

**CERTIFIED MATERIAL TEST REPORT**

|   |  |   |  |                                   |  |
|---|--|---|--|-----------------------------------|--|
| <b>GRADE</b><br>A992/A572-50  |  | <b>SHAPE / SIZE</b><br>Wide Flange Beam / 16 X 57# / 410 X 85 |  | <b>DOCUMENT ID:</b><br>0001018309 |  |
| <b>LENGTH</b><br>50'00"   |  | <b>PCS</b><br>3   |  | <b>WEIGHT</b><br>8,550 LB         |  |
| <b>HEAT / BATCH</b><br>58058468/03  |  |   |  |                                   |  |
| <b>SALES ORDER</b><br>13486169/0000010  |  | <b>CUSTOMER MATERIAL N°</b>                                   |  |                                   |  |
| <b>CUSTOMER PURCHASE ORDER NUMBER</b><br>SSW139406  |  | <b>BILL OF LADING</b><br>1327-0000552859                      |  | <b>DATE</b><br>10/27/2023         |  |
| <b>SPECIFICATION / DATE or REVISION</b><br>ASTM A6-17<br>ASTM A709-21 GR50<br>ASTM A992-20, A572-21<br>CSA G40.21-13 345WM, 50W |  |   |  |                                   |  |

|                             |      |       |       |       |       |        |      |        |      |        |      |        |      |        |       |        |       |        |       |       |       |        |       |            |      |
|-----------------------------|------|-------|-------|-------|-------|--------|------|--------|------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|------------|------|
| <b>CHEMICAL COMPOSITION</b> |      |       |       |       |       |        |      |        |      |        |      |        |      |        |       |        |       |        |       |       |       |        |       |            |      |
| C (%)                       | 0.09 | P (%) | 0.011 | S (%) | 0.039 | Si (%) | 0.22 | Cu (%) | 0.25 | Ni (%) | 0.10 | Cr (%) | 0.21 | Mn (%) | 0.022 | Mo (%) | 0.010 | Sn (%) | 0.010 | V (%) | 0.001 | Nb (%) | 0.020 | CEqvA6 (%) | 0.30 |

|                              |       |           |       |          |     |           |     |          |     |           |     |               |       |              |       |          |       |            |       |  |  |  |  |  |  |  |  |
|------------------------------|-------|-----------|-------|----------|-----|-----------|-----|----------|-----|-----------|-----|---------------|-------|--------------|-------|----------|-------|------------|-------|--|--|--|--|--|--|--|--|
| <b>MECHANICAL PROPERTIES</b> |       |           |       |          |     |           |     |          |     |           |     |               |       |              |       |          |       |            |       |  |  |  |  |  |  |  |  |
| YS 0.2% (PSI)                | 58152 | UTS (PSI) | 76511 | YS (MPa) | 401 | UTS (MPa) | 528 | YS (MPa) | 381 | UTS (MPa) | 510 | Y/T ratio (%) | 0.760 | G/L (Inches) | 8.000 | G/L (mm) | 200.0 | Elong. (%) | 23.30 |  |  |  |  |  |  |  |  |
|                              | 55295 |           | 73990 |          | 381 |           | 510 |          | 381 |           | 510 |               | 0.750 |              | 8.000 |          | 200.0 |            | 23.00 |  |  |  |  |  |  |  |  |

**COMMENTS / NOTES**

Gerda's steel is 100% recyclable. Support the circular economy through our Metals Recycling Partnership. For details, visit [www2.gerdau.com/metals-recycling](http://www2.gerdau.com/metals-recycling), or contact [metalsrecycling@gerdau.com](mailto:metalsrecycling@gerdau.com).



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 Gerda 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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