

DATE OF ISSUE : JUL.24.2010  
 CUSTOMER Brownsville Steel City LLC

# 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 2010-222 (PSJ5724)			MADE FROM SEAMLESS PIPE											QA100724-02										
재료규격 Spec. for Material			검사규격 Spec. for Inspection				외관및치수검사 Surface & Dimension				비파괴검사 N.D.E			열처리 HEAT TREATMENT										
ASTM A234-05/ASME SA234-05 WPB NACE MR-0175			ASME B16.9				GOOD				MT:GOOD			NORMALIZED (850°CX0.5HR)										
STD	수량	제품번호 STAMP NO.	화 학 성 분 CHEMICAL COMPOSITION (%)											인 장 시 험 Tensile Test			굴곡시험 Bending	평판시험 Flattening	경도시험 Hardness	충격시험 Impact	수압시험 Hydrostatic	C.E		
			C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	Nb	N	Y-P MPA	T-S MPA	EL (%)	RA (%)	Test ( )	Test	Test(HB)		Test	Test
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			
RED TEE XH																								
10" X 8"	2	03578	0.21	0.22	0.53	0.011	0.008	0.02	0.01	0.006	0.11	0.01			245	505	30					<197		0.31
RED TEE XH																								
12" X 6"	2	03802	0.17	0.23	0.52	0.01	0.004	0.04	0.01	0.03	0.04	0.01			335	550	30					<197		0.27
RED TEE XH																								
12" X 8"	2	03802	0.17	0.23	0.52	0.01	0.004	0.04	0.01	0.03	0.04	0.01			335	550	30					<197		0.27
RED TEE XH																								
12" X 10"	2	03802	0.17	0.23	0.52	0.01	0.004	0.04	0.01	0.03	0.04	0.01			335	550	30					<197		0.27
TEE STD																								
3"	75	02062	0.14	0.25	0.97	0.01	0.003	0.04	0.01	0.12	0.07	0.01			346	482	39					<197		0.33

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  
 韓 暻 依 俊

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