



ArcelorMittal LaPlace
 138 HWY 3217
 LaPlace LOUISIANA 70068
 Telephone (985) 652-4900

MATERIAL CERTIFICATION REPORT

KLOECKNER METALS CORPORATION
 500 Colonial Center Parkway
 30076 Roswell

KLOECKNER METALS CORPORATION
 HOUSTON, TX
 14200 ALMEDA ROAD
 77053 Houston

Tested in Accordance
 With: ASTM A6

Invoice NO.
 Product Equal Angl
 Heat NO. L85542
 Length 40' 00"

Date 2012/07/31
 Cust 40006317
 Grade A3652950
 Size 4"X4"X3/4"X18.500

PO: 6511004
 Ref. 80442926
 Pieces 39

CHEMICAL ANALYSIS		MECHANICAL PROPERTIES	TEST 1		TEST 2		TEST 3	
			IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C	0.14	YIELD STRENGTH	50,600 PSI	349 MPa	50,500 PSI	348 MPa		
Mn	0.90	TENSILE STRENGTH	68,600 PSI	473 MPa	68,000 PSI	469 MPa		
P	0.012	ELONGATION	36 %	36 %	36 %	36 %		
S	0.031	GAUGE LENGTH	8 IN	203 mm	8 IN	203 mm		
Si	0.19	BEND TEST DIAMETER						
Cu	0.28	BEND TEST RESULTS						
Ni	0.09	SPECIMEN AREA						
Cr	0.06	REDUCTION OF AREA						
Mo	0.026	IMPACT STRENGTH						
Cb	0.026							
V	0.000							
B		IMPACT STRENGTH	IMPERIAL	METRIC	INTERNAL CLEANLINESS		GRAIN SIZE	
Al		AVERAGE			SEVERITY		HARDNESS	
Sn	0.009	TEST TEMP			FREQUENCY		GRAIN PRACTICE	
N		ORIENTATION			RATING		REDUCTION RATIO	
Ti								

A36-08,A52950-05,CSA50W,44W,A70936-09a,AASHTO M270 Grade 36,
 AASHTO M270 Grade 50,ASME SA36-2008a, A57250-07,A70950-10.

This heat also makes A57250 .

Ci	5.4
CE	0.33

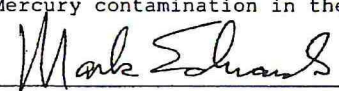
I hereby certify that the material test results presented here are from the reported heat and are correct. All tests were performed in accordance to the specification reported above. All steel is electric furnace melted (billets), manufactured, processed, and tested in the U.S.A with satisfactory results, and is free of Mercury contamination in the process. No weld repair was performed on this heat.

Notarized upon request:

Sworn to and subscribed before me in and for ST. John Parish on this 31st day of July, 2012

Michael E. Soileau, #81887, Notary Public

Signed


 MARK EDWARDS, QUALITY ASSURANCE SUPERVISOR

Direct any questions or necessary clarifications concerning this report to the Sales Department 1-800-535-7692 (USA)

ID: 1685280