

400BBL TANKS

Certifications & MTR's

- Beam
- Flat Bar
- Round Channel

Manufactured By:



For



SOLD
ALBERTA INDUSTRIAL METALS
A DIV OF RUSSEL METALS INC
TO:
 4821 78 ST
 RED DEER AB T4P 1N5
 CANADA

NUCOR
NUCOR STEEL SEATTLE, INC.

CERTIFIED MILL TEST REPORT

Page: 3

SHIP
RUSSEL METALS INC
ALBERTA INDUSTRIAL METALS
TO:
 4821 78TH STREET
 RED DEER AB T4P 1N5
 CANADA

Ship from:
 Nucor Steel Seattle, Inc.
 2424 SW Andover
 SEATTLE, WA 98106-1100
 206-933-2222

Date: 4-Oct-2013
 B.L. Number: 457947
 Load Number: 288671

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

NBWG-08 January 1, 2012

Material Safety Data Sheets are available at www.nucorcorp.com or by contacting your nearest sales representative.																		
LOT # HEAT #	DESCRIPTION	PHYSICAL TESTS							CHEMICAL TESTS									
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C	NI	Mn	Cr	P	Mo	S	V	Si	Cb	Cu	Sn

PO# => M63020831 47,900 71,600 34.4% ***
 SE1310349401 Nucor Steel - Seattle Inc 330MPa 494MPa
 SE13103494 1/2x4" Flat 50,900 71,300 32.8%
 20" A36/44W
 CSA G40.21-13 44W/ASTM A36/A36M-12
 12

ASTM A709/A709M-13 GR 36 [250]
 ASME SA36-2010 EDITION-2011 ADDE
 NDA

ASTM A36/A36M-12, A709/709M-13 G
 R36, ASME SA36-10 Ed '11 Ad.

PO# => M63020921 54,259 74,762 27.3% ***
 SE131036501 Nucor Steel - Seattle Inc 374MPa 515MPa
 SE131036501 2x2x1/8 Angle 55,509 75,505 27.3%
 20" A36/A52950/CSA44W/50W
 A36/A52950/CSA44W/50W 383MPa 521MPa
 ASTM A709/A709M-13 GR 36 [250]
 ASME SA36-2010 EDITION-2011 ADDE
 NDA

ASTM A36/A36M-12, A709/709M-13 G
 R36, ASME SA36-10 Ed '11 Ad.



63A017487

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.
 1. Weld repairs were not made in the United States.
 2. Nucor Steel and Alpha source materials in any form have not been used in the production of this material.

QUALITY ASSURANCE: Erik Nissen

Erik Nissen

SOLD A J FORSYTH CO PRINCE GEORGE
TO: DIVISION OF RUSSEL METALS
830 CARLSLE ROAD
NEW WESTMINSTER BC V3M 5P4
CANADA

NUCOR
NUCOR STEEL SEATTLE, INC.

CERTIFIED MILL TEST REPORT

Page: 3

SHIP A J FORSYTH CO LTD*
TO: 1154 PACIFIC ST
PRINCE GEORGE BC V3M 5P4
CANADA

Ship from:
Nucor Steel Seattle, Inc.
2424 SW Andover
SEATTLE, WA 98106-1100
206-933-2222

Date: 9-Oct-2013
B.L. Number: 458299
Load Number: 289154

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

NBMC-03 January 1, 2012

LOT # HEAT #	DESCRIPTION	PHYSICAL TESTS					CHEMICAL TESTS												
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT % DEF	C	Ni	Mn	Cr	P	Mo	S	V	Si	Cb	Cu	Sn	C.I.E.
PO# => SE1310444901 SE13104449	M72032923 Nucor Steel - Seattle Inc 3x4.1# Channel 20" NUCOR MULTIGRADE NUCOR MULTIGRADE ASTM A709/A709M-13 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASME SA36-2010 EDITION-2011 ADDE NDA	52,877 365MPa 52,533 362MPa	72,520 500MPa 72,414 499MPa	23.4% 23.4%			.16 .09 REDRAT PB = *		.93 .14		.012 .020	.032 .014		.19 .001		.34			
PO# => SE1310476001 SE13104760	Nucor Steel - Seattle Inc 3x3x3/8 Angle 40" NUCOR MULTIGRADE NUCOR MULTIGRADE ASTM A709/A709M-13 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASME SA36-2010 EDITION-2011 ADDE NDA	51,307 354MPa 50,669 349MPa	71,717 494MPa 71,399 492MPa	24.2% 21.1%			.16 .09 REDRAT PB = *		.91 .11		.007 .020	.036 .016 0		.17 .00		.42			
	ASTM A36/A36M-12, A709/709M-13 G R36, ASME SA36-10 Ed '11 Ad. M72033501																		
	ASTM A36/A36M-12, A709/709M-13 G R36, ASME SA36-10 Ed '11 Ad.																		





0720009485

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.
1) Yield strength and tensile strength determined on this material.
2) Metal and manufacturing process determined on this material.
3) Mercury, Radium, or Alpha source materials in any form have not been used in the production of this material.

QUALITY ASSURANCE: Erik Nissen

[Signature]

SOLD ALBERTA INDUSTRIAL METALS
TO: A DIV OF RUSSEL METALS INC
4821 78 ST
RED DEER AB T4P 1N5
CANADA

NUCOR
NUCOR STEEL SEATTLE, INC.

CERTIFIED MILL TEST REPORT

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SHIP RUSSEL METALS INC
TO: ALBERTA INDUSTRIAL METALS
4821 78TH STREET
RED DEER AB T4P 1N5
CANADA

Ship from:
Nucor Steel Seattle, Inc.
2424 SW Andover
SEATTLE, WA 98106-1100
206-933-2222

Date: 12-Oct-2013
B.L. Number: 458529
Load Number: 289273

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

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LOT # HEAT #	DESCRIPTION	PHYSICAL TESTS										CHEMICAL TESTS							
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C NI	Mn Cr	P Mo	S V	SI Cb	Cu Sn	C.E.						

PO# => M63020830
SE1310496001 Nucor Steel - Seattle Inc 54,114 74,394 28.1%
SE13104960 1/4x2" Flat 373MPa 513MPa
20" NUCOR MULTIGRADE 54,528 74,555 28.1%
NUCOR MULTIGRADE 376MPa 514MPa
ASTM A709/A709M-13 GR 36 [250]
ASTM A529/A529M-05 GR 50
CSA G40.21-04 GR 50W
CSA G40.21-04 GR 44W
ASME SA36-2010 EDITION-2011 ADDE
NDA
ASTM A36/A36M-12, A709/709M-13 G
R36, ASME SA36-10 Ed '11 Ad.

PO# => M63020831
SE1310498701 Nucor Steel - Seattle Inc 54,163 76,664 29.7%
SE13104987 1/2x3" Flat 373MPa 529MPa
20" NUCOR MULTIGRADE 53,424 77,706 29.7%
NUCOR MULTIGRADE 368MPa 536MPa
ASTM A709/A709M-13 GR 36 [250]
ASTM A529/A529M-05 GR 50
CSA G40.21-04 GR 50W
CSA G40.21-04 GR 44W
ASME SA36-2010 EDITION-2011 ADDE
NDA
ASTM A36/A36M-12, A709/709M-13 G
R36, ASME SA36-10 Ed '11 Ad.

ASTM A36/A36M-12, A709/709M-13 G
R36, ASME SA36-10 Ed '11 Ad.



63A017576

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.
1.) Weld repair was not performed on this material.
2.) Melted and manufactured in the United States.
3.) Mercury, Radium, or Alpha source materials in any form have not been used in the production of this material.

QUALITY ASSURANCE: Erik Nissen

Erik Nissen

INCORPORATED

AUCOR STEEL SEATTLE, INC.

CERTIFIED MILL TEST REPORT

Ship from:

Nucor Steel Seattle, Inc.

2424 SW Andover

SEATTLE, WA 98106-1100

206-933-2222

Date: 13-Aug-2013

B.L. Number: 455308

Load Number: 285794

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

NBMG-03 January 1, 2012

LOT # HEAT #	DESCRIPTION	PHYSICAL TESTS					CHEMICAL TESTS									
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C NI	Mn Cr	P Mo	S V	SI Cb	Cu Sn	C.E.			
PO# => SE1310346801 SE13103468	FD-966240 Nucor Steel - Seattle Inc 1/4x2" Flat 20" NUCOR MULTIGRADE NUCOR MULTIGRADE ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-2007 EDITION-2011 ADDE NDA ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad. FD-966649 PO# => SE1310346801 SE13103468	52,074 359MPa 51,593 356MPa	71,740 495MPa 72,102 497MPa	30.5% 24.2%												
	ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad. NDA ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad.															
	20" NUCOR MULTIGRADE NUCOR MULTIGRADE ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-2007 EDITION-2011 ADDE NDA ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad.	51,600 356MPa 52,100 359MPa	71,500 493MPa 71,600 494MPa	31.3% 30.5%												
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	ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad.															
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	ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad.															
	ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad.															
	ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad.															
	ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad.															
	ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad.															
	ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad.															
	ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529M-05 GR 50 CSA G40.21-04 GR 50W CSA G40.21-04 GR 44W ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed '11 Ad.															
	ASTM A709/A709M-11 GR 36 [250] ASTM A529/A529															

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements:

- 1.) Weld repair was not performed on this material.
- 2.) Metals and Manufactured in the United States.
- 3.) Mercury, Radium, or Alpha source materials in any form have not been used in the production of this material.

QUALITY ASSURANCE:

PROJECTS LTD

ROBYN

580575

SE13103488

Shipper No _____ Heat Number _____

Nucor Steel 8/13/2013 5:13:28 PM PAGE 3/004 Fax Server

8/13/2013 5:13:28 PM PAGE 3/004 Fax Server

Customer NameCustomer PO#Snipper NoHeat Number

HIGHLAND PROJECTS LTD

ROBYN

581695

PL13204960

NUCOR
NUCOR CORPORATION
NUCOR STEEL UTAH

Mill Certification
9/4/2013

PO Box 100
7285 West 21200 North
PLYMOUTH, UT 84330
(435) 458-2300
Fax: (435) 458-2309

Sold To: VARSTEEL LTD.-NISKU/RED DEER A
602 13TH AVE
NISKU AB T9E 7P6
CANADA

Ship To: VARSTEEL LTD.-RED DEER
282-28042 HWY 11 BURNTLAKE IND
RED DEER AB T4S 2L4
CANADA
(403) 320-1953
Fax: (780) 955-1901

Customer P.O.	RD-967713	Sales Order	202364.1
Product Group	Merchant Bar Quality	Part Number	521872002404460
Grade	CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1320496001
Size	3/16x2" Strip	Heat #	PL13204960
Product	3/16X2" Str 20' A36/44W	B.L. Number	U1-447454
Description	A36/44W	Load Number	U1-261108
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 8/20/2013 Melt Date: 7/11/2013 Qty Shipped LBS: 3,956 Qty Shipped Pcs: 155

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
ASME SA36-2007 EDITION-2011 ADDENDA
ASTM A709/A709M-11 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE4020
0.15%	0.73%	0.008%	0.030%	0.19%	0.21%	0.08%	0.12%	0.021%	0.0018%	0.000%	0.32%

CE4020: G40.20 CARBON EQUIVALENT

Yield 1: 50,495psi (348MPa)	Tensile 1: 69,692psi (481MPa)	Elongation: 30% in 8"(% in 203.3mm)
Yield 2: 51,422psi (355MPa)	Tensile 2: 70,050psi (483MPa)	Elongation 30% in 8"(% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.



