

Bill To:
 GERDAU CORSA S A P I DE CV
 KM 3 CARRETERA MEXICO-
 CD SAHAGUN S/N
 SAHAGUN
 43990

HG
 MX

Ship To: 1
 GERDAU CORSA S A P I DE CV
 402 GRAND CENTRAL BLVD
 MILO DISTRIBUTION CENTER
 LAREDO TX
 78045 US

Order Date:11/29/2011
 PO No:4500085476
 Mill Order No:3963328
 Load No:1413736
 Manifest No:2107522

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 18 X 60# / W460 X 89	992/572-50	40 FT / 12.192 M	WF BEAMS

HEAT NO: 22614330

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.07	1.03	.012	.019	.27	.42	.09	.13	.029	.008	.002	.004	.019	.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	%
54.2	373.7	69.8	481.3	0.995	6.42	24.1	8 In 200 mm		
54.2	373.7	69.3	477.8	1.009	6.51	24.8	8 In 200 mm		

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.78	1.29	.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: Dec. 13, 2011
 Tom L. Harrington: Quality Assurance Manager

Signed: _____
 Notary Public (if applicable)

Date: _____
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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 18 X 60# / W460 X 89	992/572-50	40 FT / 12.192 M	WF BEAMS

HEAT NO: 22614350

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.08	.96	.014	.014	.26	.42	.10	.13	.033	.009	.002	.004	.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	%
55.6	383.3	72.0	496.4	1.001	6.46	26.0	8 In 200 mm		
55.2	380.6	71.5	493.0	1.013	6.54	25.4	8 In 200 mm		

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.77	1.3	.77	1.29

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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 18 X 60# / W460 X 89	992/572-50	40 FT / 12.192 M	WF BEAMS

HEAT NO: 22614360

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.08	.90	.011	.017	.28	.32	.09	.12	.031	.007	.002	.004	.023	.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		%
55.6	383.3	72.1	497.1	0.991	6.39	24.0	8 In 200 mm			
56.0	386.1	71.7	494.4	0.983	6.34	25.6	8 In 200 mm			

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.77	1.3	.78	1.28

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GERDAU AMERISTEEL

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

SPECIFICATIONS SIZE GRADE LENGTH PRODUCT
ASTM A6-09, A992-06a, A572-07 W 18 X 60# / W460 X 89 992/572-50 40 FT / 12.192 M WF BEAMS

HEAT NO: 22621340

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.08	.87	.014	.043	.23	.44	.10	.12	.036	.011	.002	.003	.021	.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	%
52.4	361.3	70.3	484.7	0.990	6.39	24.6	8 In 200 mm			
54.8	377.8	72.3	498.5	0.988	6.37	24.5	8 In 200 mm			

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.75	1.34	.76	1.32

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

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

SIZE	GRADE	LENGTH	PRODUCT
W 18 X 60# / W460 X 89	992/572-50	40 FT / 12.192 M	WF BEAMS

HEAT NO: 2261540M

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Al	Nb	CE
.08	.88	.013	.035	.23	.34	.09	.12	.031	.007	.002	.003	.019	.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	%
53.7	370.2	71.2	490.9	0.988	6.37	25.8	8 In	200 mm		
54.7	377.1	70.8	488.1	1.010	6.52	26.4	8 In	200 mm		

TENSILE TEST RATIOS

YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD
.75	1.33	.77	1.29

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