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 CUSTOMER :Brownsville Steel City LLC

# INSPECTION CERTIFICATE

(EN 10204:2004 3.1)

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

발주번호 P/O NO.			원재료 RAW MATERIAL											성적서번호 CERTIFICATE NO															
BSC 2010-225 (PSJ6054)			MADE FROM STEEL PLATE											QA110126-01															
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			NORMALIZED (850℃X0.5HR)															
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										
	Q'TY	MAX	0.30		1.06	0.05	0.058	0.40	0.15	0.40	0.40	0.08					655									197			
CAP STD			0.17	0.22	0.45	0.017	0.025	0.01	0.01	0.01	0.01	0.01					320	470	35										0.25
10"	5	0404																											
CAP STD			0.16	0.22	0.45	0.017	0.03	0.038	0.009	0.009	0.1	0.01					295	435	33										0.25
12"	10	0405																											
CAP STD			0.16	0.22	0.55	0.016	0.007	0.04	0.008	0.006	0.09	0.01					355	430	30										0.27
16"	10	0406																											
CAP STD			0.2	0.24	0.51	0.012	0.008	0.01	0.01	0.01	0.01	0.01					295	430	30										0.29
20"	5	0409																											
CAP STD			0.2	0.24	0.51	0.012	0.008	0.01	0.01	0.01	0.01	0.01					295	430	30										0.29
24"	10	0409																											

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

(株) 釜山 카프링  
 株式会社 釜山 卡夫링

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

양식번호 : QMS-8102-11

PUSAN COUPLING CO.,LTD