Bill To: SIDERTUL SA DE CV RFC# SID930918KR0 AVENIDA PRESIDENTE MASARYK MEXICO CITY DF LAREDO 11570 MX 78045 SIZE SPECIFICATIONS

Ship To: 5 SIDERTUL SA DE CV 402 GRAND CENTRAL BLVD MILO DISTRIBUTION CENTER US

Order Date:02/03/2011 PO No:4500000570 Mill Order No:3855532 Load No:1375030 Manifest No:2071356

CERTIFIED MATERIAL TEST REPORT GERDAU AMERISTEEL Midlothian Mill

CHI GERDAU AMERISTEEL

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

W 16 X 45# / W410 X 67

GRADE 992/572-50

LENGTH 40 FT / 12.192 M PRODUCT WF BEAMS

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

HEAT NO: 22591010

CHEMICAL ANALYSIS C Mn P S Si

Cu Ni CrМо Sn V Al Nb CE .06 .91 .014 .015 .24 .37 .09 .14 .029 .011 .002 .003 .018 .28

PHYSICAL PROPERTIES

and a hour con-										
Yield Strength		<u>Tensile Strength</u>		Specimen Area		Elongation			73 1 .m	
KSI	MPa	KSI	MPa	Sq In	Sq cm	*	Gage Ler	arth	<u>Bend Test</u> Dia. Result	ROA
56.4	388.9	72.1	497.1	0.776	5.01	25.5	8 In	200 mm	Dia. Result	ř
55.9	385.4	71.7	494.4	0.780	5.03	25.9	8 In	200 mm		
							O -1.41	200 11111		

TENSILE TEST RATIOS

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

.78 1.28 .78 1.28

All manufacturing processes of this product, including electric arc MELTING and continuous CASTING, occurred in the U.S.A.

"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."

Tom L. Harrington: Quality Assurance Manager Signed: Signed: Date: Notary Public (if applicable)

> Page: 1 of

Bill To: SIDERTUL SA DE CV RFC# SID930918KR0 AVENIDA PRESIDENTE MASARYK MEXICO CITY DF 11570

Ship To: 5 SIDERTUL SA DE CV 402 GRAND CENTRAL BLVD MILO DISTRIBUTION CENTER LAREDO

Order Date:02/03/2011 PO No:4500000570 Mill Order No:3855532 Load No:1375030 Manifest No:2071356

CERTIFIED MATERIAL TEST REPORT GERDAU AMERISTEEL. Midlothian Mill

GERDAU AMERISTEEL

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

SIZE W 16 X 45# / W410 X 67

.25

78045

MX

.023

GRADE 992/572-50

.028

TX

US

.13

LENGTH 40 FT / 12.192 M PRODUCT WF BEAMS

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

.86

HEAT NO: 22591020

SPECIFICATIONS

CHEMICAL ANALYSIS C Mn P s Si Cu Ni CrMo Sn V . .07

.09

.37

Al Nb CE .008 .002 .002 .018 .28

## PHYSICAL PROPERTIES

Yield Strength		PP 1.3	4.							
		Tensile Strength		Specimen Area		Elongation				
KSI	MPa	KSI	MPa	Sq In		0.			<u>Bend Test</u> Dia. Result	ROA
56.0 386 1	386.1	m= 0		-4 ***	Sq cm	5	Gage Length			
	300.I	71.9	495.7	0.811	5.23	26.3	0.7		a. Redage	ъ
56.0	386.1	72.3	498.5		2.23	20.3	8 In	200 mm		
		72.3	430.5	0.802	5.17	25.5	8 In	200 mm		
THE PARTY IN	mnom						0 711	200 11111		

TENSILE TEST RATIOS

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

.012

.78 1.29 .77 1.29

All manufacturing processes of this product, including electric arc MELTING and continuous CASTING, occurred in the U.S.A.

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Signed: Date: May. 13, 2011 Signed: Tom L. Harrington: Quality Assurance Manager Date: Notary Public (if applicable) Page: 2 of Bill To: SIDERTUL SA DE CV RFC# SID930918KR0 AVENIDA PRESIDENTE MASARYK MEXICO CITY DF

Ship To: 5
SIDERTUL SA DE CV
402 GRAND CENTRAL BLVD
MILO DISTRIBUTION CENTER
LAREDO TX

Order Date:02/03/2011 PO No:4500000570 Mill Order No:3855532 Load No:1375030 Manifest No:2071356 CERTIFIED MATERIAL TEST REPORT

GERDAU AMERISTEEL

Midlothian Mill

GERDAU AMERISTEEL

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

MX

78045

W 16 X 45# / W410 X 67

GRADE 992/572-50

US

LENGTH 40 FT / 12.192 M

PRODUCT WF BEAMS

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

HEAT NO: 22591050

SPECIFICATIONS

11570

CHEMICAL ANALYSIS C Р S Si. Ni CrMo Sn ν Al Nb CE .07 .90 .011 .022 .27 .33 .10 .12 .029 .009 .002 .003 .019 .28

PHYSICAL PROPERTIES

30° 33 -										
Yield Strength		Tensile Strength		Specimen Area		Elongation			D==3 m==+	
KSI	MPa	KSI	MPa	Sq In	Sa cm	뭄	Gage Ler	art h	Bend Test	ROA
56.7	390.9	73.1	504.0	0.777	5.01	36 4	_		Dia. Result	윰
56.1	386.8	72.6	500.6			26.4	8 In	200 mm		
	<del>-</del>	72.0	72.0 500.0 0.	0.773	4.99	27.0	8 In 200 mm	200 mm		

TENSILE TEST RATIOS

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

.78 1.29 .77 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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