



ArcelorMittal LaPlace
 138 HWY 3217
 LaPlace LOUISIANA 70068
 Telephone (985) 652-4900
 Export Country = USA

MATERIAL CERTIFICATION REPORT

Tested in Accordance
 With: ASTM A6

Sales Order 153258-1 Date 2015/11/05 PO:
 Product Unequal Angles Cust 40006010 Ref. 80857009
 Heat NO. L101703 Grade A3652950 Pieces 26
 Cust.Mat. Length 40' 00" Weight 10192
 Size 6"X3 1/2"X5/16"X9.800

CHEMICAL ANALYSIS		MECHANICAL PROPERTIES	TEST 1		TEST 2		TEST 3	
			IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C	0.11	YIELD STRENGTH	57600 PSI	397 MPa	55900 PSI	385 MPa		
Mn	1.02	TENSILE STRENGTH	74200 PSI	512 MPa	73900 PSI	510 MPa		
P	0.007	ELONGATION	35 %	35 %	30 %	30 %		
S	0.024	GAUGE LENGTH	8 IN	203 mm	8 IN	203 mm		
Si	0.22	BEND TEST DIAMETER						
Cu	0.30	BEND TEST RESULTS						
Ni	0.10	SPECIMEN AREA						
Cr	0.10	REDUCTION OF AREA						
Mo	0.040	IMPACT STRENGTH						
Cb	0.015							
V	0							
B								
Al								
Sn	0.010							
N								
Ti								
Ci	5.5							
CE	0.34							

IMPACT STRENGTH	IMPERIAL	METRIC	INTERNAL CLEANLINESS	GRAIN SIZE
AVERAGE			SEVERITY	HARDNESS
TEST TEMP			FREQUENCY	GRAIN PRACTICE
ORIENTATION			RATING	REDUCTION RATIO

This heat makes the following grades: A36-08, A52950-05, G40.21-CSA50W, CSA44W, A70936-09a, ASME SA36-2010, A57250-07, A70950-10, and the following AASHTO M270 Grades: 36, 50, and 345. Heat is free of Mercury contamination in the process.

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 arc furnace melted (billets), manufactured, processed, tested in the U.S.A with satisfactory results. No weld repair was performed on this heat.

Notarized upon request:

Sworn to and subscribed before me on this 5th day of November, 2015

Signed Mark Edwards
 MARK EDWARDS, QUALITY ASSURANCE SUPERVISOR

Notary Public

Parish/County

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