " X 40.000 FT	14	560.000 FT	12.213	
4	SB74427 (SHH6251060)	BME	12" X 12" X 0.313 " X 40.000 FT	5	200.000 FT	4.362	

ORIGINAL

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST Sec.	HYDROSTATIC TEST RESULT	N·D·T *2	VISUAL & DIMENSION	FLATTENING	SHOCK	COMPRESSION	RESIDUAL MAGNETISM GAUSS	BENDING *3	DRIFT	CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST WEIGHT OF ZINC COAT-ING	균열성 C.S *4	알칼리 ALK *5	DESIG *6	C	Si	Mn	P	S					CEQ *8	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENERGY Joule	SHEAR AREA %	HARDNESS TEST	HEAT TREAT MENT *11	PROTECTIVE COATING & LINING THICKNESS	P.H
																				CHEMICAL COMPOSITION(%) 2			3							*7										
기준 SPEC																			MAX	30			45	45																
																			MIN													58000	46000	23						
1	SB74856				G														H	18	3	86	10	9																
	(SHH6251010)																		P	17	3	86	10	7							L	73530	48070	31						
																			P	17	4	86	11	7																
2	C634381				G														H	16	2	79	13	7																
	(SHH6251030)																		P	15	2	78	11	7							L	70120	48780	31						
																			P	15	2	79	14	6																
3	SB74856				G														H	18	3	86	10	9																
	(SHH6251050)																		P	17	2	85	11	7							L	75520	50630	26						
																			P	18	3	86	10	11																
4	SB74427				G														H	17	1	74	10	7																
	(SHH6251060)																		P	16	1	74	10	5							L	73390	52050	27						
																			P	16	TR	74	8	6																

NOTE: *1 ~ *12 : Refer To The Attached Section Designation

OTHER

Surveyor :

- WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTABLE.
- THE USE OF THE MATERIAL OUTSIDE THE SPECIFICATIONS INDICATED ON THIS CERTIFICATE MAY CAUSE SAFETY AND/OR MONETARY PROBLEMS. FURTHERMORE, ANY ORGANIZATION OR PERSON(S) WHO DELIBERATELY MODIFIES THE CERTIFICATE WILL BE PROSECUTED FOR FORGING AN OFFICIAL DOCUMENT (ACCORDING TO THE PROVISIONS OF THE CRIMINAL CODE 231)

Manager of Q.M Dept.

J. E. KIM

주식회사세아제강 포항강재품질경영팀장인 SeAH