

400BBL TANKS

Certifications & MTR's

Manufactured By:



For



400BBL TANKS

Certifications & MTR's

•Plate

Manufactured By:



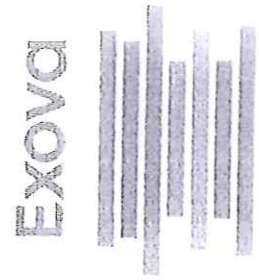
For



Exova
1440 Graham's Lane, Unit 99
Burlington
Ontario
Canada
L7S 1W3

T: +1 (905) 631-7785
F: +1 (905) 631-7785
E: sales@exova.com
W: www.exova.com

712/13
20F2



Test Certificate

Janco Steel Limited
925 Arvin Avenue
Stoney Creek
Ontario
Canada
L8E 5N9
Attn: C. Elder

REF No
Page
Ord No
Date Tested
Date Reported

B 307779 : Issue 1
1 of 1
NA Wk 06/24/13
07/02/13
07/02/13

Item - Tag#: 327654 Heat#: 111985 Test#: 13782/13783
Description: HR plate .485x58.50-55830#

Specification - ASTM A36(12)/CSA G40.21(04)44W/CSA G40.21(04)50W

Tensile Test - ASTM A 370-12a								
	Dimensions [in]	Area [in ²]	GL [in]	0.20%YS [psi]	UTS [psi]	%E1	%RA	Comments
001: Transverse	0.4940x 0.5090	0.2514	2.00	63800	73000	34	N/A	Lead
002: Transverse	0.4920x 0.5100	0.2509	2.00	58000	66100	40	N/A	Center

Certificate Comments

Sample(s) tested meet the requirements of CSA G40.21-04 Grade 44W/50W
And ASTM A36-12 with respect to the tests conducted above

Tested by Exova Burlington Laboratory

Steve Frederiksen
Mechanical Technician
Signed for and on behalf of
Exova Burlington Laboratory

ArcelorMittel Dofasco Inc.
P.O. Box 2460
Hamilton, Ontario
L8N 3J5

TEST REPORT
RAPPORT D'ESSAI

Attention: Ann-Marie Vandencever
Email: avandencever@jancostesi.com
Date: 06/03/2013

Page 1 of 1

Purchase Order/Bon de Commande
012158-3 JUN
Bill of Lading/Connaissance
640808
Sold To/Vendu A
JANCO STEEL LTD.
925 ARVIN AVE.
STONEY CREEK, ON.
192 5N9

Customer/Client
373510

Sales Order/Bon de Commande
PCS 316842005

Verdazyl/Verdazyl

Packing Slip/Bordereau de Charge

Vehicle or Carrier/Vehicule ou Transporteur
JANCO STEEL/RAC

Ship To/Expediter A
JANCO STEEL
925 ARVIN AVE,
STONEY CREEK, ON.
L0E 5N9

Spec/Norm et spec.
FOR CONVERSION TO CSA G40.21 GRADE 50W
STANDARD THICKNESS TOLERANCE
TEST REPORTS REQUIRED
CODE NSC QTD4989-16

Material Description/Description du Material
 PLATE-IN-COIL FOR CONVERSION
 STRUCTURAL STEEL
 COILS
 MILL EDGE PLAIN DRY

.4850 MIN .5000 X 58 X COIL
Weight - 55830 LBS
Test Methods
ASTM A370, E1019, E415

MECHANICAL PROPERTIES

HEAT	SERIAL NUMBER	LIFT NUMBER	KSI	GAUGE LENGTH 2 INCH	YIELD STRENGTH	ULTIMATE STRENGTH	ELONG
COURSE	NOMBRE DE SERIE	NOMBRE DE	RESISTANCE A LA	RESISTANCE A LA	ALLONG		
		PAROIR	D'ELASTICITE	TRACTION			
111865	F71456/00	5450373	66	73			29

254

HEAT																			
COULEE	C	Mn	P	S	Si	Cu	Ni	Cr	Sn	Mo	Als	Alt	Cb	V	Ti	Ca	N	B	O
111985	.07	.59	.006	.003	.03	.13	.04	.05	.013	.014	.030	.031	.049	.002	.014	.003	.6078	.2902	0

ArcelorMittal Dofasco Inc. as per Diane Skupny-MacBride - CMCL Supervisor

The Results Relate Only To The Items Tested

This Report Shall Not Be Reproduced Except In Full Without The Expressed Written Approval of The CMTI Supervisor.

This Contract Is Subject To The Terms And Conditions Of Sale Shown On The Order Acknowledgement.
Ce Contrat est Sujet aux Termes et Conditions de Vente Indiqués Sur l'Accusé de Réception de Commande.



