



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 153337-2 Date 11/10/2015
 Product Unequal Angles Cust 40006010
 Heat NO. L101618 Grade A3652950
 Cust.Mat. Length 40' 00"
 Size 6"X4"X1/2"X16.200

PO:
 Ref. 80858768
 Pieces 15
 Weight 9720

CHEMICAL ANALYSIS		MECHANICAL PROPERTIES		TEST 1		TEST 2		TEST 3	
		IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C	0.12	YIELD STRENGTH	52800 PSI	364 MPa	52400 PSI	361 MPa			
Mn	0.90	TENSILE STRENGTH	73300 PSI	505 MPa	73100 PSI	504 MPa			
P	0.010	ELONGATION	39 %	39 %	39 %	39 %			
S	0.030	GAUGE LENGTH	8 IN	203 mm	8 IN	203 mm			
Si	0.20	BEND TEST DIAMETER							
Cu	0.32	BEND TEST RESULTS							
Ni	0.16	SPECIMEN AREA							
Cr	0.16	REDUCTION OF AREA							
Mo	0.074	IMPACT STRENGTH							
Cb	0.015								
V	0								
B		IMPACT STRENGTH	IMPERIAL	METRIC	INTERNAL CLEANLINESS	GRAIN SIZE			
Al		AVERAGE			SEVERITY	HARDNESS			
Sn	0.010	TEST TEMP			FREQUENCY	GRAIN PRACTICE			
N		ORIENTATION			RATING	REDUCTION RATIO			
Ti									

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.

Ci	5.8
CE	0.34

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 10th day of November, 2015

Signed

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)