



CMC STEEL ALABAMA
 101 S 50TH STREET
 BIRMINGHAM AL 35212-3525

CERTIFIED MILL TEST REPORT

For additional copies call
 800-637-3227

We hereby certify that the test results presented here
 are accurate and conform to the reported grade specification

Marcus W. McCluney - CMC Steel AL
 Quality Assurance Manager

1SERIES-BPS[®]

HEAT NO.:1084381 SECTION: ANG 4 X 3x1/2 20"0" A36/52950 GRADE: ASTM A36-19/A529-14 Gr 50 ROLL DATE: 01/13/2023 MELT DATE: 01/03/2023 Cert. No.: 85292301 / 084381B960	Delivery#: 85292301 BOL#: 75167265 CUST PO#: 4500542763 CUST P/N: 504003001620 DLVRY LBS / HEAT: 5106.000 LB DLVRY PCS / HEAT: 23 EA
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Characteristic	Value	Characteristic	Value	Characteristic	Value
C	0.15%	Elongation test 1	25%	The Following is true of the material represented by this MTR: <i>*Material is fully killed and is Hot Rolled Steel</i> <i>*100% melted, rolled, and manufactured in the USA</i> <i>*EN10204:2004 3.1 compliant</i> <i>*Contains no weld repair</i> <i>*Contains no Mercury contamination</i> <i>*Manufactured in accordance with the latest version of the plant quality manual</i> <i>*Meets the "Buy America" requirements of 23 CFR635.410, 49 CFR 661</i> <i>*Warning: This product can expose you to chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov</i>	
Mn	0.68%	Elongation Gage Lgth test 1	8IN		
P	0.018%	Yield to tensile ratio test1	0.69		
S	0.019%	Yield Strength test 2	52.7ksi		
Si	0.17%	Tensile Strength test 2	75.8ksi		
Cu	0.41%	Elongation test 2	24%		
Cr	0.16%	Elongation Gage Lgth test 2	8IN		
Ni	0.15%	Yield to tensile ratio test2	0.70		
Mo	0.038%				
V	0.004%				
Cb	0.009%				
Sn	0.011%				
B	0.0002%				
Ti	0.001%				
N	0.0098%				
Carbon Eq A6	0.34%				
Carbon Eq A529	0.37%				
Yield Strength test 1	52.7ksi				
Tensile Strength test 1	76.2ksi				

REMARKS : ALSO MEETS ASTM GRADE A36 REV 08, A572-50, A709-36, A709-50, A992, AASHTO GRADE M270-36, M270-50, CSA G40.21-04 GRADE 44W, 50W, ASME SA-36 2008A ADDEND A.



CERTIFIED MATERIAL TEST REPORT

US-ML-JACKSON TN
801 GERDAU AMERISTEEL ROAD
JACKSON, TN 38305
USA

Table with 4 main sections: GRADE (GGMULTI), SHAPE / SIZE (Angle / 4X3X1/2), LENGTH (20'00"), WEIGHT (4,884 LB), HEAT / BATCH (63224053/03), SALES ORDER (12628281/000040), CUSTOMER MATERIAL N° (00000504003001620), SPECIFICATION / DATE or REVISION (ASTM A529-14, A572-15, etc.), CUSTOMER PURCHASE ORDER NUMBER (4500544587), BILL OF LADING (1333-0000208942), DATE (02/05/2023).

CHEMICAL COMPOSITION table with columns: C (%), Mn (%), P (%), S (%), Si (%), Cu (%), Ni (%), Cr (%), Mo(%), V (%), Nb (%), Al (%), CEq(A529 (%)), Sn (%). Values: 0.14, 0.72, 0.014, 0.023, 0.21, 0.34, 0.12, 0.20, 0.030, 0.001, 0.006, 0.000, 0.37, 0.013.

MECHANICAL PROPERTIES table with columns: Elong. (%), G/L (Inches), G/L (mm), UTS (PSI), UTS (MPa), YS (PSI), YS (MPa). Values: 28.00, 8.000, 200.0, 74493, 514, 53539, 369; 32.00, 8.000, 200.0, 75605, 521, 54911, 379.

GEOMETRIC CHARACTERISTICS table with R:R value of 9.34.

COMMENTS / NOTES
This grade meets the requirements for the following grades:
ASTM Grades: A36; A529-50; A572-50; A709-36; A709-50
CSA Grades: 44W; 50W
AASHTO Grades: M270-36; M270-50
ASME Grades: SA36

The above figures are certified chemical and physical test records as contained in the permanent records of the company. We certify that these data are correct and in compliance with specified requirements. No weld repair was performed on this material. The material has not been in contact with mercury while in Gerdau possession. For all products other than billets or beam blanks, this material was produced (Electric Arc Furnace, Melted, Continuously Cast, Hot Rolled and, if applicable, Cold-Drawn) in the USA. For billets or beam blanks, this material was produced (Electric Arc Furnace, Melted and Continuously Cast) in the USA. CMTR complies with EN 10204 3.1.

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