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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 2010-225 (PSJ6054)			MADE FROM SEAMLESS PIPE										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			620℃ ~ 980℃										
STD	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	수량 Q'TY	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 SCH80			0.21	0.19	0.54	0.007	0.006	0.06	0.05	0.04	0.05	0.01		320	510	31					<197			0.33
8"	20	03042																						
LR 90D ELBOW STD			0.2	0.25	0.42	0.012	0.009	0.019	0.01	0.01	0.003	0.01		285	440	30						<197		0.28
12"	5	03457																						
LR 90D ELBOW STD			0.2	0.25	0.42	0.012	0.009	0.019	0.01	0.01	0.003	0.01		285	440	30						<197		0.28
12"	6	03457V																						
LR 90D ELBOW STD			0.2	0.21	0.5	0.008	0.008	0.01	0.01	0.02	0.03	0.01		265	475	32						<197		0.29
14"	3	03658V																						
LR 90D ELBOW STD			0.17	0.24	0.53	0.01	0.003	0.03	0.01	0.02	0.07	0.01		245	480	30						<197		0.27
16"	10	03648																						

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 DEPT
 (株) 釜山 카프링
 株式会社 釜山 卡夫링

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

양식번호 : QMS-8102-11

PUSAN COUPLING CO.,LTD