WHITBY STEEL MILL
HOPKINS STREET SOUTH
WHITBY ON L1N 5T1 CAN
(905) 668-8811

Chemical and Physical Test Report
MADE IN CANADA

SHIP TO A J FORSYTH A DIVISION OF RUSSEL METALS CN TRACK P-14700 PRINCE GEORGE, BC	INVOICE TO A J FORSYTH DIV OF RUSSEL MTL ACCTS PAYABLE 830 CARLSLE RD DELTA, BC V3M 5P4	SHIP DATE 07/27/12 CUST. ACCOUNT NO 60120581
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PRODUCED IN: CAMBRIDGE

SHAPE + SIZE	GRADE	SPECIFICATION	SALES ORDER	CUST P.O. NUMBER
S518	44W	ASTM A36/A36M-08; CSA G40.21-300W-04(44W)	2016960-03	72028345-03
HEAT ID	C	Mn .16 P .014 S .035 Si .17 Cu .34 Ni .10 Cr .11 Mo .080 V .004 Nb .002 B .0002 Sn .020 Al .001 Ti .00100 Zr .001 Ca .00010 Zn .00200 C Eqv .34		

Mechanical Test: Yield 51237 PSI, 353.27 MPa Tensile: 71064 PSI, 489.97 MPa %El: 23.0/8in, 23.0/200MM Red R 63.9 : 1
Customer Requirements CASTING: STRAND CAST
Mechanical Test: Yield 49256 PSI, 339.61 MPa Tensile: 71047 PSI, 489.85 MPa %El: 26.0/8in, 26.0/200MM Red R 63.9 : 1
Customer Requirements CASTING: STRAND CAST
CUST ITEM NUMBER: 37645

PRODUCED IN: CAMBRIDGE

SHAPE + SIZE	GRADE	SPECIFICATION	SALES ORDER	CUST P.O. NUMBER
F1 X 2	44W	CSA-G40.21-300W-04(44W); ASTM A36M-08	2056033-05	72029391-05
HEAT ID	C	Mn .74 P .012 S .034 Si .21 Cu .42 Ni .13 Cr .14 Mo .050 V .002 Nb .000 B .0001 Sn .014 Al .000 Ti .00000 Zr .001 Ca .00000 Zn .00700 C Eqv .4		

Mechanical Test: Yield 49836 PSI, 343.61 MPa Tensile: 76514 PSI, 527.55 MPa %El: 21.0/8in, 21.0/200MM Red R 12.5 : 1
Customer Requirements CASTING: STRAND CAST
Mechanical Test: Yield 49836 PSI, 343.61 MPa Tensile: 76313 PSI, 526.16 MPa %El: 20.0/8in, 20.0/200MM Red R 12.5 : 1
Customer Requirements CASTING: STRAND CAST
CUST ITEM NUMBER: 38452



0720007243

Customer Notes
NO WELD REPAIRMENT PERFORMED. STEEL NOT EXPOSED TO MERCURY.
This material, including the billets, was melted and manufactured in Canada
Braskar Yalamanchill

THE ABOVE FIGURES ARE CERTIFIED CHEMICAL AND PHYSICAL TEST RECORDS AS CONTAINED IN THE
PERMANENT RECORDS OF COMPANY.

Quality Director
Gerdau

Don Hand

Metallurgical Services Manager
CAMBRIDGE STEEL MILL

Seller warrants that all material furnished shall comply with specifications subject to standard published manufacturing variations. NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY THE
SELLER. AND SPECIFICALLY EXCLUDED ARE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
In no event shall seller be liable for indirect, consequential or punitive damages arising out of or related to the materials furnished by seller.
Any claim for damages for materials that do not conform to specifications must be made from buyer to seller immediately after delivery or same in order to allow the seller the opportunity to inspect the material in
question.

검사증명서

MILL TEST CERTIFICATE

79058295
L2#8

PO: 820-1



영진제철소: 용남 영진제철을 고대리 157-32
Godeok-RI, Songdeok-Eup, Daegu, Chungnam, Korea

주문번호
Order No. : E130400023

품명
Commodity : Hot Rolled Steel Plate

제품규격
Specification : CSA 44W/ASTM A36

고객사 : HYUNDAI CORPORATION
Contractor : HYUNDAI CORPORATION

주요사항 : 20130706-PS-001-002
Certificate No. : 2013-07-06

제품사수 Dimension	수량 Quantity	중량 Weight (Kg)	재질번호 Heat No.	제품번호 Product No.	인장시험 Tensile Test										화학성분 Chemical Composition(%)										합격/불합 OK/NG			
					YP		TS	E	YP-E		RA	YA	N	C		S	Mn	P	S	Cr	N	Co	Mo	Ne		Si	V	Sd
					(N/mm ²)	(%)	(%)	(%)	(%)	(%)	(%)	(%)		(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)		(%)	(%)	(%)
0.750" x 120" x 480"	1	5.555	M73722	FA3559302	T	327.2	482.7	29																				
0.750" x 120" x 480"	1	5.555	M73722	FA3559302	T	327.2	482.7	29																				

