



BAYOU STEEL GROUP
(LAPLACE)
138 HWY 3217
LAPLACE LOUISIANA 70068
Telephone (985) 652-4500

555 Poyntz Avenue
MANHATTAN KS 66505-1688
EMATS-UNITS

MATERIAL CERTIFICATION REPORT

815 Mississippi Street - Gate 1
HOUSTON TX 77029
USA

Tested in Accordance With: ASTM A6
Sales Order 192182-3 Date 03/19/2019 PO: 4500326305
Product Unequal Angles Cust 40008266 Ref. 81029422
Heat NO. L117605 Grade A3652950 Pieces 42
Cust. Mat. 506004001220 Length 20' 00" Weight 10332
Size U6X4X3/8X12.3 * LP

CHEMICAL ANALYSIS	MECHANICAL PROPERTIES			TEST 1 METRIC		TEST 2 METRIC		TEST 3 METRIC	
	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	
C	0.12	YIELD STRENGTH	56800 PSI	392 MPa	56100 PSI	387 MPa			
Mn	0.82	TENSILE STRENGTH	77700 PSI	536 MPa	77400 PSI	534 MPa			
P	0.012	ELONGATION	34 %	34 %	30 %	30 %			
S	0.020	GAUGE LENGTH	8 IN	203 mm	8 IN	203 mm			
Si	0.21	BEND TEST DIAMETER							
Cu	0.31	BEND TEST RESULTS							
Ni	0.12	SPECIMEN AREA							
Cr	0.16	REDUCTION OF AREA							
Mo	0.031	IMPACT STRENGTH							
Cb	0.015								
V	0								
B									
Al									
Sn	0.006	IMPACT STRENGTH							
N		AVERAGE TEST TEMP							
Ti		ORIENTATION							
CI	5.8								
CE	0.32								

This heat makes the following grades: A36-14, A52950-14, G40.21-CSA50W, CSA44W, A70936-13a, ASME SA36-2010, A57250-12a, A70950-13a, and the following AASHTO M270 Grades: 36, 50, and 345. Heat is free of Mercury contamination in the process. This material conforms to EN 10204 3.1.

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 19th day of March, 2019

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)

Shipment: 0019017840
Heat: L117605
Customer PO: 205849-01
Superior Supply & Steel