

Bill To:
SIDERTUL SA DE CV
RFC# SID920918KRO
AVENIDA PRESIDENTE MASARYK
MEXICO CITY
11570

Ship To: 1
SIDERTUL SA DE CV
402 GRAND CENTRAL BLVD
MILO DISTRIBUTION CENTER
LASEDO
78045

Order Date: 03/31/2010
PO No: GERDAU CORSA
Mill Order No: 3720106
Lead No: 1319478
Manifest No: 2318210

CERTIFIED MATERIAL TEST REPORT
GERDAU AMERISTEEL
Midlothian Mill
300 Ward Road
Midlothian, TX 76065
(972) 775-8241

SPECIFICATIONS
ASTM A5-05a, A992-06a, A572-06

SIZE
W 21 X 44# / W530 X 66

GRADE
992/572-50

LENGTH
40 FT / 12.192 M

PRODUCT
WF BEAMS

HEAT NO: 22538630

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.08	.88	.012	.023	.20	.31	.09	.09	.029	.011	.001	.003	.021	.28

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		Elongation		Band Test	BOB
KSI	MPa	KSI	MPa	Sq in	Sq cm	%	Gage Length	Dia. Result	%
57.3	395.1	73.3	505.4	0.650	4.19	21.7	8 in 200 mm		
56.8	391.6	73.3	505.4	0.676	4.26	23.8	8 in 200 mm		

TENSILE TEST RATIOS

YLD/TENS YLD/TENS
.77 .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

"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."

Signed: Tom L. Harrington Date: Jul. 26, 2010 Signed: _____ Date: _____
Tom L. Harrington: Quality Assurance Manager Notary Public (if applicable)

Page: 1 of 10

Bill To:
SIDERUL SA DE CV
RFC# SID930913KRO
AVENIDA PRESIDENTE MASAREK
MEXICO CITY DF
11570 MX

Ship To: 1
SIDERUL SA DE CV
402 GRAND CENTRAL BLVD
MILO DISTRIBUTION CENTER
LAREDO TX
78045 US

Order Date: 03/31/2010
PO No: GERDAU CONSR
Mill Order No: 3720106
Load No: 1319479
Manifest No: 2018210

CERTIFIED MATERIAL TEST REPORT
GERDAU AMERISTEEL
Midlothian Mill
300 Ward Road
Midlothian, TX 76065
(972) 775-8241

SIZE GRADE LENGTH PRODUCT
W 21 X 44# / S530 X 66 592/572-50 40 FT / 12.192 M WF BEAMS

SPECIFICATIONS
ASTM A6-95a, A992-96a, A572-06

HEAT NO: 22538640

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.06	.93	.012	.020	.22	.29	.09	.11	.029	.011	.001	.003	.021	.29

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		Elongation		Hard Test	ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia. Result	%
57.9	399.2	75.4	519.9	0.617	3.98	24.6	8 In 200 mm		
58.6	404.0	76.4	526.8	0.679	4.37	23.4	8 In 200 mm		

TENSILE TEST RATIOS

YLD/TENS
.77

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Tom L. Harrington: Quality Assurance Manager

Signed: _____
Notary Public (if applicable)

Date: _____
Page: 2 of 10

Bill To:
SIDERTUL SA DE CV
RPCI SID930918KRO
AVENIDA PRESIDENTE MASAREK
MEXICO CITY DF
11570 MK

Ship To: 1
SIDERTUL SA DE CV
402 GRAND CENTRAL BLVD
MILO DISTRIBUTION CENTER
LAREDO TX
78045 US

Order Date: 03/31/2010
PO No: GERDAU CORSA
Mill Order No: 3720106
Load No: 1319476
Manifest No: 2018210

CERTIFIED MATERIAL TEST REPORT
GERDAU AMERISTEEL
Midlothian Mill
306 Ward Road
Midlothian, TX 76065
(972) 775-8241