Sub Total

211.10(Kg)

2 x 100

3 x 1,000

4 x 10,000

5 x 100,000

*** Sub Total(CO2) *** 2 11.110(Kg)
*** Correlator of Subtotal ***
*** Lot Total *** 8 32.437(Kg)
*** Grade Total *** 8 32.437(Kg)
*** Last Item ***

Position : T:Top, M:Middle, B:Bottom
Tensile Test : Direction: Transverse, Gauge length: 200mm (Rectangular), YP method : 0.2% off-set
Division : C:Chemical analysis, L:Acid analysis

본 제품의 검사에 관한 규격과 시험 방법 및 시험 결과를 증명합니다.
WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND THE REQUIREMENTS

Signature

S.B. Park

SUPERVISOR : OFFICE OF QUALITY ASSURANCE TEAM

* 본 검사증명서는 원본인 전자문서(전자서명 정보 포함) 형태로
* This Mill Test Certificate is a copy that has been printed
* You are able to check an original electronic document at hi



1. 확인하실 수 있습니다. (http://sm.hyundai-steel.com/cs/cm/lopin.jsp)
om/cs/cm/lopin.jsp

0790003460

REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO. 1251130 DATE Aug 08, 2012 PAGE 1



SOLD TO

FORSYTH CO LTD
 830 CARLISLE ROAD
 ANNACIS INDUSTRIAL ESTATES
 DELTA, BC V3M 5P4
 CA

AT FORSYTH CO LTD-PRICE GEORGE
 990 INDUSTRIAL WAY
 PRICE GEORGE, BC V2N 5S1
 CANADA

MILL ORDER NO. 256553 DATE
 CUSTOMER ORDER NO. M79006219
 JOBREQ. NO.
 SHIPPING NO. 1251130 DATE 08/08/2012
 CARRIER T&P TRUCKING
 CARTRUCK NO. 502T

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS
 CARBON STRUCTURAL QUALITY PLATE CSA G40.21-04 GRADE 44W (300W). KILLED FINE GRAIN PRACTICE.

PHYSICAL PROPERTIES

ITEM NO.	DESCRIPTION	HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 8" 2"	% RA	HARDNESS BHN	BEND TEST	IMPACTS
1	0.2500 X 120.000ME X 480.000 SCHEDULE B:7208.52.00 PT# 45816									
	9 PCS 36756 LBS			570	730 26					
				570	730 28					
2	0.8750 X 96.000ME X 288.000 SCHEDULE B:7208.51.00 PT# 19796									
	2 PCS 13722 LBS			525	725 26					
	11 PCS 50478 LBS TOTALS									



0790002573

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	SI	Cu	NI	V	CB	Al	Cr	Mo	Ti	B	N	Ca	CE	mg/kg max 500
NW6125	.14	1.06	.012	.007	.24	.01	.05	.015	.011	.044	.02	.00						
RS1067	.05	1.22	.006	.001	.29	.30	.15	.001	.037	.031	.12	.06						
HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. HEATS INDICATED WITH (*) WERE ROLLED IN THE USA.																		
END OF REPORT																		

I certify the above to be correct as contained in the records of EVRAZ INC. NA By

QUALITY COORDINATOR

[Signature]

POSCO Mill Test Certificate/검사증명서

Certificate No./증명서번호: 120328-PPSE-004-001
Date of Issue/발행일자: Apr. 12, 2012

Order No./계약번호: 0005153925

PO No./주문번호: 9107-V

Supplier/공급사: DAE WOO INTERNATIONAL CORP.

