



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 143950-18 Date 2015/05/27 PO:
 Product Unequal Angles Cust 40006020 Ref. 80794697
 Heat NO. L98211 Grade A3652950 Pieces 20
 Cust.Mat. Length 40' 00" Weight 10880
 Size 7"X4"X3/8"X13.600

CHEMICAL ANALYSIS		MECHANICAL PROPERTIES	TEST 1		TEST 2		TEST 3	
			IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C	0.11	YIELD STRENGTH	55600 PSI	383 MPa	55300 PSI	381 MPa		
Mn	0.86	TENSILE STRENGTH	72400 PSI	499 MPa	73800 PSI	509 MPa		
P	0.008	ELONGATION	35 %	35 %	32 %	32 %		
S	0.036	GAUGE LENGTH	8 IN	203 mm	8 IN	203 mm		
Si	0.20	BEND TEST DIAMETER						
Cu	0.29	BEND TEST RESULTS						
Ni	0.11	SPECIMEN AREA						
Cr	0.16	REDUCTION OF AREA						
Mo	0.037	IMPACT STRENGTH						
Cb	0.016							
V	0							
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								

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	5.5
CE	0.32

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 27th day of May, 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)