



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 149596-2      Date 2015/08/31      PO: KN-642517  
 Product Unequal Angles Cust 40006281      Ref. 80831221  
 Heat NO. **L99324**      Grade ABSA      Pieces 26  
 Cust.Mat.      Length 40' 00"      Weight 21952  
 Size **8"X4"X1/2"X19.600**

CHEMICAL ANALYSIS		MECHANICAL PROPERTIES	TEST 1		TEST 2		TEST 3	
			IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
C	0.11	YIELD STRENGTH	53300 PSI	367 MPa	54300 PSI	374 MPa		
Mn	1.02	TENSILE STRENGTH	71700 PSI	494 MPa	71200 PSI	491 MPa		
P	0.006	ELONGATION	30 %	30 %	25 %	25 %		
S	0.018	GAUGE LENGTH	8 IN	203 mm	8 IN	203 mm		
Si	0.20	BEND TEST DIAMETER						
Cu	0.24	BEND TEST RESULTS						
Ni	0.14	SPECIMEN AREA						
Cr	0.12	REDUCTION OF AREA						
Mo	0.058	IMPACT STRENGTH						
Cb	0.015							
V	0							
B								
Al		IMPACT STRENGTH	IMPERIAL	METRIC	INTERNAL CLEANLINESS	GRAIN SIZE		
Sn	0.012	AVERAGE			SEVERITY	HARDNESS		
N		TEST TEMP			FREQUENCY	GRAIN PRACTICE		
Ti		ORIENTATION			RATING	REDUCTION RATIO		

A709-36, Mil-s-22698C Am 1&2 Cl U Yr 94, Grade A.  
 A36-08. Heat is free of Mercury contamination in the process.

Ci	5.1
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 31st day of August, 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)