Commodity/품명: PLATE

Customer/고객사: WIRTH STEEL

Spec & Type/규격: CSA40-300W/44W/A36

ORIGINAL

Size/치수	Product No. 제품번호	Quantity 수량	Weight 중량 (kg) (LBS)	Heat No. 열간번호	Tensile YS (MPa)	Tensile TS (MPa)	Elongation EL (%)	Additional Tensile YS (MPa)	Additional Tensile TS (MPa)	Additional Elongation EL (%)	Chemical Composition/화학성분 (%)
0.25"x6"x240"	PC90738701-9706	6	4,446	SF14330	362	543	22	376	546	23	C 0.35 Si 0.30 Mn 1.02 P 0.01 S 0.002 Cr 0.02 Ni 0.01 Cu 0.01 Mo 0.01 Nb 0.01 N 0.003 V 0.003
0.25"x6"x240"	PC90739801-9806	6	4,446	SF14331	362	555	24	373	544	21	C 0.35 Si 0.30 Mn 1.14 P 0.01 S 0.002 Cr 0.02 Ni 0.01 Cu 0.01 Mo 0.01 Nb 0.01 N 0.003 V 0.003
0.25"x6"x240"	PC90740701-0706	6	4,446	SF14331	362	555	24	373	544	21	C 0.35 Si 0.30 Mn 1.10 P 0.01 S 0.002 Cr 0.02 Ni 0.01 Cu 0.01 Mo 0.01 Nb 0.01 N 0.003 V 0.003
0.25"x6"x240"	PC90741201-1206	6	4,446	SF14331	362	555	24	373	544	21	C 0.35 Si 0.30 Mn 1.10 P 0.01 S 0.002 Cr 0.02 Ni 0.01 Cu 0.01 Mo 0.01 Nb 0.01 N 0.003 V 0.003
0.25"x6"x240"	PC90740801-0906	6	4,446	SF14331	364	549	21	376	549	23	C 0.35 Si 0.30 Mn 1.04 P 0.01 S 0.002 Cr 0.02 Ni 0.01 Cu 0.01 Mo 0.01 Nb 0.01 N 0.003 V 0.003
0.25"x6"x240"	PC90744201-4206	6	4,446	SF14371	360	554	25	363	547	23	C 0.35 Si 0.30 Mn 1.12 P 0.01 S 0.002 Cr 0.02 Ni 0.01 Cu 0.01 Mo 0.01 Nb 0.01 N 0.003 V 0.003
Sub Total	(010) ***	36	26,676	SF14328	369	558	23	369	547	25	C 0.35 Si 0.30 Mn 1.03 P 0.01 S 0.002 Cr 0.02 Ni 0.01 Cu 0.01 Mo 0.01 Nb 0.01 N 0.003 V 0.003
0.25"x6"x288"	PC90741301-1305	5	4,445	SF14328	360	550	23	369	547	25	C 0.35 Si 0.30 Mn 1.03 P 0.01 S 0.002 Cr 0.02 Ni 0.01 Cu 0.01 Mo 0.01 Nb 0.01 N 0.003 V 0.003
0.25"x6"x288"	PC90737901-7905	5	4,445	SF14330	362	543	22	376	546	23	C 0.35 Si 0.30 Mn 1.02 P 0.01 S 0.002 Cr 0.02 Ni 0.01 Cu 0.01 Mo 0.01 Nb 0.01 N 0.003 V 0.003

Surveyor To:

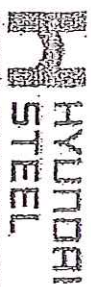
M. S. JANG

POSCO Pohang Works, 5 Dongchon-dong, Nam-gu, Pohang-si, Gyeongsangbuk-do, 790-785, Korea

Chief of Material Testing Section Man Soo Jang

0790002770

검사증명서 MILL TEST CERTIFICATE



당첨제철소: 용남 당진시 송악읍 괴대리 167-32
Godeok-ri, Songak-Eup, Dangjin, Chungnam, Korea

주문번호
Order No. : E130400023

품명
Commodity : Hot Rolled Steel Plate

제품규격
Specification : CSA 44W/ASTM A36

고객사 : AU FORSTYH
Contractor : HYUNDAI CORPORATION
증명서 번호 : 20130706-PS-001-001
발행일자 : 2013-07-06

제품사수 Dimension	수량 Quantity	중량 Weight (Kg)	재질번호 Heat No.	제품번호 Product No.	Position	인장시험 Tensile Test						화합성분 Chemical Composition(%)																단위 Unit			
						YP (N/mm ²)	TS (%)	EL (%)	RA (%)	VR (%)	N	C	S	Mn	P	S	Cr	N	Al	Mo	Nb	Ti	V	Si							
0.750" x 95" x 288"	1	2,696	M73730	FA3628-403	T	314.4	498.1	28				1.590	327	1.047	217	39	3	1	16	0	15	12	1	36							
0.750" x 95" x 288"	1	2,696	M73730	FA3628-404	T	314.4	498.1	28				1.590	327	1.047	217	39	3	1	16	0	15	12	1	36							
0.750" x 95" x 288"	1	2,696	M73730	FA3628-405	T	314.4	498.1	28				1.590	327	1.047	217	39	3	1	16	0	15	12	1	36							
*** Sub Total(CO2) *** 3 7,998(Kg)																															
*** Condition of supply: As-Rolled ***																															
0.750" x 95" x 480"	1	4,443	M73730	FA36220901	T	314.4	498.1	28				1.590	327	1.047	217	39	3	1	16	0	15	12	1	36							
0.750" x 95" x 480"	1	4,443	M73730	FA36220902	T	314.4	498.1	28				1.590	327	1.047	217	39	3	1	16	0	15	12	1	36							
0.750" x 95" x 480"	1	4,443	M73730	FA3628-401	T	314.4	498.1	28				1.590	327	1.047	217	39	3	1	16	0	15	12	1	36							
*** Sub Total(CO2) *** 3 13,329(Kg)																															
*** Condition of supply: As-Rolled ***																															
Position - T: Top, M: Middle, B: Bottom																															
Tensile test - Direction: Transverse, Gauge length: 200mm (Reclanular), YP method: 0.2% off-set																															
Division - C: Check analysis, L: Lead analysis																															
N O T E																															

