MILL'S QUALITY CERTIFICATES

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.: E200812-0057-002874(5003628)

제 품 명
COMMODITY : E.R.W STEEL PIPE

제 품 규 격
SPECIFICATION : API 5L B(PSL1)/ASTM A53B

발 급 일 자
DATE OF ISSUE : 2008.12.12

계 약 서 번 호
L/C No. (P/O No.) : 47LI-C80768-TCTT(1103066336)

수 요 가
CUSTOMER : PLESA

주 문 자
SHIPPER : DUFERCO SA

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
49	C837028 (SIIZ032070)	BBE	20 " X 0.250 " X 6.120 M	84	514.080 M	40.695	CONFIRM TO NACE NORM MR0175(LAST EDITION)
50	C836164 (SIIZ091070)	BBE	14 " X 0.250 " X 6.120 M	12	73.440 M	4.047	*ERW: CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY
51	C836163 (SIIZ092010)	BBE	14 " X 0.250 " X 6.120 M	55	336.600 M	18.550	*DSAW:CHEMICAL COMPOSITION AND HARDNESS ONLY
52	C836164 (SIIZ092020)	BBE	14 " X 0.250 " X 6.120 M	63	385.560 M	21.248	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 5 Sec. psi	RESULT	N·D·T U *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	균일성 C.S *4	알칼리 ALK *5	DESIG *6	C	Si	Mn	P	S	CU	NI	CR	MO	V	CEQ	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENE-RGY Joule	SHEAR AREA %	HARD-NESS TEST	HEAT TREAT MENT SN *11	PROTECTIVE COATING & LINING THICK-NESS	P.H
																				*7										*8										
기준 SPEC									30										MAX	26		120	30	30	40	40	40	15	80											
																			MIN													60000	35000							
49	C837028	530	G	G	G	G			G										H	16	1	76	14	9																
	(SIIZ032070)																		P	15	TR	76	13	8	1	2	1	1	1		T	72390	53620	39				G		
																			P	17	2	75	15	7	1	1	1	1	1		W	75121								
50	C836164	750	G	G	G	G			G										H	17	2	77	15	10																
	(SIIZ091070)																		P	16	3	76	13	9	1	1	1	1	2		T	71400	52200	37				G		
																			P	17	2	76	13	8	1	1	1	1	1		W	75250								
51	C836163	750	G	G	G	G			G										H	16	2	80	12	9																
	(SIIZ092010)																		P	15	1	79	12	9	2	1	1	TR	1		T	74950	53190	39				G		
																			P	16	3	81	11	11	1	1	1	1	1		W	75810								
52	C836164	750	G	G	G	G			G										H	17	2	77	15	10																
	(SIIZ092020)																		P	18	3	78	17	9	1	1	1	1	1		T	71970	50770	38				G		
																			P	16	3	77	13	12	1	1	1	1	1		W	73250								

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.

N. J. Baek