

# 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 : <b>PLESA ANAHUAC Y CIAS.,S.A.DE C.V.</b>			Contract No : <b>21139</b> (AMOUNT : USD53,381.13)										Certificate No : <b>MJW9032</b>							
Spec. for Material			Spec. for Inspection										Surface & Dimension		N.D.E		Heat Treatment			
<b>ASTM A234-14/ASME SA234-13 WPB NACE MR0175 / ISO 15156-2009</b>			<b>ASME B16.9 - 2012</b>										<b>GOOD</b>		N/A		<b>HOT FORMED (620 °C ~ 980 °C)</b>			
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 STD			0.222	0.324	0.475	0.008	0.01	0.018	0.025	0.038	0.026	0.003		265	460	35		<197		0.31
14"	20	WAAFR																		
LR 90D ELBOW STD			0.24	0.32	0.46	0.012	0.007	0.02	0.007	0.01	0.008	0.004		265	470	38		<197		0.32
18"	5	WAAEN																		
<b>BLANK</b>																				

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

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

