


Steel & Pipe Supply Co.  
 AZZ Galvanizing  
 Customer PO: 229098-06  
 Heat: 64067902  
 Shipment: 0021040918

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CERTIFIED MATERIAL TEST REPORT

|  |   |   |   |
|--|---|---|---|
|  <p><b>GERDAU</b><br/>       US-ML-WILTON<br/>       1500-2500 WEST 3RD STREET<br/>       WILTON, IA 52778<br/>       USA</p> | <p>GRADE:<br/>CGMULTI</p> <p>SHAPE / SIZE<br/>Angle / 1 1/2X1 1/2X1/4</p> <p>WEIGHT<br/>14,601 LB</p> <p>HEAT / BATCH<br/>64067902/02</p> | <p>DOCUMENT ID:<br/>0000104306</p> <p>LENGTH<br/>20'00"</p> <p>SPECIFICATION / DATE of REVISION<br/>         ASTM A529-14, A572-15<br/>         ASTM A6-17, A36-14, ASME SA-36<br/>         ASTM A709-17, AASHTO M270-15<br/>         CSA G40.20-13/G40.21-13</p> | <p>BILL OF LADING<br/>1334-000074893</p> <p>DATE<br/>07/14/2021</p> |
|--|---|---|---|

|  |                    |
|--|--------------------|
| CUSTOMER PURCHASE ORDER NUMBER<br>G450035647 | DATE<br>07/14/2021 |
|--|--------------------|

| CHEMICAL COMPOSITION | C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo (%) | V (%) | Nb (%) | Sn (%) |
|----------------------|-------|--------|-------|-------|--------|--------|--------|--------|--------|-------|--------|--------|
|                      | 0.14  | 0.55   | 0.013 | 0.053 | 0.19   | 0.27   | 0.16   | 0.19   | 0.037  | 0.013 | 0.009  | 0.010  |

| MECHANICAL PROPERTIES | Elong (%) | G/L (Inches) | UTS (FST) | UTS (MPa) | YS (PSI) | YS (MPa) |
|-----------------------|-----------|--------------|-----------|-----------|----------|----------|
|                       | 21.80     | 8.000        | 77214     | 532       | 60682    | 418      |
|                       | 22.50     | 8.000        | 78173     | 539       | 61631    | 425      |

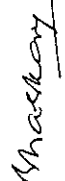
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| GEOMETRIC CHARACTERISTICS<br>R/R<br>44.73 |
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COMMENTS / NOTES

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

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

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 Gerdaus possession. This material, including the billets, was produced (Electric Arc Furnace melted, Continuously cast, and/or 11et rolled) in the USA. CMTR complies with EN 10204 3.1.

  
 BHASKAR YALAMANCHILLI  
 QUALITY DIRECTOR

  
 DANIEL K WELLS  
 QUALITY ASSURANCE MGR.

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