PAGE :

증명서번호
CERTIFICATE NO. : E200811-0102-002625(5003460)

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 : 2008.10.31

계 약 서 번 호
L/C No. (P/O No.) : 084-H548(93210)

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
13	SB20172 (SIIX222150)	BBE	12.3/4 " X 0.406 " X 42.000 FT	92	3,864.000 FT	93.895	CONFIRM TO NACE MR 0175 & MR 0103 *ERW : CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY *DSAW : CHEMICAL COMPOSITION AND HARDNESS ONLY
14	C826024 (SIIX252260)	BBE	24 " X 0.375 " X 42.000 FT	4	168.000 FT	7.217	
15	C825109 (SIIX271050)	BBE	24 " X 0.375 " X 21.000 FT	9	189.000 FT	8.120	
16	C836476 (SIIX271070)	BBE	24 " X 0.375 " X 21.000 FT	39	819.000 FT	35.184	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 5 Sec. psi	HYDROSTATIC TEST RESULT	N.D.T U *2	DIMENSION & VISUAL	FLATTENING	SHOCK	COMPRESSION	REMAGNETISM RESIDUAL GAUSS	BENDING *3	DRIFT	CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST WEIGHT OF ZINC COATING	균일성 C.S *4	알칼리 ALK *5
기준 SPEC									30									
13	SB20172 (SIIX222150)	2270	G	G	G	G			G									
14	C826024 (SIIX252260)	1180	G	G	G	G			G									
15	C825109 (SIIX271050)	1180	G	G	G	G			G									
16	C836476 (SIIX271070)	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	PROTECTIVE COATING & LINING THICKNESS	P.H
			2			3		2	2	2	2	3	*7										
기준 SPEC		MAX	28		125	30	30	40	40	40	15	80											
		MIN													60000	42000							
13	SB20172 (SIIX222150)	H	17	2	74	15	6																
		P	16	2	73	17	8	2	TR	TR	TR	1		T	71820	48920	35				G		
		P	16	1	73	16	6	2	TR	TR	TR	1		W	74268								
14	C826024 (SIIX252260)	H	15	1	78	15	9																
		P	15	TR	78	13	11	TR	1	2	TR	TR		T	69970	51200	33				G		
		P	16	2	79	14	8	TR	1	2	TR	TR		W	72548								
15	C825109 (SIIX271050)	H	16	1	78	13	10																
		P	15	TR	79	11	10	2	TR	1	TR	TR		T	68270	46930	34				G		
		P	15	2	79	12	9	2	TR	1	TR	TR		W	73268								
16	C836476 (SIIX271070)	H	18	2	83	13	6																
		P	17	1	83	13	7	TR	TR	TR	TR	TR		T	71250	50490	38				G		
		P	18	3	84	11	5	TR	TR	TR	TR	TR		W	75539								

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