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**MILL CERTIFICATE / PRODUCTION CERTIFICATE  
MANUFACTURER'S CERTIFICATE**

(Mill Test Certificate) DIN 50049-3.1-B / EN 10204-3.1

Purchaser	: PLESA ANAHUAC Y CIAS., SA DE C.V.	Certificate No	: 120672
Product	: CARBON STEEL FITTINGS	Order No	: PO. 13745
Specification	: ASTM A-234 WPB – 2011A	Date	: AUGUST 11, 2012
	: ASME SA234 WPB	L/C No	: M928369

Raw Material Standard	Inspection Standard	Visual Inspection	Dimensional Inspection
PIPE : ASTM A106 B/ A53B / API5LB PLATE : ASTM A516 Gr 50 / 60	ANSI B16.9 ANSI B16.28	PASS	PASS

Product & Size (inch)	Heat ID.	Quantity	Heat NO.	Raw Material Maker
1 45 ELBOW LR STD 3"	28805	200	321843	2554-805
2 45 ELBOW LR STD 4"	25882	200	11-1-1472	2554-882
3 45 ELBOW LR STD 6"	28302	46	08-1-0110	2554-302
4 45 ELBOW LR STD 6"	22302	2	08-1-0110	2554-302
5 45 ELBOW LR STD 6"	28302	2	08-1-0110	2554-302
6 45 ELBOW LR STD 14"	28315	5	0844607	2554-315
7 45 ELBOW LR STD 16"	24318	2	0844607	2554-318
8 45 ELBOW LR STD 16"	28318	1	0844607	2554-318
9 45 ELBOW LR STD 20"	28953	3	521353	2554-531
10 45 ELBOW LR SCH40 12"	24807	6	671365	2554-807
11 90 ELBOW SR STD 2"	28801	50	718067	2554-801

Standard	Chemical Composition %												Mechanical Test			Average Hardness	CE Long Formula
	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Al	YS	TS	E		
	x 100	x 100	x 100	x 1000	x 1000	x 100	x 100	x 100	x 100	x 100	x 1000	x 1000	psi	psi	%	Hb	x 100
Min.	-	10	29	-	-	-	-	-	-	-	-	-	35,000	60,000	30	-	-
Max.	30	-	106	48	58	40	40	40	15	8	-	50	-	85,000	-	197	42
1	20	22	43	16	10	2	1	1	-	-	-	-	42500	72100	34	167	38
2	21	21	42	17	6	10	7	8	-	-	-	-	47500	70700	34	159	31
3	18	23	52	25	7	11	4	9	-	-	-	-	50000	71400	36	101	35
4	18	23	52	25	7	11	4	9	-	-	-	-	50000	71400	36	101	35
5	18	23	52	25	7	11	4	9	-	-	-	-	50000	71400	36	101	35
6	20	23	50	12	10	10	4	4	-	-	-	-	45700	67900	33	132	36
7	20	23	50	12	10	10	4	4	-	-	-	-	45700	67500	33	140	36
8	20	23	50	12	10	10	4	4	-	-	-	-	45700	67500	33	140	36
9	19	24	49	2	2	2	2	6	-	-	-	-	38200	68900	33	155	27
10	19	21	57	16	7	6	2	4	-	-	-	-	40400	65400	38	164	30
11	21	24	49	6	12	9	3	4	-	-	-	-	45700	66800	35	135	31

• We hereby certify that the products described herein have been manufactured, inspected and conforms to standard as specified above.

• ALL FITTINGS ARE HEAT TREATED TO MEET NACE MR0175-03 STANDARD SPECIFICATION AT 650-680 C x 1.0 HR.

• CE = C + (Mn/6) + (Cr + Mo + V)/5 + (Ni+Cu)/15

• ALL TEES ARE TESTED BY MAGNETIC PARTICLE EXAMINATION (MT)

*[Signature]*  
Chief of Quality Assurance Dept