SPECIFICATIONS
ASTM A8-05a, A992-05a, A572-06

SIZE
W 21 X 44# / W530 X 66

GRADE
992/572-50

LENGTH
40 FT / 12.192 M

PRODUCT
WF BEAMS

HEAT NO: 22538870

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.08	.93	.016	.033	.26	.29	.09	.14	.030	.009	.002	.004	.021	.29

PHYSICAL PROPERTIES

<u>Yield Strength</u>		<u>Tensile Strength</u>		<u>Specimen Area</u>		<u>Elongation</u>		<u>Band Test</u>	<u>ROA</u>
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia. Result	%
59.1	409.6	75.5	520.6	0.618	3.99	24.3	6 In 200 mm		
58.5	403.3	76.3	526.1	0.649	4.19	24.0	9 In 200 mm		

TENSILE TEST RATIOS

YLD/TENS
.77

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Signed: Tom L. Harrington Date: Jan. 26, 2010 Signed: _____ Date: _____
Tom L. Harrington: Quality Assurance Manager Notary Public (if applicable)

Bill To:
 SIDERTUL SA DE CV
 RFC# SID93C918KRC
 AVENIDA PRESIDENTE MASARYK
 MEXICO CITY DP
 11570 MX

Ship To: 1
 SIDERTUL SA DE CV
 402 GRAND CENTRAL BLVD
 MILO DISTRIBUTION CENTER
 LAREDO TX
 78045 US

Order Date: 03/31/2016
 PO No: GERDAU CORSA
 Mill Order No: 3720106
 Load No: 1319476
 Manifest No: 2018210

CERTIFIED MATERIAL TEST REPORT
GERDAU AMERISTEEL
 Midlothian Mill
 300 Ward Road
 Midlothian, TX 76065
 (972) 775-8241

SPECIFICATIONS
 ASTM A5-05a, A992-06a, A572-06

SIZE
 W 21 X 44# / W530 X 66

GRADE
 992/572-50

LENGTH
 40 FT / 12.192 M

PRODUCT
 WF BEAMS

HEAT NO: 22555120

CHEMICAL ANALYSIS

C	Mn	P	S	SI	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.07	.95	.017	.031	.28	.38	.10	.14	.033	.013	.001	.003	.017	.3

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		Elongation		Band Test	ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia. Result	%
56.6	390.2	74.4	513.0	0.643	4.15	24.0	8 In 200 mm		
57.2	394.4	73.7	508.1	0.662	4.27	25.7	8 In 200 mm		

TENSILE TEST RATIOS

YLD/TENS YLD/TENS
 .76 .78

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Signed: Tom L. Harrington Date: Jul. 26, 2016
 Tom L. Harrington: Quality Assurance Manager

Signed: _____ Date: _____
 Notary Public (if applicable)

Bill To:
SIDERTUL SA DE CV
RFC# SID910918KRO
AVENIDA PRESIDENTE MASARYK
MEXICO CITY
11570

Ship To: 1
SIDERTUL SA DE CV
462 GRAND CENTRAL BLVD
MILO DISTRIBUTION CENTER
LAREDO
79045

Order Date: 03/31/2010
PO No: GERDAU CORSA
Mill Order No: 3729166
Load No: 1319478
Manifest No: 2318210

CERTIFIED MATERIAL TEST REPORT
GERDAU AMERISTEEL
Midlothian Mill
300 Ward Road
Midlothian, TX 76065
(972) 715-8241

SIZE: W 21 X 44# / W530 X 56
GRADE: 992/572-50
LENGTH: 40 FT / 12.192 M
SPECIFICATIONS: ASTM A6-05a, A992-06a, A572-06
PRODUCT: WF BEAMS

HEAT NO: 22555130

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.07	.90	.011	.032	.23	.32	.10	.11	.036	.010	.002	.004	.017	.28

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		Elongation		Bend Test	ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Cage Length	Dir. Result	%
53.1	366.1	70.2	484.0	0.658	4.25	26.6	8 In 200 mm		
54.9	378.5	71.2	490.9	0.647	4.17	26.4	8 In 200 mm		

TENSILE TEST RATIOS

YLD/TENS YLD/TENS
.76 .77

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Notary Public (if applicable)

Page: 10 of 10