PAGE :

증명서번호
CERTIFICATE NO.: E200810-0060-002294(5003046)

제 품 명
COMMODITY : E.R.W STEEL PIPE

제 품 규 격
SPECIFICATION : API 5LX42 PSL1/5LB(43rd)/ASTM A53B(2007)/ASME SA53B(2007)

INSPECTION 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

발 급 일 자
DATE OF ISSUE : 2008.10.06

계 약 서 번 호
L/C No. (P/O No.) : 082-H833(90528)

수 요 가
CUSTOMER : TEXAS PIPE & SUPPLY

주 문 자
SHIPPER : SEAH STEEL AMERICA,INC.

NO.	HEAT NO. (BATCH NO.)	판단 TYPE *1	주문치수 ORDER SIZE			수량 QUANTITY 본수 PCS	총길이 TOTAL LENGTH	중량(M/T) WEIGHT	비고 REMARK
1	C815116 (SII9302120)	BBE	24 "	X 0.375 "	X 42.000 FT	49	2,058.000 FT	88.412	CONFIRM TO NACE MR 0175 & MR 0103 *ERW : CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY *DSAW : CHEMICAL COMPOSITION AND HARDNESS ONLY
2	C825228 (SIIX011090)	BBE	24 "	X 0.375 "	X 21.000 FT	2	42.000 FT	1.805	
3	C815169 (SIIX011110)	BBE	24 "	X 0.375 "	X 21.000 FT	3	63.000 FT	2.706	
4	C834956 (SIIX011140)	BBE	24 "	X 0.375 "	X 21.000 FT	1	21.000 FT	0.902	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 10 Sec. psi	RESULT	N.D.T U *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	균일성 C.S *4	알칼리 ALK *5
기준 SPEC									30									
1	C815116 (SII9302120)	1180	G	G	G	G			G									
2	C825228 (SIIX011090)	1180	G	G	G	G			G									
3	C815169 (SIIX011110)	1180	G	G	G	G			G									
4	C834956 (SIIX011140)	1180	G	G	G	G			G									

NO.	HEAT NO (BATCH NO.)	DESIG *6	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	CEQ *8	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENERGY Joule	SHEAR AREA %	HARDNESS TEST	HEAT TREATMENT SN *11	PROTECTI COATING LINING THICKNESS	P.
			2			3		2	2	2	2	3											
			*7										*8	*9									
기준 SPEC		MAX	28		125	30	30	40	40	40	15	80											
		MIN													60000	42000							
1	C815116 (SII9302120)	H	18	2	79	14	10																
		P	17	3	78	12	12	TR	2	TR	TR	TR		T	66700	46510	36				G		
		P	18	2	78	16	11	TR	2	TR	TR	TR		W	69268								
2	C825228 (SIIX011090)	H	16	2	77	9	8																
		P	16	2	77	10	10	TR	2	2	TR	2		T	66130	44940	37				G		
		P	17	2	78	9	7	TR	2	2	TR	2		W	70565								
3	C815169 (SIIX011110)	H	15	2	75	12	7																
		P	14	3	74	12	8	TR	2	TR	TR	TR		T	67410	46220	37				G		
		P	16	2	75	11	7	TR	2	TR	TR	TR		W	71130								
4	C834956 (SIIX011140)	H	16	1	77	14	8																
		P	17	1	76	12	7	1	TR	2	TR	TR		T	66850	47640	39				G		
		P	16	TR	78	12	10	1	TR	2	TR	TR		W	69703								

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