

CERTIFICATE OF INSPECTION & TEST

(EN 10204 3.1)



ORIGINAL



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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 SCH80			0.22	0.21	0.42	0.008	0.007	0.014	0.004	0.01	0.008	0.002	270	480	34		<197		0.30	
8"	50	GBACB																		
LR 90D ELBOW SCH80			0.202	0.19	0.46	0.008	0.005	0.021	0.024	0.016	0.02	0.003	275	480	34		<197		0.29	
10"	30	WBADG																		
LR 90D ELBOW SCH80			0.18	0.26	0.51	0.012	0.003	0.024	0.021	0.041	0.032	0.003	260	480	34		<197		0.28	
12"	50	WBADZ																		
LR 90D ELBOW SCH80			0.189	0.231	0.46	0.008	0.004	0.041	0.011	0.002	0.024	0.003	270	475	37		<197		0.28	
16"	20	WBACT																		
LR 90D ELBOW SCH80			0.189	0.225	0.524	0.014	0.009	0.023	0.019	0.008	0.006	0.002	290	495	35		<197		0.29	
20"	2	WBACK																		
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										<input type="checkbox"/> Reviewed by <input type="checkbox"/> Witnessed by				 Manager of Q.A Dept.			
$C.E. = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15$																				