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MILL'S QUALITY CERTIFICATE

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. : 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
25	110887B (SHH1091050)	BME	16" X 16" X 0.500 " X 40.000 FT	14	560.000 FT	26.239	
26	310178B (SHH1091060)	BME	16" X 16" X 0.500 " X 40.000 FT	14	560.000 FT	26.239	
27	309567B (SHH1091070)	BME	16" X 16" X 0.500 " X 40.000 FT	14	560.000 FT	26.239	
28	110021A (SHH1091080)	BME	16" X 16" X 0.500 " X 40.000 FT	15	600.000 FT	28.114	

COPY

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	ZINC COATING TEST 규일정 C.S *4	ZINC COATING TEST 알칼리 ALK *5	DESIG *6	CHEMICAL COMPOSITION(%) 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	IMPACT TEST (℃) SHEAR AREA %	HARD-NESS TEST	HEAT TREAT MENT *11	PROTECTIVE COATING & LINING THICK-NESS	PROTECTIVE COATING & LINING P.H
																				2			3												
기준 SPEC																			MAX	30			45	45											
																			MIN								58000	46000	23						
25	110887B (SHH1091050)				G														H	20	5	23	14	8											
																			P	20	4	23	16	9		L	67560	49920	33						
																			P	20	5	23	13	7											
26	310178B (SHH1091060)				G														H	20	7	22	10	6											
																			P	19	6	21	12	5		L	67700	47930	33.5						
																			P	19	6	23	11	7											
27	309567B (SHH1091070)				G														H	20	8	22	9	9											
																			P	19	9	23	8	10		L	70260	49920	35						
																			P	21	9	23	11	11											
28	110021A (SHH1091080)				G														H	19	9	22	16	6											
																			P	19	10	21	14	6		L	68840	48500	34.5						
																			P	20	10	23	15	5											

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