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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
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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			620°C ~ 980°C										
STD	제품번호 STAMP NO.	화 학 성 분 CHEMICAL COMPOSITION (%)												인 장 시 험 Tensile Test				굽곡시험 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	수량	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		
LR 45D ELBOW SCH80			0.21	0.22	0.56	0.011	0.006	0.05	0.03	0.03	0.12	0.01			275	505	30							0.33
10"	4	03400																						
LR 45D ELBOW SCH80			0.21	0.23	0.53	0.007	0.012	0.02	0.01	0.02	0.03	0.01			325	460	32							0.31
12"	5	03446																						
LR 45D ELBOW SCH80			0.21	0.23	0.55	0.011	0.007	0.02	0.01	0.003	0.011	0.01			255	515	31							0.31
16"	3	03605																						
LR 90D ELBOW SCH160			0.22	0.23	0.52	0.01	0.008	0.05	0.02	0.01	0.05	0.01			320	505	32							0.33
2"	20	01448																						
LR 90D ELBOW SCH160			0.19	0.23	0.55	0.009	0.008	0.03	0.007	0.01	0.03	0.01			315	515	30							0.29
3"	20	02163																						

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.

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

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

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

품질보증부
 QUALITY ASSURANCE DEPT
 (株) 釜山 카프링
 釜山 依發

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

양식번호 : QMS-8102-11

PUSAN COUPLING CO.,LTD