Cory Anthony
Division Metallurgist

NUCOR
NUCOR CORPORATION
NUCOR STEEL UTAH

Mill Certification
4/29/2013

PO Box 100
 7285 West 21200 North
 PLYMOUTH, UT 84330
 (435) 458-2300
 Fax: (435) 458-2309

Ship To: VARSTEEL LTD.-CAL
 #330 220 - 4 STREET SOUTH
 LETHBRIDGE AB T1J 4J7
 CANADA

Ship To: VARSTEEL LTD.
 10220 52ND ST. S.E.
 CALGARY AB T2C 4M2
 CANADA
 (403) 279-7030
 Fax: (403) 279-0118

Customer P.O.	CY-963826	Sales Order	196268.7
Product Group	Merchant Bar Quality	Part Number	533755002404460
Grade	CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1320217801
Size	3/8x5" Flat	Heat #	PL13202178
Product	3/8x5" Flat 20' A36/44W	B.L. Number	U1-436397
Description	A36/44W	Load Number	U1-250882
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 4/8/2013 Melt Date: 3/30/2013 Qty Shipped LBS: 4,083 Qty Shipped Pcs: 32

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
 ASME SA36-2007 EDITION-2011 ADDENDA
 ASTM A709/A709M-11 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE4020
0.14%	0.81%	0.013%	0.030%	0.21%	0.28%	0.09%	0.10%	0.016%	0.0050%	0.005%	0.32%

CE4020: G40.20 CARBON EQUIVALENT

Yield 1: 47,582psi (328MPa)	Tensile 1: 66,661psi (460MPa)	Elongation: 33% in 8"(% in 203.3mm)
Yield 2: 47,807psi (330MPa)	Tensile 2: 66,692psi (460MPa)	Elongation 33% in 8"(% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
 MTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.



Cory Anthony
 Division Metallurgist

SOLD #330, 220-4 ST SO
TO: LETSBRIDGE AB T1U 4J7
CANADA

NUCOR
NUCOR STEEL SEATTLE, INC.

CERTIFIED MILL TEST REPORT

Page: 3

VARSTEEL CO LTD (TRUCK) - CALG
SHIP 55 DUFFERIN PL SE
TO: CALGARY AB T2C 4W3
CANADA

Ship from:
Nucor Steel Seattle, Inc.
2424 SW Andover
SEATTLE, WA 98106-1100
206-933-2222

Date: 17-May-2013
B.L. Number: 451280
Load Number: 282098

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

ENWG-08 January 1, 2012

LOT # HEAT #	DESCRIPTION	PHYSICAL TESTS				CHEMICAL TESTS														
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C	Ni	Mn	Cr	P	Mo	S	V	Si	Co	Cu	Sn	C.E.	
PO# => SE1310232401 SE13102324	CY-964490 Nucor Steel - Seattle Inc 3/8x3" Flat 20' A36/44W CSA G40.21-04 44W/ASTM A36/A36M-08	51,843 357MPa 51,980 356MPa	72,720 501MPa 72,474 500MPa	31.3% 31.3%		***		.14 .11		.91 .15		.015 .030		.044 .014		.17 .006		.32		.36
	ASTM A709/A709M-11 GR 36 [250] ASME SA36-2007 EDITION-2011 ADDE NDA																			
	ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed 11 Ad.																			
PO# => SE1310232501 SE13102325	CY-964490 Nucor Steel - Seattle Inc 3/8x5" Flat 20' A36/44W CSA G40.21-04 44W/ASTM A36/A36M-08	53,438 368MPa 53,712 370MPa	74,818 516MPa 75,144 518MPa	31.3% 29.7%		***		.16 .11		.97 .12		.013 .020		.041 .013		.17 .006		.30		.38
	ASTM A709/A709M-11 GR 36 [250] ASME SA36-2007 EDITION-2011 ADDE NDA																			
	ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed 11 Ad.																			

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements:
1) Weld repair was not performed on this material.
2) Welded and Manufactured in the United States.
3) Mercury, Radium, or Alpha source materials in any form have not been used in the production of this material.

QUALITY
ASSURANCE:

[Signature]

NUCOR
NUCOR CORPORATION
NUCOR STEEL UTAH

Mill Certification
8/1/2013

PO Box 100
 7285 West 21200 North
 PLYMOUTH, UT 84330
 (435) 458-2300
 Fax: (435) 458-2309

Sold To: ALBERTA INDUSTRIAL METALS
 A DIV OF RUSSEL METALS INC
 4821 78TH ST
 RED DEER AB T4P 1N5
 CANADA

Ship To: ALBERTA INDUSTRIAL METALS
 A DIV OF RUSSEL METALS INC
 4821-78 Street
 RED DEER AB T4P 1N5
 CANADA
 (780) 439-2051
 Fax: (403) 343-1311

Customer P.O.	M 63020833	Sales Order	200190.8
Product Group	Merchant Bar Quality	Part Number	532508002404460
Grade	CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1310479901
Size	1/4x8" Flat	Heat #	PL13104799
Product	1/4x8" Flat 20' A36/44W	B.L. Number	U1-444616
Description	A36/44W	Load Number	U1-258355
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 7/18/2013 Melt Date: 7/6/2013 Qty Shipped LBS: 3,947 Qty Shipped Pcs: 29

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
 ASME SA36-2007 EDITION-2011 ADDENDA
 ASTM A709/A709M-11 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE4020
0.15%	0.77%	0.013%	0.020%	0.21%	0.31%	0.11%	0.16%	0.022%	0.0018%	0.000%	0.34%

CE4020: G40.20 CARBON EQUIVALENT

Yield 1: 52,642psi (363MPa)

Tensile 1: 73,924psi (510MPa)

Elongation: 30% in 8"(% in 203.3mm)

Yield 2: 54,197psi (374MPa)

Tensile 2: 74,530psi (514MPa)

Elongation 31% in 8"(% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
 CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.

Cory Anthony

Cory Anthony
 Division Metallurgist



NUCOR
NUCOR CORPORATION
NUCOR STEEL UTAH

Mill Certification
8/22/2013

PO Box 100
 7285 West 21200 North
 PLYMOUTH, UT 84330
 (435) 458-2300
 Fax: (435) 458-2309

Sold To: ALBERTA INDUSTRIAL METALS
 A DIV OF RUSSEL METALS INC
 4821 78TH ST
 RED DEER AB T4P 1N5
 CANADA

Ship To: ALBERTA INDUSTRIAL METALS
 A DIV OF RUSSEL METALS INC
 4821-78 Street
 RED DEER AB T4P 1N5
 CANADA
 (780) 439-2051
 Fax: (403) 343-1311

Customer P.O.	M 63020832	Sales Order	200188.9
Product Group	Merchant Bar Quality	Part Number	532508002404460
Grade	CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1310480001
Size	1/4x8" Flat	Heat #	PL13104800
Product	1/4x8" Flat 20' A36/44W	B.L. Number	U1-446477
Description	A36/44W	Load Number	U1-260558
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 7/18/2013 Melt Date: 7/6/2013 Qty Shipped LBS: 3,947 Qty Shipped Pcs: 29

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
 ASME SA36-2007 EDITION-2011 ADDENDA
 ASTM A709/A709M-11 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE4020
0.16%	0.78%	0.012%	0.020%	0.23%	0.29%	0.09%	0.14%	0.018%	0.0016%	0.000%	0.35%

CE4020: G40.20 CARBON EQUIVALENT

Yield 1: 52,479psi (362MPa)	Tensile 1: 73,130psi (504MPa)	Elongation: 32% in 8"(% in 203.3mm)
Yield 2: 53,494psi (369MPa)	Tensile 2: 72,932psi (503MPa)	Elongation 32% in 8"(% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
 CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.

Cory Anthony

Cory Anthony
 Division Metallurgist



SOLD A J FORSYTH CO PRINCE GEORGE
DIVISION OF RUSSELL METALS
TO: 830 CARLISLE ROAD
NEW WESTMINSTER BC V3M 5P4
CANADA

NUCOR
NUCOR STEEL SEATTLE, INC.

CERTIFIED MILL TEST REPORT

Page: 2

SHIP A J FORSYTH CO LTD*
1154 PACIFIC ST
TO: PRINCE GEORGE BC V3M 5P4
CANADA

Ship from:
Nucor Steel Seattle, Inc.
2424 SW Andover
SEATTLE, WA 98106-1100
206-933-2222

Date: 19-Sep-2013
B.L. Number: 457230
Load Number: 288055

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

NSMAG-08 January 1, 2012

LOT # HEAT #	DESCRIPTION	PHYSICAL TESTS					CHEMICAL TESTS												
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C	Ni	Mn	Cr	P	Mo	S	V	Si	Cb	Cu	Sn	C.E.
PO# => SE1310284801 SE13102848	M72032925 Nucor Steel - Seattle Inc 3/4x4" Flat 20' A36/44W CSA G40.21-13 44W/ASTM A36/A36M-12	52,748 364MPa 53,063	73,806 509MPa 74,312	34.4% 34.4%		***	.15 .10		.94 .19		.017 .020		.032 .015		.20 .006		.26 .38		
	ASTM A709/A709M-13 GR 36 [250] ASME SA36-2010 EDITION-2011 ADDE NDA																		
PO# => SE1310347401 SE13103474	ASTM A36/A36M-12, A709/709M-13 G R36, ASME SA36-10 Ed '11 Ad. M72032919 Nucor Steel - Seattle Inc 3/8x3" Flat 20' A36/44W CSA G40.21-13 44W/ASTM A36/A36M-12	50,087 345MPa 49,446	71,436 493MPa 70,805	31.3% 31.3%		***	.17 .09		.92 .13		.012 .020		.036 .011		.20 .001		.33 .33		
	ASTM A709/A709M-13 GR 36 [250] ASME SA36-2010 EDITION-2011 ADDE NDA ASTM A36/A36M-12, A709/709M-13 G R36, ASME SA36-10 Ed '11 Ad.																		



0720009342

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.
2) Weld repair was not performed on this material.
3) Nucor, Rodium, or Alpha source materials in any form have not been used in the production of this material.

QUALITY
ASSURANCE:

[Signature]

SOLD A J FORSYTH CO PRINCE GEORGE
TO: DIVISION OF RUSSEL METALS
 830 CARLISLE ROAD
 NEW WESTMINSTER BC V3M 5P4
 CANADA

NUCOR
NUCOR STEEL SEATTLE, INC.

CERTIFIED MILL TEST REPORT

SHIP A J FORSYTH CO LTD*
TO: 1154 PACIFIC ST
 PRINCE GEORGE BC V3M 5P4
 CANADA

Ship from:
 Nucor Steel Seattle, Inc.
 2424 SW Andover
 SEATTLE, WA 98106-1100
 206-933-2222

Date: 11-Oct-2013
 B.L. Number: 458482
 Load Number: 288889

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

NBSMC-08 January 1, 2012

LOT #	HEAT #	DESCRIPTION	PHYSICAL TESTS				CHEMICAL TESTS													
			YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C	NI	Mn	Cr	P	Mo	S	V	SI	Co	Cu	Sn	C.E.
PO# =>		M72032925																		
SE1310496001		Nucor Steel - Seattle Inc	54,114	74,394	28.1%			.16		.89		.016		.033		.21		.24		
SE13104960		1/4x2" Flat	373MPa	513MPa				.09		.11		.030		.013		.001				
		20' NUCOR MULTIGRADE	54,528	74,555	28.1%			REDRAT												
		NUCOR MULTIGRADE	376MPa	514MPa				PB = *		**										
		ASTM A709/A709M-13 GR 36 [250]																		
		ASTM A529/A529M-05 GR 50																		
		CSA G40.21-04 GR 50W																		
		CSA G40.21-04 GR 44W																		
		ASME SA36-2010 EDITION-2011 ADDE																		
		NDA																		
		ASTM A36/A36M-12, A709/709M-13 G																		
		R36, ASME SA36-10 Ed '11 Ad.																		
PO# =>		M72032790																		
SE1310496501		Nucor Steel - Seattle Inc	51,303	72,395	29.7%			.17		.91		.014		.039		.17		.25		
SE13104965		1/4x3" Flat	354MPa	499MPa				.11		.13		.030		.014		.001				
		20' NUCOR MULTIGRADE	52,244	71,934	29.7%			REDRAT												
		NUCOR MULTIGRADE	360MPa	496MPa				PB = *		**										
		ASTM A709/A709M-13 GR 36 [250]																		
		ASTM A529/A529M-05 GR 50																		
		CSA G40.21-04 GR 50W																		
		CSA G40.21-04 GR 44W																		
		ASME SA36-2010 EDITION-2011 ADDE																		
		NDA																		
		ASTM A36/A36M-12, A709/709M-13 G																		
		R36, ASME SA36-10 Ed '11 Ad.																		



