

ORIGINAL

INSPECTION CERTIFICATE

주식회사 휴스틸
(HUSTEEL CO.,LTD.)

계약서번호 : 11324
 P/O No. : 11324
 L/C No. :
 발급일자 : 2012. 02. 15.
 제품명 : E.R.W. STEEL PIPES
 COMMODITY : E.R.W. STEEL PIPES
 제품규격 : API 5LB PSL1 / ASTM A53B
 SPECIFICATION : API 5LB PSL1 / ASTM A53B

□ HEAD OFFICE : Shinan B/D 15F, 943-19, Daechi-dong
 Kangnam-ku, SEOUL 135-845, KOREA
 □ DANGJIN PLANT: 569-1, BUGOK-RI, SONGAK-MYEON, DANGJIN-GUN,
 CHUNGCHEONGNAM-DO, KOREA
 ■ DAEBUL PLANT: 11 BLOCK, DAEBUL NATIONAL INDUSTRIAL COMPLEX,
 NABUL-RI, SAMHO-MYEON, YOUNGAM-KUN, CHULLANAM-DO, KOREA

증명서번호 : 20120215-043
 CERTIFICATE No. : 20120215-043
 제조번호 : 2011-12-210
 MANUFACTURED No. : 2011-12-210
 공급자 : HUSTEEL CO.,LTD.
 SUPPLIER : HUSTEEL CO.,LTD.
 수요자 : PLESA ANAHUAC Y CIAS., S.A.DE C.V.
 CUSTOMER : PLESA ANAHUAC Y CIAS., S.A.DE C.V.

ITEM NO.	HEAT NO. (LOT)	관종 TYPE	수량 QUANTITY (PIECES)	호칭경 NOMINAL SIZE (inch)	주문치수 ORDER SIZE			중량 WEIGHT (lb/ft)	인장시험 TENSILE TEST				화학성 CHEMICAL COMPOSITION(%)														
					바깥지름 O.D (mm)	두께 W.T. (in)	길이 LENGTH (ft)		인장강도 TS (psi)	인장강도 YS (psi)	연신율 EL (%)	항복비 YR (YS/TS)	C	Si	Mn	P	S	Cu	Cr	Ni	Mo	V	Nb	Ti	B	PCM	CEQ
													-2	-3	-2	-3			-4			-3					
1	SP19123	BPEB	89	10 3/4	273.1	0.225	20'	25.32	65989	46410	40		12	15	77	10	3	14	15	11	1	10	2	11			
2	SP21988	BPEB	305	10 3/4	273.1	0.225	20'	25.32	67005	47570	42		10	19	75	12	7	15	11	10	1	12	1	10			

ITEM NO.	수압시험 HYDROSTATIC TEST		열처리온도 HEAT TREATMENT (°C)	비파괴 시험 NDT (U.T)	경도시험 HARDNESS TEST (HV)	외주장 CIRCUMFERENCE		용접부인장강도 TENSILE STRENGTH OF WELDS (psi)	아연도금시험 ZINC COATING TEST		VISUAL & DIMENSION	FLATTENING (BEND) TEST	W D T	R G T	M G T	S.T (%)	충격시험 IMPACT TEST		Res. Mag.	비고 REMARKS	
	TP (psi)	RE-SULT				END	BODY		WZC (g/m²)	CST (TIMES)							P	ENERGY(J) SIZE: ①			②
1	1000	GOOD	930	ACCEPT				70050			ACCEPT							17		①Latest edition per API 5L 5LB (44th,2008) ASTM A53B(2007)/ ASME SA53B(2007) ②HARDNESS MAX. 22 HRC AS PER NACE MR 0175	
2	1000	GOOD	930	ACCEPT				71066			ACCEPT							16			

N ①TYPE BPE BLACK PLAIN ENDS BPEB BPE BEVELLED BTE BLACK THREADED ENDS BTC BLACK THREADED&COUPLED GPE GALVANIZED PLAIN ENDS GTE GALVANIZED THREADED ENDS GTC GALVANIZED THREAD&COUPLED
 O ②O.D. OUTSIDE DIAMETER ③W.T. WALL THICKNESS ④CHEMICAL COMPOSITION CHECK-ANALYSIS/UNIT -2:1/×100 -3:1/×1000 -4:1/×10000 TR TRACE ⑤TP TESTING PRESSURE ⑥NDT NON-DESTRUCTIVE TEST
 T E.T EDDY CURRENT TEST U.T ULTRASONIC TEST ⑦WZC WEIGHT OF ZINC COATING CST COPPER SULPHATE TEST ⑧WDT WELD DUCTILITY TEST RGT RING GAGE TEST MGT METALLOGRAPHIC TEST ⑨S.T STRAIGHTNESS
 E ⑩P=Position B:Base Metal, CL:Center Line ⑪SPECIMEN SIZE, A:10x10mm, B:10x7.5mm, C:10x6.7mm, D:10x5.0mm. ⑫RES.MAG. : RESIDUAL MAGNETISM

SIGNATURE : _____ 본 제품은 관련 규격이 정한 시험 및 검사에 합격하였음을 증명합니다. SIGNATURE : *[Signature]*
 WE HEREBY CERTIFY THAT THE PRODUCTS HEREIN HAVE BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ORDER. MANAGER OF QUALITY ASSURANCE TEAM