

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

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

Order Date:03/09/2011
PO No:4500000579
Mill Order No:3866781
Load No:1390945
Manifest No:2086228

CERTIFIED MATERIAL TEST REPORT



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

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

SIZE	GRADE	LENGTH	PRODUCT
W 16 X 40# / W410 X 60	992/572-50	40 FT / 12.192 M	WF BEAMS

HEAT NO: 22600090

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.08	.97	.020	.045	.29	.34	.09	.14	.031	.014	.003	.003	.021	.31

PHYSICAL PROPERTIES

<u>Yield Strength</u>		<u>Tensile Strength</u>		<u>Specimen Area</u>		<u>Elongation</u>		<u>Bend Test</u>		<u>ROA</u>
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia.	Result	%
58.9	406.1	75.0	517.1	0.690	4.45	24.9	8 In 200 mm			
58.6	404.0	74.8	515.7	0.681	4.39	25.2	8 In 200 mm			

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.79	1.27	.78	1.28

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: Aug. 04, 2011
Tom L. Harrington: Quality Assurance Manager

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

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

SIZE	GRADE	LENGTH	PRODUCT
W 16 X 40# / W410 X 60	992/572-50	40 FT / 12.192 M	WF BEAMS

HEAT NO: 22600100

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.07	.94	.019	.044	.25	.37	.09	.15	.034	.009	.002	.004	.018	.29

PHYSICAL PROPERTIES

<u>Yield Strength</u>		<u>Tensile Strength</u>		<u>Specimen Area</u>		<u>Elongation</u>		<u>Bend Test</u>		<u>ROA</u>
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia. Result	%	
56.1	386.8	73.2	504.7	0.671	4.33	25.2	8 In 200 mm			
57.0	393.0	73.6	507.5	0.682	4.40	25.4	8 In 200 mm			

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.77	1.31	.77	1.29

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300 Ward Road
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SPECIFICATIONS
ASTM A6-09, A992-06a, A572-07

SIZE	GRADE	LENGTH	PRODUCT
W 16 X 40# / W410 X 60	992/572-50	40 FT / 12.192 M	WF BEAMS

HEAT NO: 22600110

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.07	.86	.016	.043	.21	.36	.09	.13	.036	.007	.002	.002	.021	.28

PHYSICAL PROPERTIES

<u>Yield Strength</u>		<u>Tensile Strength</u>		<u>Specimen Area</u>		<u>Elongation</u>		<u>Bend Test</u>		<u>ROA</u>
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia. Result	%	
57.9	399.2	73.6	507.5	0.690	4.45	25.9	8 In 200 mm			
57.9	399.2	73.9	509.5	0.681	4.39	24.9	8 In 200 mm			

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.79	1.27	.78	1.28

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

SIZE	GRADE	LENGTH	PRODUCT
W 16 X 40# / W410 X 60	992/572-50	40 FT / 12.192 M	WF BEAMS

HEAT NO: 22600140

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.08	.86	.012	.023	.25	.39	.10	.09	.030	.009	.002	.003	.020	.28

PHYSICAL PROPERTIES

<u>Yield Strength</u>		<u>Tensile Strength</u>		<u>Specimen Area</u>		<u>Elongation</u>		<u>Bend Test</u>		<u>ROA</u>
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia. Result	%	
58.1	400.6	74.0	510.2	0.688	4.44	25.2	8 In 200 mm			
57.9	399.2	73.7	508.1	0.682	4.40	24.6	8 In 200 mm			

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.78	1.27	.79	1.27

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

SIZE	GRADE	LENGTH	PRODUCT
W 16 X 40# / W410 X 60	992/572-50	40 FT / 12.192 M	WF BEAMS

HEAT NO: 22600160

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.09	.85	.010	.042	.27	.39	.10	.10	.031	.008	.002	.003	.018	.29

PHYSICAL PROPERTIES

<u>Yield Strength</u>		<u>Tensile Strength</u>		<u>Specimen Area</u>		<u>Elongation</u>		<u>Bend Test</u>		<u>ROA</u>
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia. Result	%	
56.8	391.6	74.5	513.7	0.692	4.46	25.1	8 In 200 mm			
58.2	401.3	75.8	522.6	0.693	4.47	27.2	8 In 200 mm			

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.76	1.31	.77	1.3

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SIZE	GRADE	LENGTH	PRODUCT
W 16 X 40# / W410 X 60	992/572-50	40 FT / 12.192 M	WF BEAMS

HEAT NO: 2259988M

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.07	.87	.012	.027	.25	.35	.10	.11	.030	.012	.001	.003	.018	.27

PHYSICAL PROPERTIES

<u>Yield Strength</u>		<u>Tensile Strength</u>		<u>Specimen Area</u>		<u>Elongation</u>		<u>Bend Test</u>		<u>ROA</u>
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia. Result	%	
53.9	371.6	75.2	518.5	0.681	4.39	25.2	8 In 200 mm			
54.9	378.5	75.1	517.8	0.689	4.45	24.8	8 In 200 mm			

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.72	1.39	.73	1.37

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