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 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 STEEL PLATE										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 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		
CAP XH			0.18	0.19	0.37	0.017	0.018	0.01	0.01	0.01	0.01	0.01			390	430	30								0.25
2 1/2"	5	42207																							
CAP XH			0.15	0.22	0.5	0.02	0.025	0.01	0.01	0.01	0.01	0.01			300	450	33								0.24
3"	5	0411																							
CAP XH			0.18	0.2	0.5	0.019	0.02	0.01	0.01	0.01	0.01	0.01			300	460	33								0.27
4"	5	0412																							
CAP XH			0.16	0.2	0.5	0.019	0.02	0.01	0.01	0.01	0.01	0.01			300	460	33								0.25
6"	10	0414																							
CAP XH			0.2	0.26	0.54	0.022	0.013	0.042	0.007	0.02	0.07	0.02			320	435	32								0.31
8"	5	0415																							

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

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

품질보증부  
 QUALITY ASSURANCE DEP'T

(주)승산카프콤  
 昇 山 卡 普 姆

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

양식번호 : QMS-8102-11

PUSAN COUPLING CO.,LTD