

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

HG
MX

Ship To: 1
GERDAU CORSA S A P I DE CV
402 GRAND CENTRAL BLVD
MILO DISTRIBUTION CENTER
LAREDO TX
78045 US

Order Date:11/29/2011
PO No:4500085476
Mill Order No:3963333
Load No:1414013
Manifest No:2107834

CERTIFIED MATERIAL TEST REPORT

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

| SPECIFICATIONS | SIZE | GRADE | LENGTH | PRODUCT |
|-------------------------------|------------------------|------------|------------------|----------|
| ASTM A6-09, A992-06a, A572-07 | W 21 X 50# / W530 X 74 | 992/572-50 | 40 FT / 12.192 M | WF BEAMS |

HEAT NO: 22620820

CHEMICAL ANALYSIS

| C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Sn | V | Al | Nb | CE |
|-----|-----|------|------|-----|-----|-----|-----|------|------|------|------|------|-----|
| .08 | .91 | .011 | .039 | .23 | .35 | .09 | .07 | .033 | .008 | .001 | .003 | .024 | .28 |

PHYSICAL PROPERTIES

| Yield Strength | | Tensile Strength | | Specimen Area | | Elongation | | Bend Test | | ROA |
|----------------|-------|------------------|-------|---------------|-------|------------|-------------|-----------|--------|-----|
| KSI | MPa | KSI | MPa | Sq In | Sq cm | % | Gage Length | Dia. | Result | % |
| 54.7 | 377.1 | 71.8 | 495.0 | 0.802 | 5.17 | 23.3 | 8 In 200 mm | | | |
| 55.0 | 379.2 | 71.7 | 494.4 | 0.830 | 5.35 | 26.0 | 8 In 200 mm | | | |

TENSILE TEST RATIOS

| YLD/TENS | TENS/YLD | YLD/TENS | TENS/YLD |
|----------|----------|----------|----------|
| .76 | 1.31 | .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. 14, 2011
Tom L. Harrington: Quality Assurance Manager

Signed: _____
Notary Public (if applicable)

Date: _____

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CERTIFIED MATERIAL TEST REPORT

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

SPECIFICATIONS SIZE GRADE LENGTH PRODUCT
ASTM A6-09, A992-06a, A572-07 W 21 X 50# / W530 X 74 992/572-50 40 FT / 12.192 M WF BEAMS

HEAT NO: 22620830

CHEMICAL ANALYSIS

| C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Sn | V | Al | Nb | CE |
|-----|-----|------|------|-----|-----|-----|-----|------|------|------|------|------|-----|
| .08 | .93 | .013 | .035 | .22 | .33 | .08 | .09 | .032 | .009 | .002 | .004 | .021 | .29 |

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 | % |
| 55.6 | 383.3 | 71.7 | 494.4 | 0.812 | 5.24 | 20.3 | 8 In 200 mm | | |
| 55.8 | 384.7 | 71.8 | 495.0 | 0.817 | 5.27 | 21.4 | 8 In 200 mm | | |

TENSILE TEST RATIOS

| YLD/TENS | TENS/YLD | YLD/TENS | TENS/YLD |
|----------|----------|----------|----------|
| .78 | 1.29 | .78 | 1.29 |

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Page: 2 of 3

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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 21 X 50# / W530 X 74 | 992/572-50 | 40 FT / 12.192 M | WF BEAMS |

HEAT NO: 22620840

CHEMICAL ANALYSIS

| | | | | | | | | | | | | | |
|-----|-----|------|------|-----|-----|-----|-----|------|------|------|------|------|-----|
| C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Sn | V | Al | Nb | CE |
| .07 | .88 | .013 | .040 | .21 | .31 | .10 | .11 | .041 | .010 | .002 | .002 | .020 | .27 |

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 | % | |
| 55.6 | 383.3 | 71.7 | 494.4 | 0.807 | 5.21 | 19.4 | 8 In 200 mm | | | |
| 55.1 | 379.9 | 71.0 | 489.5 | 0.802 | 5.17 | 22.1 | 8 In 200 mm | | | |

TENSILE TEST RATIOS

| | | | |
|----------|----------|----------|----------|
| YLD/TENS | TENS/YLD | YLD/TENS | TENS/YLD |
| .78 | 1.29 | .78 | 1.29 |

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