Bill To: SIDERTUL SA DE CV RFC# SID930918KRO AVENIDA PRESIDENTE MASARYK DF MEXICO CITY XM11570

Ship To: 1 SIDERTUL SA DE CV 402 GRAND CENTRAL BLVD MILO DISTRIBUTION CENTER LAREDO TX US

Order Date:02/18/2011 PO No:4500000574 Mill Order No:3860076 Load No:1385580

Manifest No:2081612

GERDAU AMERISTEEL GERDAU AMERISTEEL

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

SIZE SPECIFICATIONS

W 24 X 62# / W610 X 92

78045

LENGTH 40 FT / 12.192 M

PRODUCT WF BEAMS

CERTIFIED MATERIAL TEST REPORT

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

HEAT NO: 22587380

CHEMICAL ANALYSIS

Mo Sn Al Nb CE C Mn Si Cu Νi Cr .021 .32 .36 .10 .11 .031 .018 .003 .003 .015 .23 1.06 .033 .08

PHYSICAL PROPERTIES

										
Yield Strength		Tensile Strength		Specimen Area		Elongation			Bend Test	<u>ROA</u>
KSI	MPa	KSI	MPa	Sq In	Sq cm	ફ	Gage Lei	ngth	Dia. Result	ફ
58.8	405.4	77.4	533.7	0.853	5.50	25.2	8 In	200 mm		
58 6	404 0	77.5	534.3	0.841	5.43	25.8	8 In	200 mm		

GRADE

992/572-50

TENSILE TEST RATIOS

YLD/TENS

.76

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."

Tom L. Harrington: Quality Assurance Manager Signed:

Notary Public (if applicable)

Date:

5 Page: 1 of

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

Ship To: 1 SIDERTUL SA DE CV 402 GRAND CENTRAL BLVD MILO DISTRIBUTION CENTER TXLAREDO

Order Date:02/18/2011 PO No:4500000574 Mill Order No:3860076 Load No:1385580

GERDAU AMERISTEEL

CERTIFIED MATERIAL TEST REPORT GERDAU AMERISTEEL Midlothian Mill

300 Ward Road Midlothian, TX 76065

78045

Manifest No:2081612

(972)775-8241

GRADE LENGTH SIZE 992/572-50 40 FT / 12.192 M W 24 X 62# / W610 X 92

US

PRODUCT WF BEAMS

SPECIFICATIONS

HEAT NO: 22588510

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

CHEMICAL ANALYSIS

С	Mn	Р	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
			.023										

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		<u>Elongation</u>			Bend Test	ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	육	Gage Ler	ngth	Dia. Result	8
60.8	419.2	78.3	539.9	0.874	5.64	25.1	8 In	200 mm		
62 1	428 2	79.0	544.7	0.848	5.47	24.6	8 In	200 mm		

TENSILE TEST RATIOS YLD/TENS YLD/TENS .79 .78

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: Date: Notary Public (if applicable) 5 2 of Page:

CERTIFIED MATERIAL TEST REPORT Ship To: 1 Order Date:02/18/2011 Bill To: PO No:4500000574 GERDAU AMERISTEEL SIDERTUL SA DE CV SIDERTUL SA DE CV Mill Order No:3860076 Midlothian Mill 402 GRAND CENTRAL BLVD RFC# SID930918KR0 AVENIDA PRESIDENTE MAŠARYK MILO DISTRIBUTION CENTER Load No:1385580 300 Ward Road GO GERDAU AMERISTEEL Manifest No:2081612 DFLAREDO Midlothian, TX 76065 MEXICO CITY MX 78045 US 11570 (972)775-8241GRADE LENGTH PRODUCT SIZE 40 FT / 12.192 M WF BEAMS W 24 X 62# / W610 X 92 992/572-50 SPECIFICATIONS ASTM A6-09, A992-06a, A572-07 HEAT NO: 22596740 CHEMICAL ANALYSIS Νi Мо Sn v Al Nb CE С Mn S Si Cu Cr.009 .002 .003 .020 .3 .34 .09 .028 .09 .85 .016 .020 .22 .15

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	ક્ષ
54.9	378.5	70.6	486.8	0.861	5.55	26.7	8 In	200 mm		
517	377 1	72.1	497.1	0.866	5 59	24 7	8 Tn	200 mm		

TENSILE TEST RATIOS YLD/TENS YLD/TENS .76 .78

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: Date: Notary Public (if applicable)

Page:

3 of

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

Ship To: 1 SIDERTUL SA DE CV 402 GRAND CENTRAL BLVD MILO DISTRIBUTION CENTER LAREDO TX US

Order Date:02/18/2011 PO No:4500000574 Mill Order No:3860076 Load No:1385580 Manifest No:2081612

CERTIFIED MATERIAL TEST REPORT GERDAU AMERISTEEL Midlothian Mill

GERDAU AMERISTEEL

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

SIZE

78045

W 24 X 62# / W610 X 92

LENGTH

40 FT / 12.192 M

PRODUCT WF BEAMS

SPECIFICATIONS

HEAT NO: 22596750

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

CHEMICAL ANALYSIS

Ni Мо Sn Al Νb CE С Mn Ρ S Si Cu Cr.002 .003 .023 .29 .037 .30 .11 .033 .013 .08 .87 .016 .41 .10

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		Elongation			Bend Test	ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	용	Gage Ler	ngth	Dia. Result	ક્ર
56.5	389.6	73.6	507.5	0.854	5.51	23.7	8 In	200 m	m	
56.5	389.6	74.0	510.2	0.875	5.65	23.3	8 In	200 m	m	

GRADE

992/572-50

TENSILE TEST RATIOS YLD/TENS YLD/TENS .76 .77

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Tom L. Harrington: Quality Assurance Manager Signed:

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Date:

Page: 4 of