0720009491



I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.
 1) Material was not performed on this material.
 2) Material was not performed on this material.
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 93) Material was not performed on this material.
 94) Material was not performed on this material.
 95) Material was not performed on this material.
 96) Material was not performed on this material.
 97) Material was not performed on this material.
 98) Material was not performed on this material.
 99) Material was not performed on this material.
 100) Material was not performed on this material.

QUALITY
 ASSURANCE:

[Signature]

Customer NameCustomer PO#Shipper NoHeat Number

HIGHLAND PROJECTS LTD

820-65

589055

PL13204960

NUCOR**NUCOR CORPORATION
NUCOR STEEL UTAH****Mill Certification**

9/4/2013

PO Box 100
7285 West 21200 North
PLYMOUTH, UT 84330
(435) 458-2300
Fax: (435) 458-2309Sold To: VARSTEEL LTD.-NISKU/RED DEER A
602 13TH AVE
NISKU AB T9E 7P6
CANADAShip To: VARSTEEL LTD.-RED DEER
282-28042 HWY 11 BURNTLAKE IND
RED DEER AB T4S 2L4
CANADA
(403) 320-1953
Fax: (780) 955-1901

Customer P.O.	RD-967713	Sales Order	202364.1
Product Group	Merchant Bar Quality	Part Number	521872002404460
Grade	CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1320496001
Size	3/16x2" Strip	Heat #	PL13204960
Product	3/16X2" Str 20' A36/44W	B.L. Number	U1-447454
Description	A36/44W	Load Number	U1-261108
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 8/20/2013 Melt Date: 7/11/2013 Qty Shipped LBS: 3,956 Qty Shipped Pcs: 155

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
ASME SA36-2007 EDITION-2011 ADDENDA
ASTM A709/A709M-11 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE4020
0.15%	0.73%	0.008%	0.030%	0.19%	0.21%	0.08%	0.12%	0.021%	0.0018%	0.000%	0.32%

CE4020: G40.20 CARBON EQUIVALENT

Yield 1: 50,495psi (348MPa)	Tensile 1: 69,692psi (481MPa)	Elongation: 30% in 8"(% in 203.3mm)
2: 51,422psi (355MPa)	Tensile 2: 70,050psi (483MPa)	Elongation 30% in 8"(% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.

Cory Anthony
Division Metallurgist

Page 1 of 9

Ship To: ALBERTA INDUSTRIAL METALS
 A DIV OF RUSSEL METALS INC
 4821 78TH ST
 RED DEER AB T4P 1N5
 CANADA

Ship To: ALBERTA INDUSTRIAL METALS
 A DIV OF RUSSEL METALS INC
 4821-78 Street
 RED DEER AB T4P 1N5
 CANADA
 (780) 439-2051
 Fax: (403) 343-1311

Customer P.O.	M 63021800	Sales Order	206266.2
Product Group	Merchant Bar Quality	Part Number	521872002404460
Grade	CSA G40.21-13 44W/ASTM A36/A36M-12	Lot #	PL1320729151
Size	3/16x2" Strip	Heat #	PL13207291
Product	3/16X2" Str 20' A36/44W	B.L. Number	U1-453279
Description	A36/44W	Load Number	U1-266919
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 10/27/2013 Melt Date: 10/19/2013 Qty Shipped LBS: 3,956 Qty Shipped Pcs: 155

ASTM A36/A36M-12, A709/709M-13 GR36, ASME SA36-10 Ed '11 Ad.
 ASME SA36-2010 EDITION-2011 ADDENDA
 ASTM A709/A709M-13 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE4020
0.15%	0.72%	0.011%	0.040%	0.23%	0.25%	0.09%	0.15%	0.038%	0.0003%	0.001%	0.33%

CE4020: C. E. CSA G4020, AASHTO M270

Yield 1: 53,166psi (367MPa)

Tensile 1: 73,202psi (505MPa)

Elongation: 27% in 8"(% in 203.3mm)

Yield 2: 53,184psi (367MPa)

Tensile 2: 72,931psi (503MPa)

Elongation 27% in 8"(% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
 CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.

Cory Anthony

Cory Anthony
 Division Metallurgist



63A017727

NUCOR**NUCOR CORPORATION
NUCOR STEEL UTAH****Mill Certification
11/1/2013**PO Box 100
7285 West 21200 North
PLYMOUTH, UT 84330
(435) 458-2300
Fax: (435) 458-2309To: ALBERTA INDUSTRIAL METALS
A DIV OF RUSSEL METALS INC
4821 78TH ST
RED DEER AB T4P 1N5
CANADAShip To: ALBERTA INDUSTRIAL METALS
A DIV OF RUSSEL METALS INC
4821-78 Street
RED DEER AB T4P 1N5
CANADA
(780) 439-2051
Fax: (403) 343-1311

Customer P.O.	M 63021614	Sales Order	205094.2
Product Group	Merchant Bar Quality	Part Number	300006252403450
Grade	ASTM A529/A529M-05 gr50/CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1310727951
Size	5/8" (.6250) Round	Heat #	PL13107279
Product	5/8" (.6250) Round 20' A36/44W/529gr50/50W	B.L. Number	U1-452716
Description	A36/44W/529gr50/50W	Load Number	U1-266070
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 10/19/2013 Melt Date: 10/18/2013 Qty Shipped LBS: 4,005 Qty Shipped Pcs: 192

ASTM A36/A36M-12, A709/709M-13 GR36, ASME SA36-10 Ed '11 Ad.
ASME SA36-2010 EDITION-2011 ADDENDA
ASTM A529/A529M-05 GR 50
ASTM A709/A709M-13 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.18%	0.75%	0.009%	0.022%	0.25%	0.26%	0.10%	0.11%	0.028%	0.0002%	0.000%

Yield 1: 54,688psi (377MPa)	Tensile 1: 75,964psi (524MPa)	Elongation: 27% in 8"(% in 203.3mm)
2: 53,380psi (368MPa)	Tensile 2: 76,458psi (527MPa)	Elongation 27% in 8"(% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.

Cory Anthony
Division Metallurgist

63A017628

Page 6 of 8

SOLD VARSTEEL CO LTD - NISKU
#330, 220-4 ST SO
TO: LETHBRIDGE AB T1J 4J7
CANADA

NUCOR
NUCOR STEEL SEATTLE, INC.

CERTIFIED MILL TEST REPORT

Page: 3

VARSTEEL CO LTD
602 13TH AVE
NISKU AB T1J 4J7
CANADA

Ship from:
Nucor Steel Seattle, Inc.
2424 SW Andover
SEATTLE, WA 98106-1100
206-933-2222

Date: 23-May-2013
B.L. Number: 451547
Load Number: 282309

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

NSWG-08 January 1, 2012

LOT # HEAT #	DESCRIPTION	PHYSICAL TESTS				CHEMICAL TESTS									
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C N	Mn Cr	P Mo	S V	Si Cb	Cu Sn	C.E.		
PO# => SE1310235501 SE13102355	NI-964766 Nucor Steel - Seattle Inc 5/8" (.6250) Round 20' A36/44W CSA G40.21-04 44W/ASTM A36/A36M-08 ASTM A709/A709M-11 GR 36 [250] ASME SA36-2007 EDITION-2011 ADDE NDA ASTM A36/A36M-08, A709/709M-11 G R36, ASME SA36-10 Ed'11 Ad.	52,178 360MPa 52,340 361MPa	74,229 512MPa 74,294 512MPa	27.3% 28.1%			.15 .12	.87 .10	.012 .030	.038 .005	.18 .006	.38 	.36		

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies these requirements:
1.) Weld repair was not performed on the material
2.) Melting and Manufactured in the United States.
3.) Mercury, Radium, or Alpha source materials in any form have not been used in the production of this material.

QUALITY
ASSURANCE:

Customer PO# 582449
Shipper No SE13102355
5/23/2013 4:03:36 PM PAGE 3/003
Fax Server

SOLD RUSSEL - CALGARY
TO: 5724 40TH ST SE
CALGARY AB T2C 2A1
CANADA

NUCOR
NUCOR STEEL SEATTLE, INC.

CERTIFIED MILL TEST REPORT

Page: 4



64A027769

SHIP RUSSEL METALS INC
TO: 5724 40TH ST SE
CALGARY AB T2C 2A1
CANADA

Ship from:
Nucor Steel Seattle, Inc.
2424 SW Andover
SEATTLE, WA 98106-1100
206-933-2222

FEB 08 2012

Date: 2-Feb-2012
B.L. Number: 428139
Load Number: 262109

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

ENR-08 January 1, 2012

Material Safety Data Sheets are available at www.inducou.com or by contacting your nearest sales representative.																		
LOT # HEAT #	DESCRIPTION	PHYSICAL TESTS							CHEMICAL TESTS									
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT% DEF	C	NI	Mn	Cr	P	Mo	S	V	Si	Co	Cu	Sn

PO# => M64035334
SE1210010502 Nucor Steel - Seattle Inc 49,310 73,278 32.8% ***
SE12100105 1-1/2" (1.5000) Round 340MPa 505MPa .17 .75 .019 .047 .19 .42 .36
20' A36/44W 49,027 72,707 28.1% .12 .12 .024 .006 .006

CSA G40.21-04 G44W/ASTM A36A36M 338MPa 501MPa

-08
ASTM A709/A709M-11 GR 36 [250]
CSA G40.21-04 GR 44W
ASTM A36/44W
ASTM A36/A36M-08, A709/A709M-11
GR36, ASME SA36-07 Ed 11 Ad

NDA

PO# =>

SE1210012401 Nucor Steel - Seattle Inc 50,836 74,594 29.7% ***
SE12100124 1/2x1-1/2" Flat 351MPa 514MPa .18 .69 .013 .041 .23 .36 .35
20' A36/44W 50,969 74,871 25.0% .12 .08 .025 .006 .005

CSA G40.21-04 44W/ASTM A36/A36M-08 351MPa 516MPa

ASTM A709/A709M-11 GR 36 [250]
ASTM A36/44W
ASTM A36/A36M-08, A709/A709M-11
GR36, ASME SA36-07 Ed 11 Ad

NDA

ASTM A36/A36M-08, A709/A709M-11
GR36, ASME SA36-07 Ed 11 Ad

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.
1. Weld repair was not performed on this material.
2. Welded in the United States.
3. Welded in the production of this material.
4. Manufactured in any form
5. Manufactured in the production of this material.

