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증명서번호
 CERTIFICATE NO.: E201004-0124-000852(5005298)

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
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계약서번호
 L/C No. (P/O No.) : 1103077721

수요가
 CUSTOMER : PLESA

주문자
 SHIPPER : DUFERCO SA

NO.	HEAT NO. (BATCH NO.)	관단 TYPE	주문치수 ORDER SIZE			수량 QUANTITY			비고 REMARK
						본수 PCS	총길이 TOTAL LENGTH	중량(M/T) WEIGHT	
1	SB68774 (SHK4072020)	BBE	12 "	X 0.225 "	X 6.120 M	74	452.880 M	20.258	CONFIRM TO NACE NORM MRO175(LAST EDITION) *ERW: CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY *DSAW: CHEMICAL COMPOSITION AND HARDNESS ONLY
2	SB68774 (SHK4081010)	BBE	12 "	X 0.225 "	X 6.120 M	74	452.880 M	20.257	
3	SB68771 (SHK4081020)	BBE	12 "	X 0.225 "	X 6.120 M	692	4,235.040 M	189.434	
4	SQ98049 (SHK4081030)	BBE	12 "	X 0.225 "	X 6.120 M	74	452.880 M	20.257	

NO.	HEAT NO. (BATCH NO.)	HYDROSTATIC TEST		N-D-T RESULTS *2	VDI SIMENSION & ON	FLATTENING	SHOCK	COMPRESSION	REAGNEMENT GAUSS	BENDING	DRIFT	CRUSH	FLARING	FLANGE	FLATTENING	ZINC COATING TEST	CHEMICAL COMPOSITION(%)														TENSILE TEST (Gage Length : 50mm)			IMPACT TEST (°C)		HARD- NESS TEST	HEAT TREATMENT		
		5 Sec.	psi														C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	CEQ	DIR	TENSILE STRENGTH	YIELD STRENGTH	E.L	ENE-RGY	SHEAR AREA			HRC	SN
		*4	*5														*6	*7														*8	*9	psi	psi			%	Joule
기준 SPEC									30							MAX MIN	26		120	30	30	40	40	40	15	80				60200	35500				22				
1	SB68774 (SHK4072020)	750	G	G	G	G			G							H P P	15 14 14	1 1 TR	65 64 66	14 12 7	9 10 TR		2 2 2	1 1 1	TR TR TR	1 1 1	TR TR TR				T W W	65840 73960	51770	34			7	G	
2	SB68774 (SHK4081010)	750	G	G	G	G			G							H P P	15 14 14	1 1 TR	65 64 66	14 12 8	9 10 8	1 1 1	1 1 1	TR TR TR	1 1 1	TR TR TR				T W W	67870 76430	49600	33			7	G		
3	SB68771 (SHK4081020)	750	G	G	G	G			G							H P P	15 14 14	1 TR 2	70 69 70	20 18 20	9 8 11	1 TR TR	1 TR TR	1 1 1	2 2 2	2 2 2				T W W	70050 77010	56710	32			8	G		
4	SQ98049 (SHK4081030)	750	G	G	G	G			G							H P P	13 12 13	1 2 1	67 66 68	11 11 12	4 5 3	1 TR 1	TR TR TR	1 1 1	1 1 1				T W W	70630 77740	52640	32			8	G			

NOTE

*1 ~ *11: Refer To Others

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
 *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