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

Signature
SUPERIOR TO CHIEF OF QUALITY ASSURANCE TEAM
S. B. Park

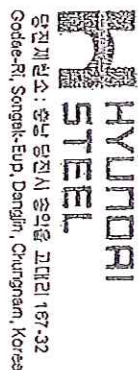
* 본 검사증명서는 원본의 전자문서(전자서명 정보 포함)로부터 출력된
* This Mill Test Certificate is a copy that has been printed from o.
* You are able to check an original electronic document at hyundaiis



원 수 있습니다.(http://sm.hyundai-steel.com/cs/cm/lopin.jsp)
cm/lopin.jsp)

0790003465

검사증명서 MILL TEST CERTIFICATE



당진제철소 : 충남 당진시 증곡동 고대리 167-32
Godeok-RI, Songki-Eup, Dangjin, Chungnam, Korea

주문번호 : E130400023
 Order No.
 상품명 : Hot Rolled Steel Plate
 Commodity :
 제품규격 : CSA 44W/ASTM A36
 Specification :
 고객사 : AU FORSYTH
 Customer :
 주문자 : HYUNDAI CORPORATION
 Contractor :
 증명서 번호 : 20130629-PS-002-002
 Certificate No.
 발행일자 : 2013-06-29
 Date of Issue

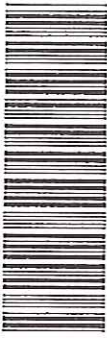
제품외수 Dimension	수량 Qty (Kg)	제강번호 Heat No.	제품번호 Product No.	인장시험 Tensile Test						화합성분 Chemical Composition(%)													탄소 C						
				YP (N/mm ²)	TS (%)	EL (%)	YF-EL (%)	RA (%)	YR (%)	Nr	C	Si	Mn	P	S	Cr	N	O	As	2x:100 4x:10.000	3x:1.000 5x:10.000	Ti	V	Sr					
0.375" x 96" x 480"	1	2,222	M77534	FA35804501	T	349.6	517.9	27									1.750	224	1.037	214	35	2	1	10	0	0	2	1	37
0.375" x 96" x 480"	1	2,222	M77534	FA35804502	T	349.6	517.9	27									1.753	216	1.050	208	34	2	1	10	0	0	1	1	37
0.375" x 96" x 480"	1	2,222	M77534	FA35804503	T	349.6	517.9	27									1.750	224	1.037	214	35	2	1	10	0	0	2	1	37
0.375" x 96" x 480"	1	2,222	M77534	FA35804501	T	349.6	517.9	27									1.753	216	1.050	208	34	2	1	10	0	0	2	1	35
0.375" x 96" x 480"	1	2,222	M77534	FA35804502	T	349.6	517.9	27									1.750	224	1.037	214	35	2	1	10	0	0	2	1	37
0.375" x 96" x 480"	1	2,222	M77534	FA35804503	T	349.6	517.9	27									1.753	216	1.050	208	34	2	1	10	0	0	1	1	35
0.375" x 96" x 480"	1	2,222	M77534	FA35804701	T	349.6	517.9	27									1.750	224	1.037	214	35	2	1	10	0	0	2	1	37
0.375" x 96" x 480"	1	2,222	M77534	FA35804702	T	349.6	517.9	27									1.753	216	1.050	208	34	2	1	10	0	0	1	1	35

Position - Top, Middle, Bottom
 Tensile test - Direction: Transverse, Gauge length: 200mm (Rectangular), YP method: 0.2% off-set
 Division - C: Check analysis, U: Ladle analysis

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

Signature
 SUPERVISOR TO: CHIEF OF QUALITY ASSURANCE TEAM
 S. B. Park

* 본 검사증명서는 원본의 전자문서(전자서명 정보 포함)로만 유효합니다.
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www.hyundai-steel.com/cs/cm/lopin.jsp
 v/cs/cm/lopin.jsp

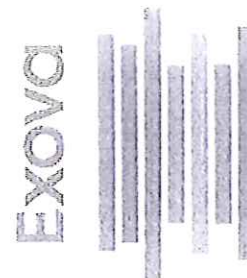
0790003463

Exova
1440 Graham's Lane, Unit 10
Burlington
Ontario
Canada
L7R 1W3

T: +1 (800) 631-7785
F: +1 (905) 631-7785
E: sales@exova.com
W: www.exova.com

844/13

2012



Test Certificate

Janco Steel Limited
925 Arvin Avenue
Stoney Creek
Ontario
Canada
L8E 5N9
Attn: C. Elder