QUALITY ASSURANCE: Erik Nissen



New Zealand Steel Limited
131 Mission Bush Road, Glenbrook, South Auckland
Postal: Private Bag 92121, Auckland 1142, New Zealand
Telephones: (09) 375 8999 / 375 8111 Auckland
(09) 235 8089 Waikato
Fax: (09) 375 8959

TEST CERTIFICATE

Ref: 14817159399

CUSTOMER	A.J. Forsyth	SPECIFICATION	ASTMA36	CERTIFICATE No	TC266182																				
CUSTOMER O/N	106221	USER REF	79006356	PRODUCT	HOT ROLLED COIL																				
MILL O/N	936451	DIMENSIONS	0.236" x 60" x Coil	DATE	31 December 2012																				
PACK NUMBER	HEAT No	CHEMICAL COMPOSITION PERCENT																							
HH-D80297-00	907201	C	Si	Mn	P	S	Cu	NI	Cr	Mo	V	Nb	TI	Al	B	N2	CE(A)	MECHANICAL TESTS (TEST SPECIFICATION - ASTM A370)							
HH-D80298-00	909382	x100																	BEND	YIELD	T.S.	%ELONG	HARDNESS	()	LENGTH
HH-D80299-00	906876	18	1	58	11	14	12	17	25	TR	7	TR	2	35	TR	50	27	49300	67400	25		486			
		18	1	62	17	20	12	18	20	1	8	1	1	43	TR	50	28	52400	69900	27		486			
		17	1	61	10	13	12	17	23	TR	8	TR	1	39	TR	50	27	49500	67900	23		653			



0790002993

CHEM COMP % SI (TR) < 0.01%	YIELD (A)=0.2% PROOF STRESS (B)=LOWER YIELD STRESS	GAUGE LENGTH (G.L.) (A)=200mm (C)=80mm (B)=50mm (D)=5.65√So	PLASTIC STRAIN RATIO (r) (A)=0 (C)=145 (B)=90 (D)=(r+90+245)/4	IMPACT TEST (A)=10mm x 10mm (B)=7.5mm x 10mm (C)=5mm x 5mm (D)=2.5mm x 10mm (E)=5mm x 10mm	CARBON EQUIVALENT VALUE (CE) (A)=C+Mn/6 (B)=C+Mn/6+(Cr+V+Mo)/5+(Cu+Ni)/15 (C)=C+Mn/6+Si/24 (D)=
--------------------------------	--	---	--	---	---

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND INSPECTED
WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE SPECIFICATION

APPROVED

Andrew Mackay
SENIOR METALLURGIST

218 HOT ROLL NO. 0000

SOLD VARSTEEL CO LTD (TRUCK) - CALG
TO: LET-BRIDGE AB T1J 4L7
CANADA

NUCOR
NUCOR STEEL SEATTLE, INC.

CERTIFIED MILL TEST REPORT

Page: 1

VARSTEEL CO LTD (TRUCK)
SHIP 55 DUFFERIN PL SE
TO: CALGARY AB T2C 4W3
CANADA

Ship from:
Nucor Steel Seattle, Inc.
2424 SW Anderson
SEATTLE, WA 98106-1100
206-833-2222

Date: 15-Apr-2013
B.L. Number: 449855
Load Number: 280888

Material Safety Data Sheets are available at www.nucorsteel.com or by contacting your inside sales representative.

NUCOR JANUARY 1, 2012

LOT # HEAT #	DESCRIPTION	PHYSICAL TESTS					CHEMICAL TESTS											
		YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 2"	BEND	WT% DEF	C	N	Mn	P	Mo	S	V	Si	Ca	Cu	Sn	C.E.
PO# 00 PL122078392 PL12207839	CY-003416 Nucor Steel - Utah 60" (6250) Round 20' ASB/44W CSA G40.21-04 44W/ASTM A36/A36M-08	50,759 390MPa 60,622	71,413 482MPa 70,572	28.0% 28.0%		***	.16 .11	.77 .11	.013 .034		.037 .001	.20 .001	.21 .34					
PO# 00 SE181002901 SE18100290	CV-003416 Nucor Steel - Seattle Inc 1/2" (5000) Round 20' ASB/44W CSA G40.21-04 44W/ASTM A36/A36M-08	52,922 365MPa 53,955	74,764 515MPa 73,741	25.0% 28.1%		***	.14 .10	.91 .13	.017 .020		.045 .007	.22 .009	.35 .35					
	ASTM A709/A709M-11 GR 50 [250] ASME SA335-2007 EDITION-2011 ADDE NDA ASTM A36/A36M-06, A709/A709M-11 G R36, ASME SA335-10 Ed 11 Ad.																	

1) Verify quality and the material described therein has been manufactured in accordance with the specifications and standards listed above and meet all other listed requirements.
2) Welds shall be performed in the United States.
3) Material and manufactured in the United States.
4) Material, Product, or Alpha source materials in any form have not been used in the production of this material.

QUALITY ASSURANCE: Erik Messner

Bill To: Ship To: 2
 A.J. FORSYTH DIV OF RUSSEL MTL A.J. FORSYTH & COMPANY LTD.
 ACCTS PAYABLE 1154 PACIFIC STREET
 830 CARLISLE RD PRINCE GEORGE BC
 DELTA V2N-2K8 CA
 V3M 5P4

Order Date: 12/21/2011
 PO No: 72027879 - F
 Mill Order No: 3977196
 Load No: 1428590
 Manifest No: 2122025

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
 W 8 X 18# / W200 X 26.6
 GRADE
 992/572-50
 LENGTH
 40 FT / 12.192 M

PRODUCT
 WF BEAMS

HEAT NO: 22627640
 C Mn P S Si Cu Ni Cr Mo Sn V Al Nb CE
 .08 .91 .014 .039 .23 .39 .10 .14 .033 .009 .002 .003 .018 .3

Yield Strength		Tensile Strength		Specimen Area		Elongation		Bend Test		ROA
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia.	Result	%
57.0	393.0	74.3	512.3	0.339	2.19	23.5	8 In	200 mm		
56.3	388.2	73.8	508.8	0.344	2.22	24.7	8 In	200 mm		

TENSILE TEST RATIOS
 YLD/TENS TENS/YLD YLD/TENS TENS/YLD
 .77 1.3 .76 1.31



0720006466

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: Feb. 28, 2012
 Tom L. Harrington: Quality Assurance Manager

Signed: _____
 Notary Public (if applicable)

Date: _____
 Page: 1 of 1

Bill To:
A J FORSYTH DIV OF RUSSEL MTL
ACCTS PAYABLE
830 CARLISTLE RD
DELTA
V3M SP4

Ship To: 2
A.J. FORSYTH & COMPANY LTD.
1154 PACIFIC STREET
PRINCE GEORGE
V2N-2K8

Order Date: 12/21/2011
PO No: 72027879 - F
Mill Order No: 3977197
Load No: 1435440
Manifest No: 2127934

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

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

SIZE
W 8 X 18# / W200 X 26.6

GRADE
992/572-50

LENGTH
60 FT / 18.288 M

PRODUCT
WF BEAMS

HEAT NO: 22636750

C Mn P S Si Cu Ni Cr Mo Sn V Al Nb CE
.09 .87 .020 .025 .24 .41 .08 .15 .027 .008 .002 .004 .019 .3

Yield Strength

KSI	MPa
58.4	402.7
59.8	412.3

Tensile Strength

KSI	MPa
75.9	523.3
78.5	541.2

TENSILE TEST RATIOS
YLD/TENS YLD/TENS

.76 .77

CHEMICAL ANALYSIS

PHYSICAL PROPERTIES

Specimen Area	Specimen Area	Elongation	Gage Length
Sq In	Sq cm	%	
0.343	2.21	24.7	8 in 200 mm
0.332	2.14	24.1	8 in 200 mm

Bend Test
Dia. Result
ROA %

0720006605



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: Mar. 26, 2012
Tom L. Harrington: Quality Assurance Manager

Signed: _____
Notary Public (if applicable)

Date: _____
Page: 1 of 1

Bill To: H.J. FORSYTH DIV OF RUSSEL MTL
 ACCTS PAYABLE
 830 CARLISLE RD
 DELTA
 V3M SP4

Ship To: 1
 H.J. FORSYTH & COMPANY LTD.
 830 CARLISLE ROAD
 ANNACIS BUSINESS PARK
 NEW WESTMINSTER
 V3M-SP4

Order Date: PO No:
 Mill Order No:
 SAP Shpmt No:

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

SPECIFICATIONS
 ASTM A6-09, A992-06a, A572-07
 SIZE
 W 8 X 18 IN / W200 X 26.6
 GRADE
 992/572-50
 LENGTH
 60 FT / 18.288 M
 PRODUCT
 WF BEAMS

HEAT NO: 22636760
 C Mn P S Si Cu Ni Cr Mo Sn V Al Nb Ce
 .07 .92 .018 .007 .28 .39 .09 .15 .029 .010 .002 .006 .021 .29

Yield Strength		Tensile Strength		Specimen Area		Elongation		Bend Test		ROF	
KSI	MPa	KSI	MPa	Sq In	Sq cm	%	Gage Length	Dia.	Result	%	
62.7	432.3	80.5	555.0	0.330	2.13	25.3	8 in 200 mm				
61.0	420.6	77.8	536.4	0.333	2.15	24.8	8 in 200 mm				

TENSILE TEST RATIOS
 YLD/TENS
 .78

MATERIAL MEETS REQUIREMENTS OF CSA G40.21-50W;

Remarks



0720006808

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 -- "M" prefix added to RT# identifies material produced before 4/1/2012 conversion to SAP.

"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: Apr. 27, 2012 Signed: _____ Date: _____
 Tom L. Harrington: Quality Assurance Manager Notary Public (if applicable) Page: 1 of 1

Bill To: A J FORSYTH DIV OF RUSSEL MTL A J FORSYTH & COMPANY LTD.
 ACCTS PAYABLE 1154 PACIFIC STREET
 830 CARLISLE RD PRINCE GEORGE
 DELTA BC V2N-2K8
 V3M SP4 CA

Ship To: 2
 Order Date: 12/21/2011
 PO No: 72027879 - F
 Mill Order No: 3977196
 Load No: 1428590
 Manifest No: 2122025

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
 W 8 X 18# / W200 X 26.6

GRADE
 992/572-50

LENGTH
 40 FT / 12.192 M

HEAT NO: 22627640

CHEMICAL ANALYSIS									
C	MT	P	S	Si	Cu	Ni	Cr	Mo	Sn
.08	.91	.014	.039	.23	.39	.10	.14	.033	.009
V	Al	Mn	CE						
.3									

PHYSICAL PROPERTIES

Yield Strength		Tensile Strength		Specimen Area		Elongation		Bend Test		ROA
KSI	Mpa	KSI	Mpa	Sq In	Sq cm	%	Gage Length	Dia.	Result	%
57.0	393.0	74.3	512.3	0.339	2.19	23.5	8 In	200 mm		
56.3	388.2	73.8	508.8	0.344	2.22	24.7	8 In	200 mm		
TENSILE TEST RATIOS										
YLD/TENS	TENS/YLD	YLD/TENS	TENS/YLD							
.77	1.3	.76	1.31							

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: Feb. 28, 2012 Signed: Notary Public (if applicable) Date:



Contract No.	
Customer	WIRTH STEEL
L/C No.	
P/O No.	46201201B011
Commodity	H-BEAM
Specification	ASTM A36/A572 G50/A992/CSA350W

INSPECTION CERTIFICATE

MILL TEST CERTIFICATE

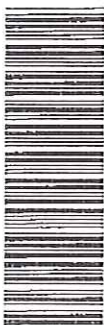
HYUNDAI STEEL	
Head Office	1, Songhyeon-dong, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20120204251 - 2
Class, Cert. No.	
Date of Issue	2012-02-29

