

CERTIFICATE OF INSPECTION & TEST

(EN 10204 3.1)

ORIGINAL



ST&H CORPORATION
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CARBON STEEL FITTINGS MADE FROM SEAMLESS PIPE

Date: **AUG.14.2015**

Customer : PLESA ANAHUAC Y CIAS.,S.A.DE C.V.			Contract No : 21139 (AMOUNT : USD53,381.13)										Certificate No : MJW9032							
Spec. for Material			Spec. for Inspection										Surface & Dimension			N.D.E		Heat Treatment		
ASTM A234-14/ASME SA234-13 WPB NACE MR0175 / ISO 15156-2009			ASME B16.9 - 2012										GOOD			N/A		HOT FORMED (620°C ~ 980°C)		
ITEM	STAMP NO.	CHEMICAL COMPOSITION (%)											Tensile Test				Hardness Test(HB)	Hydrostatic Test	C.E	
		C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	Nb	Y-P MPA	T-S MPA	EL (%)	RA (%)				
SIZE	Q'TY	MIN		0.10	0.29									240	415	30				
		MAX	0.30		1.06	0.05	0.058	0.40	0.15	0.40	0.40	0.08						197		
LR 90D ELBOW SCH40			0.197	0.235	0.492	0.013	0.011	0.014	0.026	0.015	0.009	0.003	285	470	35		<197		0.29	
16"	15	WBABP																		
LR 90D ELBOW SCH40			0.21	0.26	0.46	0.019	0.015	0.05	0.04	0.02	0.02	0.009	260	465	31		<197		0.31	
18"	2	WAABV																		
LR 90D ELBOW SCH40			0.21	0.26	0.46	0.019	0.015	0.05	0.04	0.02	0.02	0.009	260	465	31		<197		0.31	
20"	3	WAABV																		
LR 90D ELBOW SCH80			0.21	0.2	0.55	0.018	0.003	0.14	0.009	0.06	0.01	0.005	295	481	31		<197		0.34	
5"	50	GAAAF																		
LR 90D ELBOW SCH80			0.18	0.19	0.46	0.008	0.008	0.021	0.011	0.016	0.02	0.002	265	470	34		<197		0.27	
6"	100	GBABF																		

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.

EXPORT COUNTRY - BUSAN, KOREA
 COUNTRY OF ORIGIN - KOREA
 TOTAL WEIGHT : 31,995 KGS

Reviewed by
 Witnessed by

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

