

COPY

CERTIFICATE OF QUALITY

주식회사 휴스틸
(HUSTEEL CO.,LTD.)

계약서번호 :
 P/O No. : 12994
 L/C No. :
 발급일자 :
 ISSUED DATE : 2012. 10. 04.
 제 품 명 :
 COMMODITY : E.R.W. STEEL PIPES
 제 품 규 격 :
 SPECIFICATION : API 5L-B / 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: 150,DAEBULSANDAN3-RO, YOUNGAM-GUN
 JOLLANAM-DO, KOREA

증명서번호 :
 CERTIFICATE No. : 20121004-325
 제조번호 :
 MANUFACTURED No. : 2012-07-211
 공급자 :
 SUPPLIER : HUSTEEL.CO.,LTD
 수요가 :
 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				화학성분 CHEMICAL COMPOSITION(%)														
					바깥지름 O.D (mm)	두께 W.T. (in)	길이 LENGTH (ft)		인장강도 TS (psi)	항복강도 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	29287	BPEB	93	12 3/4	②	③	20'	69905	49891	36		④															
2	389462	BPEB	93	12 3/4	323.9	0.250	20'	33.41	68455	47135	41	16	8	69	15	5	13	25	8	78	6	13	1	1			
3	M51436	BPEB	34	14	355.6	0.250	20'	36.75	67730	54532	40	17	15	83	14	2	6	19	7	17	4	21	5	1			
												6	9	80	12	4	12	21	3	1	6	181	6	1			

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. ⑫	비고 REMARKS
	TP (psi)	RE-SULT				END	BODY		WZC (g/m²)	CST (TIMES)							P	ENERGY(J) SIZE: ⑪		
	⑤	⑥																		
1	840	GOOD	930	ACCEPT			73966			ACCEPT	GOOD							17		
2	840	GOOD	930	ACCEPT			72516			ACCEPT	GOOD			GOOD	0.1			16		
3	770	GOOD	930	ACCEPT			71791			ACCEPT	GOOD			GOOD	0.1			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 _____
 SURVEYOR TO: HMS C-30-05-(21)
 본 제품은 관련 규격이 정한 시험 및 검사에 합격하였음을 증명합니다.
 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.
 SIGNATURE
 MANAGER OF QUALITY ASSURANCE TEAM