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)										Tensile Test			Bend Test	Impact Test (V-notch)			Remarks		
			C	Si	Mn	P	S	Cu Ni	Mo Cr	Al V	Nb	Sn	CE(1)	Tensile Strength N/mm ²	Yield point		Elongation(2) %	AVG	1		2	3
8X5-1/4X18	D 105779	84	16	16	60	33	17	27	1	13	3	16	13	540.3	409.9	24.5	()					
60.00 FT		41,160						9	13					536.4	406.0	25.0						
8X6-1/2X24	D 105834	96	18	14	60	33	17	31	9	13	3	16	12	529.6	379.5	26.0						
40.00 FT		41,760						9	13					524.7	375.6	26.5						
8X6-1/2X24	D 105835	24	19	14	60	31	22	32	9	13	4	17	19	536.4	384.4	25.5						
40.00 FT		10,440						9	10					538.4	390.3	25.0						
8X6-1/2X24	D 105879	5	20	14	59	33	18	26	1	10	3	15	14	535.5	408.9	26.0						
50.00 FT		2,720						8						529.6	407.0	26.5						
8X6-1/2X24	D 105833	72	21	14	62	29	22	28	9		3	17	12	547.2	407.0	24.5						
50.00 FT		39,168						8						541.3	404.0	25.0						
8X6-1/2X24	D 105834	16	16	14	60	33	17	31	1	13	3	16	12	529.6	379.5	26.0						
50.00 FT		8,704						9						524.7	375.6	26.5						
8X6-1/2X24	D 105833	52	21	14	62	29	22	28	1	9	3	17	12	547.2	407.0	24.5						
50.00 FT		33,956						9						541.3	404.0	25.0						
8X6-1/2X24	D 105834	24	16	14	60	33	17	31	1	13	3	16	12	529.6	379.5	26.0						
60.00 FT		15,672						9	13					524.7	375.6	26.5						
8X6-1/2X28	D 105832	32	17	16	61	33	19	28	1	13	3	17	20	537.6	380.5	25.5						
40.00 FT		16,256						8	15					530.5	375.6	26.0						
SUB TOTAL		405																				
		209,836																				



(Note) (1) C=Cr, Mn=Cr, Ni=Cr, V=V, Mo=Mo, S=Ni, S=Cu, (1/5)

(2) Gauge length: 200 mm



WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER

General Manager of Q.A. Team

2005581

A41210X2971

0720006761



CERTIFIED MATERIAL TEST REPORT

Page 1/1

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

CUSTOMER SHIP TO
VARSTEEL LTD
602 13TH AVE
NISKU, AB T9E 7P6
Canada

CUSTOMER BILL TO
VARSTEEL LTD
220 4TH ST S
LETHBRIDGE, AB T1J 4J7
Canada

GRADE
A36/A57250

SHAPE / SIZE
STD BEAM SHAPE, J 6 X 12.5 / 130 X 18.6

LENGTH
42'00"

WEIGHT
55.125 LB

HEAT / BATCH
5905050703

SPECIFICATION / DATE OF REVISION
ASTM A36/A36M-08
ASTM A572/A572M-07
ASTM A6/A6M-11

CUSTOMER PURCHASE ORDER NUMBER
RD-955724

BILL OF LADING
1327-0000026142

DATE
10/14/2012

Heat Number

59050507

Shipper No

572934

Customer PO#

820-4

Customer Name

HIGHLAND PROJECTS LTD

CHEMICAL COMPOSITION

C %	Mn %	P %	S %	Si %	Cu %	Ni %	Cr %	Mo %	Sn %	V %	Nb %	Al %
0.08	0.87	0.012	0.021	0.22	0.29	0.10	0.13	0.028	0.009	0.002	0.017	0.003

CHEMICAL COMPOSITION
CEMPA6
0.3

MECHANICAL PROPERTIES

YS	UTS	YS	UTS	G/L	G/L
KSI	KSI	MPa	MPa	Inch	mm
58.0	73.2	400	505	8.000	200.0
58.2	73.6	401	508	8.000	200.0

MECHANICAL PROPERTIES

Elong. %	Y/T ratio %
22.20	0.792
22.50	0.791

COMMENTS / NOTES

The above figures are certified chemical and physical test records as contained in the permanent records of company. This material, including the billets, was melted and manufactured in the USA. We certify that these data are correct and in compliance with specified requirements. CMTR complies with EN 10204 3.1.

BRASKAR VALAMANCHILI
QUALITY DIRECTOR

TOM HARRINGTON
QUALITY ASSURANCE MGR.

NUCOR**NUCOR CORPORATION**
NUCOR STEEL UTAH**Mill Certification**

8/1/2013

PO Box 100
7285 West 21200 North
PLYMOUTH, UT 84330
(435) 458-2300
Fax: (435) 458-2300Sold To: GOLDEN RECYCLING & SALVAGE INC
1100 6TH AVE N
PO BOX 1154
BILLINGS, MT 59103Ship To: SCHNITZER BILLINGS
1100 6TH AVE, NORTH
P.O. BOX 1154
BILLINGS, MT 59103-0000
(406) 252-8080
Fax: (406) 252-0843

Customer P.O.	22049	Sales Order	201056.2
Product Group	Merchant Bar Quality	Part Number	202001252404460
Grade	CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1310427401
Size	2x2x1/8 Angle	Heat #	PL13104274
Product	2x2x1/8 Angle 20' A36/44W	B.L. Number	U1-444607
Description	A36/44W	Load Number	UT-258577
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 6/21/2013 Melt Date: 6/15/2013 Qty Shipped LBS: 4,150 Qty Shipped Pcs: 126

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
ASME SA36-2007 EDITION-2011 ADDENDA
ASTM A709/A709M-11 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cl	CL0020
0.16%	0.71%	0.015%	0.040%	0.21%	0.27%	0.16%	0.19%	0.042%	0.0010%	0.001%	0.35%

CE4020: G40.20 CARBON EQUIVALENT

Yield 1: 56,359psi (389MPa)

Tensile 1: 77,711psi (536MPa)

Elongation: 30% in 8" (% in 203.3mm)

Yield 2: 56,380psi (389MPa)

Tensile 2: 77,312psi (533MPa)

Elongation 31% in 8" (% in 203.3mm)

Certification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.

Cory Anthony
Division Metallurgist

Page 4 of 11

NUCOR
NUCOR CORPORATION
NUCOR STEEL UTAH

Mill Certification
8/1/2013

PO Box 100
 7285 West 21200 North
 PLYMOUTH, UT 84330
 (435) 458-2300
 Fax: (435) 458-2309

Sold To: GOLDEN RECYCLING & SALVAGE INC
 1100 6TH AVE N
 PO BOX 1154
 BILLINGS, MT 59103

Ship To: SCHNITZER BILLINGS
 1100 6TH AVE. NORTH
 P.O. BOX 1154
 BILLINGS, MT 59103-0000
 (406) 252-8080
 Fax: (406) 252-0843

Customer P.O.	22049	Sales Order	201056.2
Product Group	Merchant Bar Quality	Part Number	202001252404460
Grade	CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1310427401
Size	2x2x1/8 Angle	Heat #	PL13104274
Product	2x2x1/8 Angle-20" A36/44W	B.L. Number	U1-444607
Description	A36/44W	Load Number	U1-258577
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 6/21/2013 Melt Date: 6/15/2013 Qty Shipped LBS: 4,158 Qty Shipped Pcs: 126

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
 ASME SA36-2007 EDITION-2011 ADDENDA
 ASTM A709/A709M-11 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CL4020
0.16%	0.71%	0.015%	0.040%	0.21%	0.27%	0.16%	0.19%	0.042%	0.0010%	0.001%	0.35%

CE4020: G40.20 CARBON EQUIVALENT

Yield 1: 56,359psi (389MPa)	Tensile 1: 77,711psi (536MPa)	Elongation: 30% in 8" (% in 203.3mm)
Yield 2: 56,380psi (389MPa)	Tensile 2: 77,312psi (533MPa)	Elongation 31% in 8" (% in 203.3mm)

Certification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
 CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

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Cory Anthony
 Division Metallurgist

NUCOR**NUCOR CORPORATION
NUCOR STEEL UTAH****Mill Certification**
1/28/2013PO Box 100
7285 West 21200 North
PLYMOUTH, UT 84330
(435) 458-2300
Fax: (435) 458-2309Sold To: **PACIFIC STEEL - BILLINGS**
145 SUGAR AVE.
BILLINGS, MT 59107-0000Ship To: **PACIFIC STEEL & RECYCLING**
145 SUGAR AVE.
A/P 1124701
BILLINGS, MT 59107
(406) 259-1114
Fax: (406) 259-1128

Customer P.O.	2021444	Sales Order	189138.51
Product Group	Merchant Bar Quality	Part Number	550006252404460
Grade	CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1310011101
Size	5/8" (.6250) Square	Heat #	PL13100111
Product	5/8" (.6250) Square 20' A36/44W	B.L. Number	U1-428419
Description	A36/44W	Load Number	U1-243350
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 1/15/2013 Melt Date: 1/6/2013 Qty Shipped LBS: 3,987 Qty Shipped Pcs: 150

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
ASME SA36-2007 EDITION-2011 ADDENDA
ASTM A709/A709M-11 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE4020
0.17%	0.71%	0.012%	0.040%	0.22%	0.23%	0.08%	0.11%	0.018%	0.0010%	0.001%	0.33%

CE4020: G40.20 CARBON EQUIVALENT

Yield 1: 50,207psi (346MPa)

Tensile 1: 73,068psi (504MPa)

Elongation: 26% In 8"(% In 203.3mm)

Yield 2: 49,658psi (342MPa)

Tensile 2: 72,759psi (502MPa)

Elongation 27% In 8"(% In 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.


Cory Anthony

Division Metallurgist

Page 9 of 10

NUCOR**NUCOR CORPORATION**
NUCOR STEEL UTAH**Mill Certification**
7/24/2013PO Box 100
7285 West 21200 North
PLYMOUTH, UT 84330
(435) 458-2300
Fax: (435) 458-2309Sold To: GOLDEN RECYCLING & SALVAGE INC
1100 6TH AVE N
PO BOX 1154
BILLINGS, MT 59103Ship To: SCHNITZER BILLINGS
1100 6TH AVE. NORTH
P.O. BOX 1154
BILLINGS, MT 59103-0000
(406) 252-8080
Fax: (406) 252-0843

Customer P.O.	22016	Sales Order	200078.6
Product Group	Merchant Bar Quality	Part Number	250300414803450
Grade	ASTM A529/A529M-05 gr50/CSA G40.21-04 44W/50W /A36/A36M-08	Lot #	PL1320471601
Size	3x4.1# Channel	Heat #	PL13204716
Product	3x4.1# Channel 40' A36/44W/529gr50	B.L. Number	U1-443902
Description	A36/44W/529gr50/50W	Load Number	U1-257378
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 7/13/2013 Melt Date: 7/1/2013 Qty Shipped LBS: 7,872 Qty Shipped Pcs: 48

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
ASME SA36-2007 EDITION-2011 ADDENDA
CSA G40.21-04 GR 44W
CSA G40.21-04 GR 50W
ASTM A529/A529M-05 GR 50

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Ch	CBV
0.19%	0.78%	0.015%	0.029%	0.21%	0.25%	0.09%	0.19%	0.027%	0.0014%	0.001%	0.0003%
CEA529	CE4020										
0.42%	0.39%										

CBV: CB+V

C 129: A529 CARBON EQUIVALENT
C 30: G40.20 CARBON EQUIVALENT

Yield 1: 57,518psi (397MPa)	Tensile 1: 78,989psi (545MPa)	Elongation: 25% in 8" (% in 203.3mm)
Yield 2: 58,246psi (388MPa)	Tensile 2: 79,840psi (550MPa)	Elongation 24% in 8" (% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.

