

CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)



ST&H CORPORATION

74, Jwadongsunhwan-ro, Haeundae-gu, Busan, Korea
 Tel : +82.51.744-4680(5 line) Fax : +82.51.744-4670
 E-mail : qm@stnhcorp.com



RPS 0160308 / 01

Certificate No. MJW9145A-03/09 Date : MAR. 08. 2016
 Customer PLESA ANAHUAC Y CIAS., S.A. DE C.V.
 Contract No. 22014
 Spec. For Material ASTM/ASME A/SA234-14 WPB,NACE MR0175-2009/ ISO15156-1:2015
 Heat Treatment HOT FORMED (620°C ~ 980°C)

Certified to ISO9001:2008, ISO14001:2004, PED97/23/EC by LRQA

Dimensional inspection ASME B16.9 - 2012

ITEM / SIZE	Q'ty	Heat No./ Batch No.	Size of Test Specimen		Tension Test				Hardness Test (HB)	Charpy Impact Test (10X10mm Specimen Size)				
			D	GL	Max	Y.S	T.S	E.L		R.A	Indiv.	Ave.	Notch	Temp.
			mm	mm					Min					
G90ESRSTD3	SR 90D ELBOW STD 3"	50	GBACM	12.5	50.0	240	275	415	30.0	118	132			
G90ESRSTD4	SR 90D ELBOW STD 4"	30	GBAEX	12.5	50.0	270	270	485	36	110	128			
G90ELRSTD12	LR 90D ELBOW STD 12"	2	GBAFG	12.5	50.0	280	280	490	37	114	133			
G90ELRSTD16	LR 90D ELBOW STD 16"	2	GBAFF	12.5	50.0	275	275	490	35	110	130			
G90ELRSTD24	LR 90D ELBOW STD 24"	5	WAAEN	12.5	50.0	265	265	470	38	122	135			
	BLANK		BLANK					BLANK		BLANK				

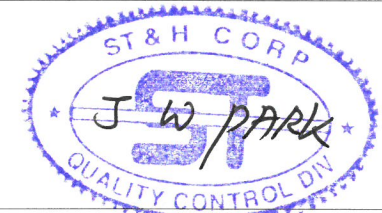
Heat No./ Batch No.	Max Min	Chemical Composition (%)											NDE							
		C	SI	Mn	P	S	Cr	Mo	Ni	Cu	V				CE	UT	MT	PT		
		0.300	0.100	1.060	0.050	0.058	0.400	0.150	0.400	0.400	0.080						0.430			
GBACM		0.200	0.180	0.410	0.009	0.009	0.011	0.008	0.018	0.009	0.002						0.274			
GBAEX		0.180	0.210	0.420	0.009	0.008	0.019	0.006	0.009	0.010	0.002						0.256			
GBAFG		0.200	0.240	0.410	0.010	0.008	0.014	0.003	0.009	0.003	0.002						0.272			
GBAFF		0.190	0.210	0.460	0.009	0.008	0.011	0.003	0.008	0.003	0.002						0.270			
WAAEN		0.240	0.320	0.460	0.012	0.007	0.020	0.007	0.010	0.008	0.004						0.324			

REMARK * CARBON STEEL FITTINGS MADE FROM PIPE
 * EXPORT COUNTRY - BUSAN, KOREA
 * COUNTRY OF ORIGIN - KOREA
 * TOTAL WEIGHT : 19,499 KGS

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.

[Handwritten Signature]

Witnessed by / H. J. LEE



Manager of Q.A Dept. / J. W. PARK