

Bill To:
GERDAU CORSA S A P I DE CV
KM 3 CARRETERA MEXICO-
CD SAHAGUN S/N
SAHAGUN HG
43990 MX

Ship To: 2
GERDAU CORSA S A P I DE CV
402 GRAND CENTRAL BLVD
MILO DISTRIBUTION CENTER
LAREDO TX
78045 US

Order Date:11/28/2011
PO No:4500077195
Mill Order No:3962881
Load No:1415805
Manifest No:2110067

CERTIFIED MATERIAL TEST REPORT
GERDAU AMERISTEEL
Midlothian Mill
300 Ward Road
Midlothian, TX 76065
(972) 775-8241

SPECIFICATIONS
ASTM A6-09, A992-06a, A572-07

| | | | |
|------------------------|------------|------------------|----------|
| SIZE | GRADE | LENGTH | PRODUCT |
| W 14 X 53# / W360 X 79 | 992/572-50 | 40 FT / 12.192 M | WF BEAMS |

HEAT NO: 11943600

CHEMICAL ANALYSIS

| C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Sn | V | Al | Nb | CE |
|-----|-----|------|------|-----|-----|-----|-----|------|------|------|------|------|----|
| .08 | .94 | .013 | .022 | .22 | .35 | .09 | .13 | .030 | .006 | .002 | .003 | .022 | .3 |

PHYSICAL PROPERTIES

| <u>Yield Strength</u> | | <u>Tensile Strength</u> | | <u>Specimen Area</u> | | <u>Elongation</u> | | <u>Bend Test</u> | | <u>ROA</u> |
|-----------------------|-------|-------------------------|-------|----------------------|-------|-------------------|-------------|------------------|--------|------------|
| KSI | MPa | KSI | MPa | Sq In | Sq cm | % | Gage Length | Dia. | Result | % |
| 53.9 | 371.6 | 69.9 | 481.9 | 0.979 | 6.32 | 27.4 | 8 In 200 mm | | | |
| 53.4 | 368.2 | 69.5 | 479.2 | 0.959 | 6.19 | 26.4 | 8 In 200 mm | | | |

TENSILE TEST RATIOS

| YLD/TENS | TENS/YLD | YLD/TENS | TENS/YLD |
|----------|----------|----------|----------|
| .77 | 1.3 | .77 | 1.3 |

All manufacturing processes of this product, including electric arc MELTING and continuous CASTING, occurred in the U.S.A. CMTR complies with EN 10204 3.1

"I hereby certify that the contents of this report are correct and accurate. All tests and operations performed by this material manufacturer or its sub-contractors, when applicable, are in compliance with the requirements of the material specifications and applicable purchaser designated requirements."

Signed: Tom L. Harrington Date: Dec. 28, 2011
Tom L. Harrington: Quality Assurance Manager

Signed: _____
Notary Public (if applicable)

Date: _____
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SPECIFICATIONS
ASTM A6-09, A992-06a, A572-07

| | | | |
|------------------------|------------|------------------|----------|
| SIZE | GRADE | LENGTH | PRODUCT |
| W 14 X 53# / W360 X 79 | 992/572-50 | 40 FT / 12.192 M | WF BEAMS |

HEAT NO: 22623830

CHEMICAL ANALYSIS

| | | | | | | | | | | | | | |
|-----|-----|------|------|-----|-----|-----|-----|------|------|------|------|------|-----|
| C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Sn | V | Al | Nb | CE |
| .07 | .92 | .011 | .041 | .24 | .43 | .09 | .10 | .032 | .008 | .002 | .003 | .021 | .28 |

PHYSICAL PROPERTIES

| <u>Yield Strength</u> | | <u>Tensile Strength</u> | | <u>Specimen Area</u> | | <u>Elongation</u> | | <u>Bend Test</u> | | <u>ROA</u> |
|-----------------------|-------|-------------------------|-------|----------------------|-------|-------------------|-------------|------------------|--|------------|
| KSI | MPa | KSI | MPa | Sq In | Sq cm | % | Gage Length | Dia. Result | | % |
| 56.8 | 391.6 | 73.3 | 505.4 | 0.926 | 5.97 | 24.1 | 8 In 200 mm | | | |
| 56.0 | 386.1 | 72.6 | 500.6 | 0.941 | 6.07 | 26.1 | 8 In 200 mm | | | |

TENSILE TEST RATIOS

| | | | |
|----------|----------|----------|----------|
| YLD/TENS | TENS/YLD | YLD/TENS | TENS/YLD |
| .77 | 1.29 | .77 | 1.3 |

All manufacturing processes of this product, including electric arc MELTING and continuous CASTING, occurred in the U.S.A. CMTR complies with EN 10204 3.1

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