

PAGE : 1 / 1
 증명서번호
 CERTIFICATE NO. : E201006-0254-001457(5005233)
 제품명
 COMMODITY : E.R.W STEEL PIPE
 제품규격
 SPECIFICATION : API 5LB PSL1/ASTM A53B(2007)

MILL'S QUALITY
 CERTIFICATE
SeAH SeAH Steel Corp.
 (주)세아제강

HEAD OFFICE : BONGNAE-DONG 1GA, JUNG-GU, SEOUL, KOREA
 POHANG PLANT : 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

발급일자
 DATE OF ISSUE : 2010.06.15
 계약서번호
 L/C No. (P/O No.) : 1103077092
 수요가
 CUSTOMER : PLESA
 주문자
 SHIPPER : DUFERCO SA

NO.	HEAT NO. (BATCH NO.)	관단 TYPE *1	주문치수 ORDER SIZE			수량 QUANTITY			비고 REMARK
			본수 PCS	총길이 TOTAL LENGTH	중량(M/T) WEIGHT				
1	SQ05407 (SIK5291110)	BBE	24 "	X 0.250 "	X 6.120 M	9	55.080 M	5.247	CONFIRM TO NACE NORM MRO175(LAST EDITION) *ERW: CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY *DSAW: CHEMICAL COMPOSITION AND HARDNESS ONLY
2	SQ05410 (SIK5292040)	BBE	24 "	X 0.250 "	X 6.120 M	118	722.160 M	68.793	

NO.	HEAT NO. (BATCH NO.)	HYDROSTATIC TEST		N D T U *2	V D I M E N S I O N & O N	F L A T T E N I N G	S H O C K	C O M P R E S S I O N	R E A G N D I T I S M G A U S S *3	B E N D I N G	D R I F T	C R U S H	F L A R I N G	F L A N G E	R E V E R S E N I N G	ZINC COATING TEST			CHEMICAL COMPOSITION(%)											TENSILE TEST (Gage Length : 50mm)			IMPACT TEST (°C)		HARD- NESS TEST	HEAT TREATMENT				
		WEIGHT OF ZINC COATING	C.S													ALK	DESIGN	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	CEQ	D I R	TENSILE STRENGTH	YIELD STRENGTH	E.L			ENE- RGY	SHEAR AREA	HRC	SN
		기준 SPEC	10 Sec.													RESULT	psi	30	MAX	MIN	26	14	1	70	12	6	13	TR	6	12	4	1	TR	TR			TR	1	2	2
1	-SQ05407 (SIK5291110)	450	G	G	G	G	G	G	G	H	14	1	70	12	6	13	TR	6	12	4	1	TR	TR	TR	1	2	2	25	T	71250	53900	30			8	G				
2	SQ05410 (SIK5292040)	450	G	G	G	G	G	G	G	H	15	1	72	11	5	14	TR	7	11	7	1	TR	TR	TR	1	2	2	25	W	74680					7	G				
										H	15	1	72	11	5	14	TR	7	11	7	1	TR	TR	TR	1	2	2	27	T	71680	50350	33			7	G				
										P	14	TR	72	10	3	15	TR	7	13	7	TR	2	2	TR	1	TR	2	27	W	75690										

ORIGINAL

OTHERS
 *1~*11: Refer To Others
 *1-BBE:Black Beveled End(30°)
 *2-U:Weld Seam Ultrasonic Test
 *6-H:Heat(Ladle) Analysis, P:Product Analysis *7-2:X100, 3:X1000 *8-C2:C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15
 *9-T:Base Metal Transverse, W:Weld Part Transverse *10-E.L:Elongation *11-S.N:Seam Normalizing *G:GOOD *Tr:Trace

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