Cory Anthony
Division Metallurgist

0 January 1, 2012

Page 4 of 10

CISS, S.A. DE C. V. SIDEREX MEXICANA

7/2/77

ROLLING MILL, 'BEST, REGULAR'

GENERALS:

DATE: 6/22/73

CUSTOMER: BROWN-SHAWLES STEEL

ORDER: 000723 CONTRACT NO: 092 REVISION: 000497- 1

PRODUCT: SIO T-ITEM 6"X12.5 lb/ft

SPECIFICATION PRODUCT A36/ A36-CB SHIPBUILDING

WEIGHT (LBS/FT) : 10.600 LENGTH (FTS) 12.20

MADE IN MEXICO

CHEMICAL ANALYSIS:

ITEM	% P	% S	% C	% CU	% MO	% SI	% NI	% CR	% V	% MN	C.B.
301459	.0170	.0400	.1500	.3700	.0150	.2100	.1200	.1300		.6800	
301460	.0180	.0390	.1500	.3800	.0160	.2400	.1200	.1200		.6500	

MECHANICAL PROPERTIES AND TENSILE:

ITEM	YIELD TENSILE (LB/IN ²)	TENSILE STRENGTH (LB/IN ²)	(%) ELONGATION (2")	BEND TEST
301459	49,286	70,660	27	O.K.
301460	49,453	70,855	27	O.K.

UNITES BY TEMP

ITEM

301459 'IN' 1070 'IN' 1071
301460 'IN' 1071

MXJD

QUALITY ASSURANCE (SC-013)



GERDAU

US M.L. MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN TX 76065
USA

CERTIFIED MATERIAL TEST REPORT

Page 1/1

CUSTOMER SHIP TO BROWN STRAUSS STEEL DIVISION O BROWN STRAUSS STEEL DIVISION O TRACK 730 ZONE 15 DENVER CO 80239 USA		CUSTOMER BILL TO 2495 URAVAN ST AURORA CO 80011 3539 USA		GRADE 992572 50	SHAPE / SIZE Wide Flange Beam / 8 X 18# / 200 X 26 6
SALES ORDER 460537/000360		CUSTOMER MATERIAL N		LENGTH 60 00	WEIGHT 51 840 LB
DATE 08/28/2013		SPECIFICATION / DATE OF REVISION A572/A572M-07 A592/A592M 11 ASTM A6/A6M 11		HEAT / BATCH 58014948/02	
BILL OF LADING 1327-0000070667					

CUSTOMER PURCHASE ORDER NUMBER
91558

CHEMICAL COMPOSITION									
C	/	P	/	S	/	Q	/	N	/
0.09	0.96	0.014	0.015	0.23	0.25	0.12	0.22	0.035	0.007
								0.003	0.013
									0.003

CHEMICAL COMPOSITION									
CE	/	AS							
0.3									

MECHANICAL PROPERTIES									
YS	UTS	YS	UTS	G/L	G/L	mm	mm	mm	mm
KSI	KSI	MPa	MPa	in 3	in 3	200 0	200 0	200 0	200 0
53.4	71.0	379	497	8.000	8.000				
55.0	72.1	368	489						

MECHANICAL PROPERTIES									
E _l	VT	E _l	VT	G/L	G/L	mm	mm	mm	mm
25 10	0.763	25 10	0.763	in 3	in 3	200 0	200 0	200 0	200 0
24 80	0.752								

COMMENTS / NOTES

The above figures are certified chemical and physical test records as contained in the permanent records of company. This material including the billets was melted and manufactured in the USA. CMTR complies with EN 10204 3.1

Shackley
BRUSKAR VALMANCINI
QUALITY DIRECTOR

Davidson
N A V R
TOM LIDBINGTON
QUALITY ASSURANCE MGR.

NUCOR STEEL BERKELEY
P O Box 2259
Mc Pleasant S C 29464
Phone (843) 336-6000

CERTIFIED MILL TEST REPORT

100% MELTED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and
rolled to a full yield and fine grain practice
Mercury has not been used in the direct manufacturing of this material

Sold To: BROWN STROUSS STEEL CO
2495 URAVAN STREET
ACCOUNTS PAYABLE STEEL
RUDORA CO 80011

Shid To: BROWN STROUSS STEEL
802 KIMBLEBERGER RD
PO BOX
KANSAS CITY KS 66115

Customer # 458 - 18
B o I # 1036219
MOS R

SPECIFICATIONS Tested in accordance with ASTM Specification A6 13/A6M 12 and A370 Quality Manual Rev H27

ASTM SA 36 07a
ASTM A992 11 A36 12/A529-05 50/A572 5012a/A70913 50s
CSA CSA 44W/C40 21 50W/C40 2130W/C40 21350w

Description	Test/Heat #	Heat Grade(s)	Yield/ Tensile Ratio	Yield (MPa)	Tensile (MPa)	Elong %	Ct	Ma	P	S	SL	Cu	ML	CEI
W48x13	1311928	82	58700	72000	23 00	07	01	001	007	038	21	18	05	23
D40 00 00	A992-11	81	405	495	22 76	04	01	001	0073	0004	003	030	4 16	2676
W100x19 3			57900	71900	10 22									1276
D12 1928m			399	496	16 P(s)	0 320	lbs	Customer PO	93482					0
W8x18	1312347	83	57600	69500	24 39	07	01	001	007	031	20	16	05	24
D30 00 00	A992-11	82	397	479	27 16	04	01	001	0082	0003	004	031	3 90	2780
W200x26 6			56600	68900	10 P(s)	5 400	lbs	Customer PO	92991					1328
D09 1440m			390	475										0
W8x18	1312293	83	58500	70200	25 03	07	01	001	006	028	25	15	05	23
D55 00 00	A992-11	83	403	484	25 45	03	01	001	0073	0003	004	031	3 83	2725
W200x26 6			57600	69200	10 P(s)	9 900	lbs	Customer PO	92991					1270
D16 7640m			397	477										0
W8x18	1312340	82	56600	68700	25 11	07	01	001	007	031	20	16	05	24
D60 00 00	A992-11	82	390	474	25 43	06	01	001	0108	0003	004	026	3 99	2788
W200x26 6			56700	69100	30 P(s)	32 400	lbs	Customer PO	92991					1312
D18 2880m			391	476										0

Elongation based on B (20 32cm) gauge length. No Weld Repair was performed. Bg free and no contact with Bg during manufacture.
CI 26 01Cu+3 888+1 20Cr+1 49Si+17 28P (7 29Cu+1) - (9 10ML+P) 33 39(Cu+Cu) CEI = C+(Mn+Si)/5 + ((Cr+Mo+V)/5) + ((Al+Cu)/15)
PCm C+(Si/30)+(Mo/20)+(Cu/20)+(Mn/60)+(Cr/20)+(V/10)+58
I hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with material specifications and when designated by the purchaser meet applicable specifications.

Bruce A. Work
Metallurgist/
Quality Control

Handwritten signature

NUCOR STEEL BERRILEY
P O Box 2259
Mt Pleasant S C 29464
Phone (843) 336 6000

CERTIFIED MILL TEST REPORT

100% MELTED AND MANUFACTURED IN THE USA
All beams produced by Nucor-Berkeley are cast and
rolled to a fully killed and fine grain practice
Mercury has not been used in the direct manufacturing of this material

Sold To BROWN STRAUSS STEEL CO
2495 URAVAN STREET
ACCOUNTS PAYABLE STEEL
AURORA CO 80011

Shipped To BROWN STRAUSS
2495 URAVAN STREET
AURORA CO 80011

Customer # 458 - 2
B O L # 1036366
MOS R

SPECIFICATIONS Tested in accordance with ASTM specification A6 13/A6M 12 and A370 Quality Manual Rev #27

RSME SR-36 07a
ASTM A992 11 A36 12/A529 05 50/A572 5012a/A70913 50s
CSA 44W/C40 21-50W/C40 2130W/C40 21350W

Description	Test/Reel	Yield Grade(s) Tensile Ratio	Yield (PSI) (MPa)	Tensile (PSI) (MPa)	Elong %	C %	Mo %	P %	S %	S ₁ %	Cu %	Ni %	CE1 %	CE2 %
C10X3 3	1310232	84	58300	69700	24 DB	07	01	008	031	25	17	05	23	
060 00 00	A992 11	83	402	481	25 13	04	01	0091	0004	005	029	14	2756	
C230X22 8			57900	69400	12 PC(s)	11	016	001	0091	0004	029	14	1328	
018 2880W			399	479	12 PC(s)	11	016	001	0091	0004	029	14	1328	
C15X3 3	1310452	81	61000	75000	22 76	07	01	009	039	28	27	08	28	
050 00 00	A992-11	82	421	517	23 79	06	01	0114	0004	004	031	05	3325	
C381X50 44			60900	74300	8 PC(s)	13	056	001	0091	0004	029	14	1482	
015 2400W			420	512	8 PC(s)	13	056	001	0091	0004	029	14	1482	
W14X22	2312119	83	57700	69400	25 71	07	01	008	029	18	16	05	24	
065 00 00	A992-11	83	398	479	26 53	04	01	0085	0003	004	027	05	2733	
W360X32 9			57400	69000	21 PC(s)	30	030	001	008	028	13	04	2682	
019 8120W			396	476	21 PC(s)	30	030	001	008	028	13	04	2682	
W8X18	1312284	81	55500	68200	25 16	06	01	008	028	23	13	04	22	
035 00 00	A992-11	82	383	470	26 19	04	01	0060	0003	0049	028	13	2682	
W200X26 6			56600	68000	10 PC(s)	6	300	001	0060	0003	0049	028	2682	
010 5660W			390	476	10 PC(s)	6	300	001	0060	0003	0049	028	2682	

Elongation based on B (20 32cm) gauge length No weld repair was performed
CI = 26 01Cu+3 88Ni+1 20Cr+1 49Si+17 28P (7 29Cu+Ni)-9 10Ni+P 33 33(Cu+Ni)
PC = C+(S+20)+(Mn+20)+(Cu+20)+(Ni+50)+(Cr+20)+(Mo+15)+(V+10)+B
ND
I hereby certify that the contents of this report are accurate and correct
All test results and operations performed by the material manufacturer are in compliance with material specifications and when designated by the purchaser meet applicable specifications

BRUCE A. WORK
Bruce A. Work
Metallurgist/
Quality Control



US MIL MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN TX 76065
USA

CERTIFIED MATERIAL TEST REPORT

Page 1/1

CUSTOMER SHIP TO BROWN STRAUSS STEEL DIVISION O BROWN STRAUSS STEEL DIVISION O TRACK 730 ZONE 15 DENVER CO 80239 USA		CUSTOMER BILL TO 2495 URAVAN ST AURORA CO 80011 3539 USA		GRADE 992572 50	SHAPE / SIZE Wide Flange Beam / 8 X 18# / 200 X 26 6
SALES ORDER 487054/000120		CUSTOMER MATERIAL N		LENGTH 40 00	WEIGHT 8 640 LB
CUSTOMER PURCHASE ORDER NUMBER 92096		BILL OF LADING 1327-0000070667		DATE 08/28/2013	
				SPECIFICATION / DATE OF REVISION ASTM A572M-07 ASTM A572M-07 ASTM A572M-07 ASTM A572M-07	

CHEMICAL COMPOSITION	C	M	P	S	S	C	N	C	M	S	V	Nb	Al
	0.09	0.54	0.028	0.023	0.23	0.34	0.09	0.22	0.029	0.016	0.002	0.009	0.003

CHEMICAL COMPOSITION	CE ₁ A6	0.3
----------------------	--------------------	-----

MECHANICAL PROPERTIES	YS	UTS	YS	UTS	EL
	KSI	KSI	MPa	MPa	%
	55.2	73.4	379	499	25.60
	54.9	72.4	381	506	25.80

MECHANICAL PROPERTIES	EL	Y/T	UTS
	%	MPa	MPa
	25.60	0.758	499
	25.80	0.752	506

COMMENTS / NOTES

The above figures are certified chemical and physical test records as contained in the permanent records of company. This material, including the billets, was melted and manufactured in the USA. CMTR complies with EN 10204 3.1

