MILL'S QUALITY CERTIFICATE

SěAH 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

발 급 일 자 DATE OF ISSUE	: 2007.03.30
계 약 서 번 호 L/C No. (P/O No.)	: 47LI-B82946-TLJY(1103049204)
수 요 가 CUSTOMER	: DUFERCO SA
주 문 자 SHIPPER	: SEAH STEEL CORPORATION

	수 량 QUANTITY 본 수 PCS	총 길 이 TOTAL LENGTH	중량(M/T) WEIGHT	비 고 REMARK
X 6.120 M	37	226.440 M	18.036	* DESCRIPTIION OF GOODS : 1,408.552MT (+/- 10 PCT) CARBON STEEL PIPES WELDED / ASTM A53 B
X 6.120 M	82	501.840 M	47.324	* STEEL GRADE : ASTM A53 B
X 6.120 M	58	354.960 M	38.119	
X 6.120 M	68	416.160 M	20.854	

CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST: WEIGHT OF ZINC COAT-ING	균일성 C.S *4	알칼리 ALK *5	CHEMICAL COMPOSITION(%): DESIG *6	C	Si	Mn	P	S	CU	NI	CR	MO	V	CEQ	TENSILE TEST (Gage Length : 50mm): 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
								2			3		2	2	2	2	3											
								*7										*8										
							MAX	26		120	30	30	40	40	40	15	80											
							MIN													60000	35000							
							H	17	2	86	16	7																
							P	16	2	86	17	7	1	1	1	TR	1		T	74380	49350	40				G		
							P	18	2	86	18	9	TR	1	2	TR	1		W	74957								
							H	16	18	44	20	4																
							P	15	17	43	21	4	1	1	1	1	1		T	68840	49490	44				G		
							P	15	18	43	18	2	1	1	1	1	1		W	69694								
							H	17	1	77	14	9																
							P	16	2	76	16	8	TR	1	1	TR	1		T	73100	49070	39				G		
							P	16	TR	78	13	8	TR	1	1	1	1		W	73819								
							H	16	1	64	13	6																
							P	17	TR	65	14	8	1	1	1	TR	1		T	74670	52620	31				G		
							P	15	TR	65	13	5	1	1	1	TR	1		W	73535								

COPY

T THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE
RESULTS OF ALL TEST ARE ACCEPTABLE.
L OUTSIDE THE SPECIFICATIONS INDICATED ON THIS CERTIFICATE MAY CAUSE SAFETY
EMS. FURTHERMORE, ANY ORGANIZATION OR PERSON(S) WHO DELIBERATELY MODIFIES
BE PROSECUTED FOR FORGING AN OFFICIAL DOCUMENT
VISIONS OF THE CRIMINAL CODE 231)

Manager of Q.M Dept.

J. E. KIM

주식회사세아제강 SěAH 포항공장품질경영팀장