REF No
Page
Ord No
Date Tested
Date Reported

B 308693 : Issue 1
1 of 1
NA Wk 07/22/13
07/29/13
07/29/13

Item - Tag#: 328539 Heat#: 115419 Test#: 14098/14099
Description: HR sheet 237x60.56-53060#
CSA G40.21(04)50W(350W)

Specification - CSA G40.21(04)38W(260W)/CSA G40.21(04)44W(300W)

Tensile Test - ASTM A 370-12a								
	Dimensions [in]	Area [in ²]	GL [in]	0.20%YS [psi]	UTS [psi]	%EL	%RA	Comments
001: Transverse	0.2460x 0.5080	0.1250	2.00	62600	70800	30	N/A	Lead
002: Transverse	0.2440x 0.5100	0.1244	2.00	59800	68500	30	N/A	Center

Certificate Comments

Sample(s) tested meet the requirements of CSA G40.21-14
grade 38W (260W) 44W (300W) 50W (350W)
and ASTM A370-12 with respect to the tests conducted above.

Tested by Exova Burlington Laboratory

Steve Frederiksen
Mechanical Technician
Signed for and on behalf of
Exova Burlington Laboratory

ArcelorMittal Dofasco Inc.
P.O. Box 2460
Familton, Ontario
L8N 3J5

TEST REPORT
RAPPORT D'ESSAI

Attention: Ann-Marie Vandenoever
Email: avandenoever@dofasco.com
Date: 07/03/2013

Page 1 of 1

Purchase Order/Don de Commande
012256-1 JUL
Bill of Lading/Connaissement
550443
Sold To/Vendu A
JANCO STEEL LTD.
925 ARVIN AVE.
STONE CREEK, ON.
L8E 5N9

Customer/Client
77511
Sales Order/Don de Commande
PO 215591003
Packing Slip/Document de Charge
Vehicle or Carrier/Vehicule de Transporteur
JANCO STEEL/RAC
Ship To/Expédier A
JANCO STEEL
925 ARVIN AVE.
STONE CREEK, ON.
L8E 5N9

Spec/Norm et Spec.
FOR CONVERSION TO CSA 440 .1 GAUGE .07
STANDARD THICKNESS TOLERANCE
TEST REPORTS REQUIRED
CODE NSC CID84995-13

Material Description/Description de Matériau
PLATE IN COIL FOR CONVERSION
STRUCTURAL STEEL
JULCO
MILL EDGE
PLAIN DAY

.2370 MIN .2400 X 60 X COIL
Weight - 23060 LBS
Test Methods
ASTM A370, E1019, E415

MECHANICAL PROPERTIES

HEAT	SERIAL NUMBER	TEST UNIT: ksi	GAGE LENGTH 2 INCH
COULEE	NOMBRE DE SERIE	YIELD STRENGTH	ULTIMATE STRENGTH SELONG
		RESISTANCE A LA	RESISTANCE A LA ALLONG
		ELASTICITE	TRACTION
115419	294622/00	63	31.9

HEAT
COULEE C Nb P S Mn Cu Ni Tr Sn V Al Si Al* Co V Ti Ca N O
115419 .07 .01 .016 .003 .04 .02 .04 .02 0.03 10 .15 .021 .021 .012 .002 .013 .012 .0074 .0002

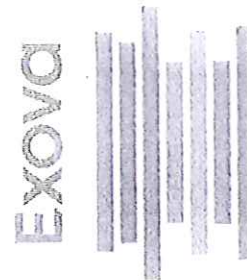
ArcelorMittal Dofasco Inc. as per Diane Skupny-MacBride - CMTL Supervisor
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Exova
1440 Graham's Lane, Unit 19
Burlington
Ontario
Canada
L7S 1W3

T: +1 (905) 631-7785
F: +1 (905) 631-7785
E: sales@exova.com
W: www.exova.com

829/13
10F2



Test Certificate

Janco Steel Limited
925 Arvin Avenue
Stoney Creek
Ontario
Canada
L8E 5N9
Attn: C. Elder

REF No
Page
Ord No
Date Tested
Date Reported

B 308461 Issue 1
1 of 1
NA Wk 07/15/13
07/22/13
07/22/13

Item - Tag#: 328405 Heat#: 114581 Test#: 14017/14018
Description: HR sheet .237x60.50-52790#
CSA G40.21(04)38W

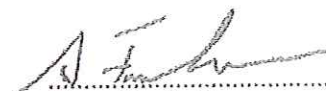
Specification - ASTM A36(12)/CSA G40.21(04)44W/CSA G40.21(04)50W/

Tensile Test - ASTM A 370-12a								
	Dimensions [in]	Area [in ²]	GL [in]	0.20%YS [psi]	UTS [psi]	%EL	%RA	Comments
001: Transverse	0.2430x 0.5030	0.1222	2.00	65600	73900	30	N/A	Lead
002: Transverse	0.2440x 0.5030	0.1227	2.00	59200	68500	34	N/A	Center

Certificate Comments

Sample(s) tested meet the requirements of CSA G40.21-04
Grade 38W/44W/50W and ASTM A36-12
with respect to the tests conducted above.

