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MILL'S QUALITY CERTIFICATE

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. : E200701-0393-000393(5000987)
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 : 2007.01.19
계 약 서 번 호 L/C No. (P/O No.) : 1103044853
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
21	SB62790 (SHH1081050)	BME	16" X 8" X 0.375 " X 40.000 FT	24	960.000 FT	25.315	
22	310167A (SHH1091010)	BME	16" X 16" X 0.500 " X 40.000 FT	7	280.000 FT	13.120	
23	310183B (SHH1091020)	BME	16" X 16" X 0.500 " X 40.000 FT	12	480.000 FT	22.491	
24	110890A (SHH1091040)	BME	16" X 16" X 0.500 " X 40.000 FT	13	520.000 FT	24.365	

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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	질량법 C.S *4	질량법 ALK *5	DESIG *6	C	Si	Mn	P	S							CEQ *8	DIR *9	TENSILE TEST (Gage Length : 50mm) TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENE-RGY Joule	SHEAR AREA %	HARD-NESS TEST	HEAT TREAT MENT *11	PROTECTIVE COATING & LINING THICK-NESS	P.H
																				2			3																		
기준 SPEC																			MAX	30			45	45										58000	46000	23						
																			MIN																						
21	SB62790 (SHH1081050)				G														H	18	1	79	16	5																	
																			P	19	1	81	18	4									L	77510	51630	26						
																			P	17	TR	80	15	4																	
22	310167A (SHH1091010)				G														H	19	9	21	8	8																	
																			P	18	10	20	7	7									L	66700	48660	35						
																			P	19	10	21	10	10																	
23	310183B (SHH1091020)				G														H	17	8	23	20	5																	
																			P	16	9	23	19	4									L	65280	49070	33.5						
																			P	18	7	22	20	7																	
24	110890A (SHH1091040)				G														H	20	4	23	15	7																	
																			P	20	5	23	17	8									L	68130	50920	35						
																			P	19	4	24	17	6																	

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

OTHER

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Surveyor

- WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE 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 INTENTIONALLY DISTRIBUTE THE CERTIFICATE WILL BE PROSECUTED FOR FORGING AN OFFICIAL DOCUMENT. (ACCORDING TO THE PROVISIONS OF THE CRIMINAL CODE 231)

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Manager of Q.M Dept.

J. E. KIM