Shasky SHASKAS VALAMANCHILI
QUALITY DIRECTOR

Donldonf TOM HARRINGTON
QUALITY ASSURANCE MGR



GERDAU

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

CERTIFIED MATERIAL TEST REPORT

Page 1/1

CUSTOMER SHIP TO BROWN STRAUSS STEEL DIVISION O BROWN STRAUSS STEEL DIVISION O TRACK 730 ZONE 15 DENVER, CO 80239 USA		CUSTOMER BILL TO 2495 URAVAN ST AURORA, CO 80011-3539 USA		GRADE 992572-50	SHAPE / SIZE Wide Flange Beam / 8 X 18# / 200 X 26.6
SALES ORDER 390560/000020		CUSTOMER MATERIAL N°		LENGTH 50'0"	WEIGHT 10,800 LB
BILL OF LADING 1327-0000061801		DATE 07/01/2013		SPECIFICATION / DATE OF REVISION A572/A572M-07 A592/A592M-11 ASTM A66/A66M-11	
CUSTOMER PURCHASE ORDER NUMBER 90255					

CHEMICAL COMPOSITION									
C %	Mn %	P %	S %	Si %	Cu %	Ni %	Cr %	Nb %	Al %
0.09	1.00	0.012	0.011	0.30	0.30	0.07	0.18	0.015	0.004

CHEMICAL COMPOSITION									
C %	Mn %	P %	S %	Si %	Cu %	Ni %	Cr %	Nb %	Al %
0.3									

MECHANICAL PROPERTIES					
YS	UTS	YS	UTS	CFI	CFI
KSI	KSI	MPa	MPa	inch	mm
56.8	79.5	387	539	8.000	200.0
56.2	78.3	392	548		

MECHANICAL PROPERTIES	
Elong- %	Y/T int %
22.20	0.719
22.70	0.715

COMMENTS / NOTES

The above figures are certified chemical and physical test records as contained in the permanent records of company. This material, including the billers, was included and manufactured in the USA. CMTR complies with EN 10204 3.1.

Maskery
BRASKAR VALAMANCHILI
QUALITY DIRECTOR

David L. Barrington
TON LARRINGTON
QUALITY ASSURANCE MGR.



SIMEC INTERNATIONAL 6, S.A. DE C.V.

MATRIZ: AV. LAZARO CARDENAS No. 601 EDIF. "A" PISO 3º-1
COL. LA HOGALERA GUADALAJARA, JALISCO MEXICO C.P. 44700
TEL.: (01-33) 3770-6700 FAX: 3770-6718

SUCURSAL MEXICALI: LOTES 1 Y 2, INT. "P"
COL. COLORADO NUM. 4 DELEG. CERRO PRIETO,
MEXICALI, B.C., MEX. C.P. 21740
TEL.: (01-659) 602-5285 FAX: 602-8912

PACKING LIST / MILL TEST REPORT BILL OF LADING

CLIENTE/CUSTOMER 9005080	ENTREGAR EN/SHIP TO BROWN-SIMPRESS STEEL 2455 URBAN ST MINERA, CO 80011 <i>Solo To</i>	CONSIGNADO A/CONSIGNED TO ING. JOE GUILLERMO NICHIPPA ALVARO CHERON NO. 701 LOCAL 5-6-7 ZONA CENTRO MEXICALI B.C.
-----------------------------	--	--

PEDIDO CLIENTE CUSTOMER ORDER	FECHA PEDIDO DATE ORDERED	PEDIDO OUR REFERENCE	VIA DE EMBARQUE SHIP VIA	PLACAS LICENSE PLATES	GUIA EMBARQUE SHIPMENT No.	PESADO POR WEIGHTED BY	No. REMISION PACKING LIST No.	FECHA DATE
63124	16/05/12	002269	JL SCS	4DL5487	000001	NICHIPPA	0039856	16/05/12

PTA. LINE	DESCRIPCION DESCRIPTION	ACERO STEEL	LONG LENGTH	CAL. QTY.	TONS. PEDIDO TONS. ORDERED	EMBARQUE SHIPPED	POR SURTIR BALANCE	No. PIEZAS PIECES	No. ATADOS BUNDLES
1	STD I-BEAM 6"x12.5 P/FT	A36	1220	P	4	3.042	1.9	9	1

T	CHEMICAL ANALYSIS											MECHANICAL PROPERTIES		
	% P	% S	% C	% CU	% MO	% SI	% NI	% CR	% V	% MN	% CE	YIELD (LB/IN ²)	TENSILE (LB/IN ²)	ELONG (IN/FT)
395088	.0180	.0410	.1900	.2600	.0400	.3000	.1400	.1700	.0000	.6700	.0000	50.9	72.7	

HEAT	BUNDLES BY HEAT	SPECIFICATIONS
0395088	TW03573	A36 / A36-05

REV. 3 (SC-013N)

CONSIGNEE ACCEPTANCE



MFRJ

QUALITY ASSURANCE



Structural and Rail Division • Columbia City, Indiana

Ship to:

PACIFIC STEEL & RECYCLING

Customer Pick-Up
Pacific Steel (MT) - CPU MT, 59807 US

Customer # 001214

Bill to:

PACIFIC STEEL & RECYCLING

PO Box 1549
Great Falls MT 59403-1154

Attn: Linda Larson

CERTIFIED MILL TEST REPORT

Printed: 02 / 15 / 2012
Produced: 01 / 31 / 2012

Produced: 01 / 31 / 2012

(260) 625-8100 (260) 625-8950 FAX

and Manufactured in the USA

Recycled content: PC = 83%, PI = 13%

ISO 9001:2008 and ABS Certified

GENERAL INFORMATION

Product Wide Flange Beam

Size W8X18

~~W-200-x-26.6~~

Heat Number B072651
Condition(s) As-Rolled

Fine Grained
Early Adopt

**Fully Killed
No Weld Repair**

CHEMICAL ANALYSIS (weight percent)

Analysis type	Heat	1	5.23	*PC	.14	*C3	.26	*C2	.31	*C1	.27	B	.0008	N	.0133	Nb/Cb	>.001	V	.025	Sn	.011	Mo	.025	Cr	.05	Ni	.09	Cu	.25	Si	.21	S	.024	P	.016	Mn	1.05	C	.06
---------------	------	---	------	-----	-----	-----	-----	-----	-----	-----	-----	---	-------	---	-------	-------	-------	---	------	----	------	----	------	----	-----	----	-----	----	-----	----	-----	---	------	---	------	----	------	---	-----

MECHANICAL TESTING

Test	Yield (fy) Strength ksi / MPa	Tensile (fu) Strength ksi / MPa	fy / fu ratio	% Elong. {8" gage}	Charpy Impact Tests (available only when specimens are tested)					
					Temp F / C	Absorbed Energy Specimen 1	Specimen 2	Specimen 3	Average	Minimum
1	55 / 377	70 / 484	.78	24						
2	55 / 378	70 / 486	.78	26						
3										
4										

Notes: *Calculated Chemistry Values: Carbon Equivalents (C1, C2, C3, PC), Corrosion Index (I)

$$1 \text{ (ASTM-G10)} = 26.01(\text{Cu}) + 2.88(\text{Ni}) + 1.29(\text{Cr}) + 1.49(\text{S}) + 17.29\text{P} + 7.29(\text{Cu})(\text{Ni}) - 8.10(\text{Ni})(\text{P}) - 33.39(\text{Cu})^2$$

I hereby certify that the material described herein has been made to the applicable specification by the electric arc furnace/continuous cast process and tested in accordance with the requirements of American Bureau of Shipping Rules with satisfactory results.

Signed:

I hereby certify that the content of this report are accurate and correct. All tests and operations performed by this material manufacturer are in compliance with the requirements of the material specifications and applicable purchaser designated requirements.

Signed:

Form F-6100-002-054 rev 4

ASTM A5 - 14.6: A signature is not required on the test report; however, the organization submitting the report is responsible for the content of the report. Notwithstanding the absence of a signature, the organization submitting the report is responsible for the content of the report.

Page 1 of 2

Signed:

Notary Public

My commission expires:

ABS CERTIFICATION

State of Indiana, County of Whitley Sworn to and subscribed before me

this _____ day of _____

Signed:

ify the organization submitting the report..

Page 1 of 2



CERTIFIED MATERIAL TEST REPORT

Page 1/1

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

CUSTOMER PURCHASE ORDER NUMBER
03063843

BILL OF LADING
1327-0000070981

DATE
08/29/2013

SPECIFICATION / DATE OF REVISION
ASTM A618M-07
ASTM A618M-11

CUSTOMER SHIP TO
NORFOLK IRON & METAL CO. INC
3181 WELD WCR 3912
GREENE, CO 80632
USA

CUSTOMER BILL TO
NORFOLK IRON & METAL CO INC
NORFOLK, NE 68702-1129
USA

GRADE
992572-50

SHAPE / SIZE
Wide Flange Beam / 8 X 18# / 200 X 26.6

WEIGHT
25.920 LB

HEAT / BATCH
5905703002

SALES ORDER
496671000010

CUSTOMER MATERIAL N°
00261

LENGTH
40'00"

CHEMICAL COMPOSITION											
C	Mn	P	S	Si	Ca	Ni	Cu	Mo	Sa	V	Nb
0.29	0.90	0.022	0.024	0.26	0.22	0.09	0.21	0.024	0.006	0.002	0.010
											Al
											0.003

CHEMICAL COMPOSITION
CERMA6
0.3

MECHANICAL PROPERTIES					
YS	UTS	YS	UTS	CL	CL
KSI	KSI	MPS	MPS	inch	mm
53.1	69.3	366	484	200.0	200.0
53.1	70.2	366	481	200.0	200.0

MECHANICAL PROPERTIES
Elong
%
25.00
24.30
0.756
0.761

COMMENTS / NOTES

Division
QUALITY DIRECTOR

NUCOR
NUCOR CORPORATION
NUCOR STEEL UTAH

Mill Certification
10/17/2012

PO Box 100
 7285 West 21200 North
 PLYMOUTH, UT 84330
 (435) 458-2300
 Fax: (435) 458-2309

Sold To: PACIFIC STEEL - BILLINGS
 145 SUGAR AVE.
 BILLINGS, MT 59107-0000

Ship To: PACIFIC STEEL & RECYCLING
 145 SUGAR AVE.
 A/P 1124701
 BILLINGS, MT 59107
 (406) 259-1114
 Fax: (406) 259-1128

Customer P.O.	2021102	Sales Order	183884.14
Product Group	Merchant Bar Quality	Part Number	300012502403450
Grade	ASTM A529/A529M-05 gr50/CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1210645401
Size	1-1/4" (1.2500) Round	Heat #	PL12106454
Product	1-1/4" Round 20' A36/44W/529gr50	B.L. Number	U1-419023
Description	A36/44W/529gr50	Load Number	U1-235275
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 9/27/2012 Melt Date: 9/22/2012 Qty Shipped LBS: 4,009 Qty Shipped Pcs: 48

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
 ASME SA36-2007 EDITION-2011 ADDENDA
 ASTM A529/A529M-05 GR 50
 ASTM A709/A709M-11 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.18%	0.79%	0.017%	0.024%	0.23%	0.26%	0.13%	0.18%	0.031%	0.0257%	0.001%

Yield 1: 58,579psi (404MPa)	Tensile 1: 78,810psi (543MPa)	Elongation: 27% in 8"(% in 203.3mm)
Yield 2: 58,388psi (403MPa)	Tensile 2: 78,697psi (543MPa)	Elongation 28% in 8"(% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
 CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.