Tested by Exova Burlington Laboratory


Steve Frederiksen
Mechanical Technician
Signed for and on behalf of
Exova Burlington Laboratory

ArcelorMittal Dofasco Inc.
P.O. Box 2460
Hamilton, Ontario
L8N 3J5

TEST REPORT
RAPPORT D'ESSAI

Attention: Ann-Marie Vandenoever
Email: avandenoever@jancosteel.com
Date: 07/07/2013

Page 1 of 1

Purchase Order/Bon de Commande
012266-1 JUL
Bill of Lading/Connaissance
637257
Sold To/Vendu A
JANCO STEEL LTD.
925 ARVIN AVE.
STONEY CREEK, ON.
L9E 5N9

Customer/Client Sales Order/Bon de Commande
373510 FCS 215861005
Packing Slip/Bordereau de Charge Vehicle or Carrier/Vehicule ou Transporteur
JANCO STEEL/2AC
Ship To/Expéditeur A
JANCO STEEL
925 ARVIN AVE.
STONEY CREEK, ON.
L9E 5N9

Spec/Norm et Spec.
FOR CONVERSION TO CSA G40.21 GRADE 50W
STANDARD THICKNESS TOLERANCE
TEST REPORTS REQUIRED
CODE NSC Q1044984-1R

Material Description/Description du Matériau
PLATE-IN-COIL FOR CONVERSION
STRUCTURAL STEEL
COILS
MILL EDGE PLAIN GRN

.2370 MIN .2490 X 60 X COIL
Weight - 52790 LBS
Test Methods
ASIM A370, E1019, E415

MECHANICAL PROPERTIES

HEAT	SERIAL NUMBER	TEST UNITS KSI	GAUGE LENGTH 2 INCH		
COULEE	NOMBRE DE SERIE	YIELD STRENGTH	ULTIMATE STRENGTH		
		RESISTANCE A LA	RESISTANCE A LA		
		D'ELASTICITE	TRACTION		
114531	014423/00	5488007	69	76	27.3

HEAT	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	Al	Co	V	Ti	Ca	N	H	O
114581	.07	.53	.008	.003	.03	.15	.06	.08	.001	.01	.026	.027	.042	.003	.012	.002	.0056	.0002

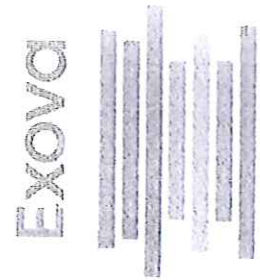
ArcelorMittal Dofasco Inc. as per Diane Skippy-McBride - CMPL Supervisor
The Results Relate Only To The Items Tested
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Exova
1440 Grafton's Lane, Unit #9
Burlington
Ontario
Canada
L7S 1W3

Tel: (905) 631-7785
Fax: (905) 631-7786
E: sales@exova.com
W: www.exova.com

827/13
20F2



Test Certificate

Janco Steel Limited
925 Arvin Avenue
Stoney Creek
Ontario
Canada
L8E 5N9
Attn: C. Elder

REF No
Page
Ord No
Date Tested
Date Reported

B 308459 : Issue 1
1 of 1
NA Wk 07/15/13
07/22/13
07/22/13

Item - Tag#: 327586 Heat# 111342 Test#: 14023/14024
Description: HR plate 485x58 44-56210#
CSA G40.21(04)50W

Specification - ASTM A36(12)/CSA G40.21(04)38W/CSA G40 21(04)44W/

Tensile Test - ASTM A 370-12a								
	Dimensions [in]	Area [in ²]	GL [in]	0.20%YS [psi]	UTS [psi]	%EL	%RA	Comments
001: Transverse	0.4930x 0.5020	0.2475	2.00	62600	73500	35	N/A	Lead
002: Transverse	0.4910x 0.5040	0.2475	2.00	56500	66200	36	N/A	Center

Certificate Comments

Sample(s) tested meet the requirements of CSA G40.21-(4)
Grade 38W/44W/50W and ASTM A36-12
with respect to the tests conducted above.

