ill To: ERDAU CORSA S A P I DE CV M 3 CARRETERA MEXICO-D SAHAGUN S/N AHAGUN HG 3990 MΧ

Ship To: 2 GERDAU CORSA S A P I DE CV 402 GRAND CENTRAL BLVD MILO DISTRIBUTION CENTER LAREDO បន

Order Date:12/19/2011 PO No:4500090955 Mill Order No:3975960 Load No:1422642

Manifest No:2116982

GERDAU AMERISTEEL G GERDAU AMERISTEEL

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

SIZE PECIFICATIONS

GRADE 992/572-50 W 21 X 50# / W530 X 74

78045

LENGTH 40 FT / 12.192 M PRODUCT WF BEAMS

CERTIFIED MATERIAL TEST REPORT

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

HEAT NO: 22628660

CHEMICAL ANALYSIS

Mn P S Si Cu Ni Cr Mo Sn v Αl Nb CE .08 .005 .91 .014 .011 .29 .34 .10 .12 .029 .008 .002 .020 .29

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		Elongation		Bend Test	ROA	
KSI	MPa	KSI	MPa	Sq In	Sq cm	용	Gage Length		Dia. Result	8
57.7	397.8	76.1	524.7	0.793	5.12	24.5	8 In	200 mm		
55.6	383.3	74.8	515.7	0.806	5.20	24.3	8 In	200 mm		

TENSILE TEST RATIOS

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

.76 1.32 .74 1.34

11 manufacturing processes of this product, including electric arc MELTING and continuous CASTING, occurred in the U.S.A. MTR 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 aterial manufacturer or its sub-contractors, when applicable, are in compliance with the requirements of the material pecifications and applicable purchaser designated requirements."

Date: Feb. 02, 2012 Signed: Date: Tom L. Harrington: Quality Assurance Manager Notary Public (if applicable)

Page: 1 of ill To: CERTIFIED MATERIAL TEST REPORT Ship To: 2 Order Date:12/19/2011 ERDAU CORSA S A P I DE CV GERDAU CORSA S A P I DE CV PO No:4500090955 GERDAU AMERISTEEL M 3 CARRETERA MEXICO-402 GRAND CENTRAL BLVD Mill Order No:3975960 Midlothian Mill GE GERDAU AMERISTEEL D SAHAGUN S/N MILO DISTRIBUTION CENTER Load No:1422642 300 Ward Road AHAGUN HG LAREDO TΧ Manifest No:2116982 Midlothian, TX 76065 3990 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 **PECIFICATIONS** STM A6-09, A992-06a, A572-07 **HEAT NO: 22628670** CHEMICAL ANALYSIS C P S Mn Si Ni Cu $\operatorname{\mathtt{Cr}}$ Mo snV Al Nb CE .08 .91 .016 .039 .26 .32 .09 .15 .030 .007 .002 .004 .018 .3 PHYSICAL PROPERTIES Yield Strength Tensile Strength Specimen Area Elongation Bend Test ROA KSI MPa KSI Sq In MPa Sq cm Gage Length Dia. Result 55.3 381.3 73.9 509.5 0.804 5.19 25.8 8 In 200 mm 54.6 376.5 73.7 508.1 0.801 5.17 25.0 8 In 200 mm TENSILE TEST RATIOS

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

.75 1.34 .74 1.35

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