Cory Anthony
 Division Metallurgist

NUCOR
NUCOR CORPORATION
NUCOR STEEL UTAH

Mill Certification
10/22/2013

PO Box 100
 7285 West 21200 North
 PLYMOUTH, UT 84330
 (435) 458-2300
 Fax: (435) 458-2300

Sold To: SCHNITZER BILLINGS
 1100 6TH AVE N
 PO BOX 1154
 BILLINGS, MT 59101
 (406) 252-8080
 Fax: (406) 252-0843

Ship To: SCHNITZER BILLINGS
 1100 6TH AVE, NORTH
 P.O. BOX 1154
 BILLINGS, MT 59103-0000
 (406) 252-8080
 Fax: (406) 252-0843

Customer P.O.	22192	Sales Order	204242.1
Product Group	Merchant Bar Quality	Part Number	300006252403450
Grade	ASTM A529/A529M-05 gr50/CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1320727051
Size	5/8" (.6250) Round	Heat #	PL13207270
Product	5/8" (.6250) Round-20" A36/44W/529gr50/50W	B.L. Number	U1-451709
Description	A36/44W/529gr50/50W	Load Number	U1-285855
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 10/19/2013 Melt Date: 10/18/2013 Qty Shipped LBS: 4,339 Qty Shipped Pcs: 208

ASTM A36/A36M-12, A709/709M-13 GR36, ASME SA36-10 Ed '11 Ad.
 ASME SA36-2010 EDITION-2011 ADDENDUM
 ASTM A529/A529M-05 GR 50
 ASTM A709/A709M-13 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.10%	0.76%	0.012%	0.035%	0.24%	0.30%	0.10%	0.11%	0.031%	0.0006%	0.001%

Yield 1: 55,333psi (382MPa)

Tensile 1: 78,138psi (539MPa)

Elongation: 25% in 8" (% in 203.3mm)

Yield 2: 54,421psi (375MPa)

Tensile 2: 78,043psi (538MPa)

Elongation 26% in 8" (% in 203.3mm)

Weight Variation 001.0%

Certification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
 CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.

Cory Anthony

Cory Anthony
 Division Metallurgist



Norfolk Iron & Metal Co.

3001 North Victory Road
Norfolk, NE 68701
PH: (402) 371-1810

Test Certificate

Document: 03037352

Product Description

Thickness: .2500

Heat: B2H786

Supplier: SSAB NORTH AMERICAN DIV

Specification(s): A36 PLATE-12, SA36-2010

Chemistry Data

C	MN	P	S	SI	AL	CB	V	CU	CR
.15	.84	.012	.003	.03	.025	.001	.005	.30	.09
NI	MO	SN	TI	N	B	ZR			
.15	.04	.00	.013	.0076	.0001	.00			

Mechanical Data

	Yield (PSI)	Tensile (PSI)	Elongation	Reduction Of Area	Sample Taken From
1	52479	69843	41.00 2"	62.2200	Head
2	50341	68706	27.00 2"	52.8400	Center
3	60613	78377	32.50 2"	55.0100	Head
4	62104	75851	28.50 2"	61.1000	Center

Produced From Coil

Melted and Manufactured In: UNITED STATES

The Mechanical Data for the product described above reflect the results of tests made by us in accordance with applicable ASTM or ASME standards and our testing procedures, and we certify that the information included in this Test Certificate with respect to such Mechanical Data is accurate to the best of our knowledge.

The Chemistry Data shown above was reported to us by SSAB NORTH AMERICAN DIV and have been included in this Test Certificate solely for your information.

NUCOR
NUCOR CORPORATION
NUCOR STEEL UTAH

Mill Certification
11/5/2013

PO Box 100
 7285 West 21200 North
 PLYMOUTH, UT 84330
 (435) 458-2300
 Fax: (435) 458-2309

Sold To: PACIFIC STEEL - BILLINGS
 145 SUGAR AVE.
 BILLINGS, MT 59107-0000

Ship To: PACIFIC STEEL & RECYCLING
 145 SUGAR AVE.
 A/P 1124701
 BILLINGS, MT 59107
 (406) 259-1114
 Fax: (406) 259-1128

Customer P.O.	2022534	Sales Order	205609.23
Product Group	Merchant Bar Quality	Part Number	532508002400050
Grade	ASTM A36/A529GR50/A572GR50T2 CSA 44W/50W	Lot #	PL1320689201
Size	1/4x8" Flat	Heat #	PL13206892
Product	1/4x8" Flat 20'A36/A529/A572/44W/50W	B.L. Number	U1-453023
Description	A36/A529/A572/44W/50W	Load Number	U1-266536
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 10/8/2013 Melt Date: 10/3/2013 Qty Shipped LBS: 7,894 Qty Shipped Pcs: 58

ASTM A36/A36M-12, A709/709M-13 GR36, ASME SA36-10 Ed '11 Ad.
 ASME SA36-2010 EDITION-2011 ADDENDA
 ASTM A709/A709M-13 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.14%	0.66%	0.010%	0.042%	0.19%	0.23%	0.09%	0.12%	0.025%	0.0133%	0.001%

Yield 1: 52,196psi (360MPa)	Tensile 1: 72,187psi (498MPa)	Elongation: 33% in 8" (% in 203.3mm)
Yield 2: 52,114psi (359MPa)	Tensile 2: 71,823psi (495MPa)	Elongation 34% in 8" (% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
 CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.



Cory Anthony
 Division Metallurgist

Page 2 of 9

INTSEL

STEEL WEST

1887 S 700 W * Salt Lake City, UT 84104 * Phone 800-323-4783 * Fax 801-972-6145

Material Chemistry Report

Spec: CQ
Coil: U564136
Size: STT 1/8" X 5" X 20'

Coil #	Heat #	C	Mn	P	S	Si	Cu	Ni	Cr	B	Al
B564136	41029800	0.0300	0.2200	0.0090	0.0020	0.0900	0.1100	0.0000	0.0600	0.0059	0.0290
Coil #	Heat #	Ti	Mo	Cb(Nb)	N	V	Sn	Yd.(ksi)	Tn.(ksi)	El.%(2")	Origin
B564136	41029800	0	0	0.0000	0	0.0020	0.000				USA

This is to certify that the test results stated herein are accurate as contained in the records of Alta Metal Sales & Processing:
This material was melted and and manufactured in the country listed in "Origin" column.

By: Jerry J. Fede

Date: 2/24/2011

NUCOR
NUCOR CORPORATION
NUCOR STEEL UTAH

Mill Certification
11/5/2013

PO Box 100
 7285 West 21200 North
 PLYMOUTH, UT 84330
 (435) 458-2300
 Fax: (435) 458-2309

Sold To: PACIFIC STEEL - BILLINGS
 145 SUGAR AVE.
 BILLINGS, MT 59107-0000

Shp To: PACIFIC STEEL & RECYCLING
 145 SUGAR AVE.
 A/P 1124701
 BILLINGS, MT 59107
 (406) 259-1114
 Fax: (406) 259-1128

Customer P.O.	2022534	Sales Order	205609.23
Product Group	Merchant Bar Quality	Part Number	532508002400050
Grade	ASTM A36/A529GR50/A572GR50T2 CSA 44W/50W	Lot #	PL1320689201
Size	1/4x8" Flat	Heat #	PL13206892
Product	1/4x8" Flat 20'A36/A529/A572/44W/50W	B.L. Number	U1-453023
Description	A36/A529/A572/44W/50W	Load Number	U1-266536
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 10/8/2013 Melt Date: 10/3/2013 Qty Shipped LBS: 7,894 Qty Shipped Pcs: 58

ASTM A36/A36M-12, A709/709M-13 GR36, ASME SA36-10 Ed '11 Ad.
 ASME SA36-2010 EDITION-2011 ADDENDA
 ASTM A709/A709M-13 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.14%	0.66%	0.010%	0.042%	0.19%	0.23%	0.09%	0.12%	0.025%	0.0133%	0.001%

Yield 1: 52,196psi (360MPa) Tensile 1: 72,187psi (498MPa) Elongation: 33% in 8"(% in 203.3mm)
 Yield 2: 52,114psi (359MPa) Tensile 2: 71,823psi (495MPa) Elongation 34% in 8"(% in 203.3mm)

Specification Comments:

Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL
 CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.



Cory Anthony
 Division Metallurgist

Page 2 of 9

NUCOR
NUCOR CORPORATION
NUCOR STEEL UTAH

Mill Certification
8/20/2013

PO Box 100
 7285 West 21200 North
 PLYMOUTH, UT 84330
 (435) 458-2300
 Fax: (435) 458-2309

Sold To: PACIFIC STEEL - BILLINGS
 145 SUGAR AVE.
 BILLINGS, MT 59107-0000

Ship To: PACIFIC STEEL & RECYCLING
 145 SUGAR AVE.
 A/P 1124701
 BILLINGS, MT 59107
 (406) 259-1114
 Fax: (406) 259-1128

Customer P.O.	2022191	Sales Order	200018.21
Product Group	Merchant Bar Quality	Part Number	533755002404460
Grade	CSA G40.21-04 44W/ASTM A36/A36M-08	Lot #	PL1320504102
Size	3/8x5" Flat	Heat #	PL13205041
Product	3/8x5" Flat 20' A36/44W	B.L. Number	U1-446275
Description	A36/44W	Load Number	U1-260477
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 7/25/2013 Melt Date: 7/13/2013 Qty Shipped LBS: 4,083 Qty Shipped Pcs: 32

ASTM A36/A36M-08, A709/709M-11 GR36, ASME SA36-10 Ed '11 Ad.
 ASME SA36-2007 EDITION-2011 ADDENDA
 ASTM A709/A709M-11 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	CE4020
0.15%	0.79%	0.011%	0.040%	0.22%	0.29%	0.09%	0.16%	0.030%	0.0019%	0.000%	0.35%

CE4020: G40.20 CARBON EQUIVALENT

Yield 1: 48,269psi (333MPa)	Tensile 1: 68,351psi (471MPa)	Elongation: 32% In 8"(% In 203.3mm)
Yield 2: 47,371psi (327MPa)	Tensile 2: 68,513psi (472MPa)	Elongation 33% In 8"(% In 203.3mm)

Specification Comments:

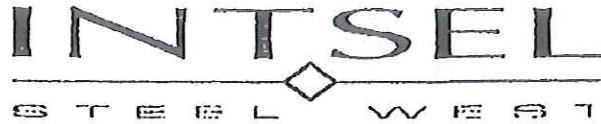
Comments: NUCOR - PLYMOUTH IS AN I.S.O. 9001 AND AN A.B.S. CERTIFIED MILL.
 CMTR COMPLIES WITH DIN EN 10204 - 3.1.B

ALL MANUFACTURING PROCESSES OF THE STEEL MATERIALS IN THIS PRODUCT, INCLUDING MELTING, HAVE OCCURRED WITHIN THE UNITED STATES. ALL PRODUCTS PRODUCED ARE WELD FREE. MERCURY, IN ANY FORM, HAS NOT BEEN USED IN THE PRODUCTION OR TESTING OF THIS MATERIAL.



Cory Anthony
 Division Metallurgist

Page 4 of 9



1887 S 700 W * Salt Lake City, UT 84104 * Phone 800-323-4783 * Fax 801-972-6145

Material Chemistry Report

Spec: CQ
Coil: B564136
Size: STT 1/8" X 5" X 20'

Coil #	Heat #	C	Mn	P	S	Si	Cu	Ni	Cr	B	Al
B564136	41029800	0.0300	0.2200	0.0090	0.0020	0.0900	0.1100	0.0000	0.0600	0.0059	0.0290
Coil #	Heat #	Ti	Mo	Cb(Nb)	N	V	Sn	Yd.(ksi)	Tn.(ksi)	El.%(2")	Origin
B564136	41029800	0	0	0.0000	0	0.0020	0.000				USA

This is to certify that the test results stated herein are accurate as contained in the records of Alta Metal Sales & Processing:
This material was melted and and manufactured in the country listed in "Origin" column.

By: Jerry J. Fede

Date: 2/24/2011