PAGE : 2 / 3

MILL'S QUALITY CERTIFICATES

SeAH SeAH Steel Corp.

(주)세 아 제 강

HEAD OFFICE ; BONGNAE-DONG 1GA, JUNG-GU, SEOUL, KOREA

POHANG PLANT ; 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

증명서번호
CERTIFICATE NO.: E200709-0076-002312(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 : 2007.08.31

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
5	SB74427 (SHH6251060)	BME	12" X 12" X 0.313 " X 40.000 FT	22	880.000 FT	19.193	ORIGINAL
6	SB74973 (SHH6252050)	BME	12" X 12" X 0.250 " X 40.000 FT	32	1,280.000 FT	22.899	
7	B626339 (SHH6252070)	BME	12" X 12" X 0.250 " X 40.000 FT	33	1,320.000 FT	23.615	
8	SQ11058 (SHH6262020)	BME	14" X 14" X 0.375 " X 40.000 FT	12	480.000 FT	14.885	

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	규열상 C.S *4	알칼리 ALK *5	CHEMICAL COMPOSITION(%) DESIG *6	C	Si	Mn	P	S	CEQ *8	TENSILE TEST (Gage Length : 50mm) DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENERGY Joule	IMPACT TEST (℃) SHEAR AREA %	HARDNESS TEST	HEAT TREATMENT *11	PROTECTIVE COATING & LINING THICKNESS	PROTECTIVE COATING & LINING P.H
																				2			3												
기준 SPEC																			MAX	30			45	45			58000	46000	23						
																			MIN																
5	SB74427 (SHH6251060)				G														H	17	1	74	10	7											
																			P	16	1	74	10	5		L	73390	52050	27						
																			P	16	TR	74	8	6											
6	SB74973 (SHH6252050)				G														H	16	2	70	15	4											
																			P	15	3	70	13	5		L	71400	50200	25						
																			P	16	1	69	15	3											
7	B626339 (SHH6252070)				G														H	13	1	62	16	7											
																			P	13	2	63	14	6		L	68980	52050	28						
																			P	12	2	61	16	6											
8	SQ11058 (SHH6262020)				G														H	18	1	77	14	6											
																			P	17	1	76	12	8		L	72820	47220	27						
																			P	19	2	77	12	8											

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 포항공장품질관리팀