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

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

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

GE GERDAU AMERISTEEL

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

W 21 X 50# / W530 X 74

78045

GRADE 992/572-50

US

LENGTH 40 FT / 12.192 M PRODUCT WF BEAMS

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

**HEAT NO: 22620820** 

SPECIFICATIONS

43990

CHEMICAL ANALYSIS

C Mn S Si Cu Νi  $\operatorname{cr}$ Mo snΑl Nb CE .08 .91 .011 .039 .23 .35 .09 .07 .033 .008 .003 .024 .001 .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

MX

SIZE

.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."

Date: Dec. 14, 2011 Signed: Signed: Tom L. Harrington: Quality Assurance Manager

Notary Public (if applicable)

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Page:

Date:

Bill To: CERTIFIED MATERIAL TEST REPORT Ship To: 1 Order Date:11/29/2011 GERDAU CORSA S A P I DE CV GERDAU CORSA S A P I DE CV PO No:4500085476 GERDAU AMERISTEEL KM 3 CARRETERA MEXICO-402 GRAND CENTRAL BLVD Mill Order No:3963333 Midlothian Mill GO GERDAU AMERISTEEL CD SAHAGUN S/N MILO DISTRIBUTION CENTER Load No:1414013 300 Ward Road SAHAGUN HG LAREDO TX Manifest No:2107834 Midlothian, TX 76065 43990 MΧ 78045 US (972)775-8241 SIZE GRADE LENGTH PRODUCT W 21 X 50# / W530 X 74 992/572-50 40 FT / 12.192 M WF BEAMS SPECIFICATIONS ASTM A6-09, A992-06a, A572-07 **HEAT NO: 22620830** CHEMICAL ANALYSIS Mn P S Si Cu Νi  $\operatorname{Cr}$ Мо  $\operatorname{Sn}$ Al Nb CE .08 .93 .013 .035 .22 .33 .08 .09 .032 .009 .002 .004 .021 .29 PHYSICAL PROPERTIES Yield Strength Tensile Strength Specimen Area Elongation Bend Test ROA KSI **MPa** KSI Sq In MPa 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 71.8 384.7 495.0 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

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."

Date: Dec. 14, 2011 Signed: Date: Tom L. Harrington: Quality Assurance Manager Notary Public (if applicable) Page: 2 of

Bill To: GERDAU CORSA S A P I DE CV KM 3 CARRETERA MEXICO-CD SAHAGUN S/N Ship To: 1
GERDAU CORSA S A P I DE CV
402 GRAND CENTRAL BLVD
MILO DISTRIBUTION CENTER
LAREDO TX

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

GE GERDAU AMERISTEEL

L 300 Ward Road Midlothian, TX 76065 (972)775-8241

SIZE

HG

MΧ

W 21 X 50# / W530 X 74

78045

LENGTH 40 FT / 12.192 M PRODUCT WF BEAMS

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

HEAT NO: 22620840

SAHAGUN

SPECIFICATIONS

43990

Mn S Si Νi  $\mathtt{Cr}$ Мо Al Nb CE .07 .013 .88 .040 .21 .31 .10 .11 .041 .010 .002 .002 .020 .27

US

GRADE

992/572-50

PHYSICAL PROPERTIES

CHEMICAL ANALYSIS

Yield Strength		Tensile Strength		Specimen Area		Elongation			Bend Test	ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	8	Gage Ler	ıgth	Dia. Result	<del></del>
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

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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Tom L. Harrington: Quality Assurance Manager

Signed:

Notary Public (if applicable)

Date:\_\_

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