Bill To: SIDERTUL SA DE CV RFC# SID930918KR0 AVENIDA PRESIDENTE MASARYK

MEXICO CITY

SPECIFICATIONS

11570

Ship To: 7 SIDERTUL SA DE CV 402 GRAND CENTRAL BLVD MILO DISTRIBUTION CENTER LAREDO TXUS

Order Date:06/17/2011 PO No:4500012651 Mill Order No:3899414 Load No:1399311

GE GERDAU AMERISTEEL

GERDAU AMERISTEEL Midlothian Mill 300 Ward Road Midlothian, TX 76065

(972)775-8241

 $_{
m DF}$ MΧ

78045

Manifest No:2093971

SIZE GRADE W 16 X 31# / W410 X 46.1 992/572-50

LENGTH 40 FT / 12.192 M PRODUCT WF BEAMS

CERTIFIED MATERIAL TEST REPORT

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

HEAT NO: 22608910

CHEMICAL ANALYSIS

C Mn Ρ S Si Cu Νi CrМо Sn Al Nb CE .07 .86 .016 .21 .38 .09 .13 .027 .011 .001 .003 .28 .032 .016

PHYSICAL PROPERTIES

Yield Str	rength	Tensile	Strength	Specime	en Area	Elo	ngation		Bend Test	ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Lei	ngth	Dia. Result	8
58.0	399.9	72.2	497.8	0.410	2.65	24.2	8 In	200 mm		
59.7	411.6	73.8	508.8	0.399	2.57	23.5	8 In	200 mm		

TENSILE TEST RATIOS

YLD/TENS TENS/YLD YLD/TENS TENS/YLD

. 8 1.24 .81 1.23

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."

Janu _ _ Date: Sep. 22, 2011 Signed: Date: Tom L. Harrington: Quality Assurance Manager Notary Public (if applicable)

Page: 1 of Bill To: SIDERTUL SA DE CV RFC# SID930918KR0 AVENIDA PRESIDENTE MASARYK MEXICO CITY DF

Ship To: 7 SIDERTUL SA DE CV 402 GRAND CENTRAL BLVD MILO DISTRIBUTION CENTER LAREDO TX

Order Date:06/17/2011 PO No:4500012651 Mill Order No:3899414

Load No:1399311 Manifest No:2093971

CERTIFIED MATERIAL TEST REPORT GERDAU AMERISTEEL

GERDAU AMERISTEEL

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

SPECIFICATIONS

11570

GRADE SIZE W 16 X 31# / W410 X 46.1 992/572-50

78045

LENGTH 40 FT / 12.192 M PRODUCT WF BEAMS

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

HEAT NO: 22608930

CHEMICAL ANALYSIS

US

С Mn Ρ S Si Cu Νi CrМо Sn Al Nb CE .07 .90 .018 .031 .20 .34 .19 .16 .045 .009 .003 .003 .017 . 3

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		Elongation_			Bend Test	ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	8	Gage Lei	ngth	Dia. Result	 %
59.7	411.6	73.6	507.5	0.404	2.61	26.6	8 In	200 mm		
60.2	415.1	74.5	513.7	0.402	2.59	25.8	8 In	200 mm		

TENSILE TEST RATIOS

YLD/TENS TENS/YLD YLD/TENS TENS/YLD

MΧ

.81 1.23 .81 1.24

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: Signed:

Notary Public (if applicable)

Date:

Page:

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Bill To: SIDERTUL SA DE CV RFC# SID930918KR0 AVENIDA PRESIDENTE MASARYK MEXICO CITY

Ship To: 7 SIDERTUL SA DE CV 402 GRAND CENTRAL BLVD MILO DISTRIBUTION CENTER LAREDO TX78045 US

Order Date:06/17/2011 PO No:4500012651 Mill Order No:3899414

Manifest No:2093971

Load No:1399311

GE GERDAU AMERISTEEL

CERTIFIED MATERIAL TEST REPORT GERDAU AMERISTEEL Midlothian Mill

300 Ward Road

Midlothian, TX 76065 (972)775-8241

SIZE

 DF

MX

GRADE

LENGTH 40 FT / 12.192 M PRODUCT WF BEAMS

SPECIFICATIONS

HEAT NO: 22608970

11570

W 16 X 31# / W410 X 46.1

992/572-50

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

CHEMICAL ANALYSIS

С Ρ S Mn Si Cu Νi CrMo Sn Al Nb CE .07 .92 .012 .032 .21 .28 .11 .13 .032 .008 .002 .003 .019 .28

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		Elongation			Bend Test	ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Ler	ngth	Dia. Result	~~~ %
59.5	410.2	73.7	508.1	0.403	2.60	25.8	8 In	200 mm		
60.0	413.7	73.8	508.8	0.405	2.61	24.1	8 Tn	200 mm		

TENSILE TEST RATIOS

YLD/TENS TENS/YLD YLD/TENS TENS/YLD

.81 1.24 .81 1.23

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Signed _______Date: Sep. 22, 2011
Tom L. Harrington: Quality Assurance Manager Signed: Date: Notary Public (if applicable)

> Page: 4 of