

DATE OF ISSUE : AUG.08.2011
 CUSTOMER : BROWNSVILLE

INSPECTION CERTIFICATE

(EN 10204:2004 3.1)

ST&H CORPORATION
 1290-4 Jwa3dong, Haeundaegu, Busan, Korea
 Tel : 82.51.7444680 (5 line) Fax : 82.51.7444670

발주번호 P/O NO.			원재료 RAW MATERIAL											성적서번호 CERTIFICATE NO											
BSC 2011-232(PSJ6425)			MADE FROM SEAMLESS PIPE											QA110808-02											
재료규격 Spec. for Material			검사규격 Spec. for Inspection				외관및치수검사 Surface & Dimension				비파괴검사 N.D.E			열처리 HEAT TREATMENT											
ASTM A234-07/ASME SA234-07 WPB NACE MR-0175			ASME B16.9				GOOD				MT:GOOD			620℃ ~ 980℃											
STD	수량	제품번호 STAMP NO.	화 학 성 분 CHEMICAL COMPOSITION (%)											인 장 시 험 Tensile Test				굽곡시험 Bending Test ()	평판시험 Flattening Test	경도시험 Hardness Test(HB)	충격시험 Impact Test	수압시험 Hydrostatic Test	C.E		
			C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	Nb	N	Y-P MPA	T-S MPA	EL (%)							RA (%)	
SPEC	MIN		0.10	0.29										240	415	22									
	MAX	0.30		1.06	0.05	0.058	0.40	0.15	0.40	0.40	0.08				655							197			
LR 90D ELBOW STD			0.19	0.22	0.51	0.012	0.009	0.01	0.006	0.013	0.01	0.01			310	500	31								0.28
3"	500	01596J																							
LR 90D ELBOW STD			0.18	0.25	0.55	0.01	0.01	0.04	0.01	0.04	0.17	0.01			355	490	35								0.30
3/4"	200	00502																							
LR 90D ELBOW STD			0.18	0.21	0.52	0.011	0.008	0.011	0.01	0.011	0.011	0.01			315	510	31								0.27
4"	600	002002J																							
LR 90D ELBOW STD			0.2	0.22	0.51	0.011	0.009	0.02	0.004	0.02	0.02	0.01			305	495	31								0.29
6"	400	02575R																							
LR 90D ELBOW STD			0.19	0.21	0.51	0.012	0.007	0.014	0.009	0.01	0.015	0.01			315	500	31								0.28
8"	300	03127R																							

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by the above order.

1MPa = 145.037 psi
 1MPa = 0.145037 ksi
 1psi = 0.00689 MPa
 1ksi = 6.89476 MPa

품질보증부
 QUALITY ASSURANCE DEP'T

(株) 釜山 카프링
 釜山 佐發

QUALITY INSPECTED AND SUPPLY BY ST&H CORP
 MANUFACTURED BY PUSAN COUPLING CO.LTD

C.E. = C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15

B.J. KIM / Q.A -GENERAL MANAGER