Tested by Exova Burlington Laboratory


Steve Frederiksen
Mechanical Technician
Signed for and on behalf of
Exova Burlington Laboratory

827713

10/2

ArcelorMittal Dofasco Inc.
P.O. Box 2460
Hamilton, Ontario
L8N 3G5

TEST REPORT
RAPPORT D'ESSAI

Attention: Ann-Marie Vandenoever
Email: avandenoever@jagadesteel.com
Date: 03/03/2013

Page 1 of 1

Purchase Order/Don de Commande
012150-3 JUN
Bill of Lading/Connaissement
040809

Customer/Client
373510

Sales Order/Don de Commande
PCS 316942005

Vendeur/Vendeur:

Sold To/Venda A
JANCO STEEL LTD.
925 ARVIN AVE.
STONEY CREEK, ON.
L8E 5N9

Packing Slip/Bordereau de Charge

Vehicle or Carrier/Vehicule ou Transporteur
JANCO STEEL/RAC

Ship To/Expédier A
JANCO STEEL
925 ARVIN AVE.
STONEY CREEK, ON.
L8E 5N9

Spec/Note et Spec.

FOR CONVERSION TO CSA G40.21 GRADE 50W
STANDARD THICKNESS TOLERANCE
TEST REPORTS REQUIRED
CODE MSC Q10J4989-16

Material Description/Description du Matériau

PLATE-IN-COIL FOR CONVERSION

STRUCTURAL STEEL

COILS

MILL EDGE

PLAIN GRV

.4850 MIN .5000 X 56 X COIL

Weight - 56210 LBS

Test Methods

ASTM A370, B1019, E4 5

MECHANICAL PROPERTIES

HEAT SERIAL NUMBER
COULES NOMBRE DE SERIE

TEST UNITS KSI GAGE LENGTH 2 INCH
TFT NUMBER YIELD STRENGTH ULTIMATE STRENGTH 2ELONG
NOMBRE DE RESISTANCE A LA RESISTANCE A LA ALLONG
CARDEAU D'ELASTICITE TRACTION
5451677 65 70 27



5000

HEAT	C	Mn	P	S	Si	CU	NI	Cr	Mo	Al	Al2	Co	V	Ti	Ca	N	B	C
111342	.06	.42	.01	.005	.05	.10	.15	.08	.010	.028	.025	.045	.002	.014	.002	.005	.0001	

ArcelorMittal Dofasco Inc. as per Glenn Skupny-MacBride - CMPL Supervisor

The Results Relate Only To The Items Tested

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1440 Grantham's Lane, Unit 89
Burlington
Ontario
Canada
L7S 1W3

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F: +1 (905) 631-7756
E: sales@exova.com
W: www.exova.com

1060/13



Test Certificate

Janco Steel Limited
925 Arvin Avenue
Stoney Creek
Ontario
Canada
L8E 5N9
Attn: C. Elder

REF No
Page
Ord No
Date Tested
Date Reported

B 310673 : Issue 1
1 of 1
NA Wk 09/16/13
09/20/13
09/20/13

Item - Tag#: 329804 Heat#: 242637 Test#: 14842/14843
Description: HR sheet 237x60.50-58030#
CSA G40.21(04)50W(350W)
Specification - CSA G40.21(04)38W(260W)/CSA G40.21(04)44W(300W)/

Tensile Test - ASTM A 370-12a								
	Dimensions [in]	Area [in ²]	GL [in]	0.20%YS [psi]	UTS [psi]	EL %	RA %	Comments
001: Transverse	0.2420x 0.5020	0.1215	2.00	72400	79400	30	N/A	See Below
002: Transverse	0.2430x 0.5020	0.1220	2.00	70700	76900	26	N/A	See Below
Item 01: Lead Yield Strength = 499 MPa Tensile Strength = 547 MPa								
Item 02: Center Yield Strength = 487 MPa Tensile Strength = 530 MPa								

Certificate Comments

Sample(s) tested meet the requirements of CSA G40.21(04) 38W (260W), 44W (300W), and 50W (350W) with respect to the tests conducted above.

Tested by Exova Burlington Laboratory

Mohinder Singh
Department Manager
Signed for and on behalf of
Exova Burlington Laboratory

1060/13

ArceclorMittal Dofasco Inc.
1000 St. Mary
Bellefleur, Ontario
L0B 1A0

TEST REPORT
ARCECLOR MITTAL DOFASCO

ArceclorMittal Dofasco Inc.
1000 St. Mary
Bellefleur, Ontario
L0B 1A0

ArceclorMittal Dofasco Inc.
1000 St. Mary

ArceclorMittal Dofasco Inc.
1000 St. Mary

ArceclorMittal Dofasco Inc.
1000 St. Mary

ArceclorMittal Dofasco Inc.
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ArceclorMittal Dofasco Inc.
1000 St. Mary

ArceclorMittal Dofasco Inc.
1000 St. Mary
1000 St. Mary
1000 St. Mary
1000 St. Mary



Handwritten signature or initials.

ArceclorMittal Dofasco Inc.
1000 St. Mary
1000 St. Mary
1000 St. Mary
1000 St. Mary

ArceclorMittal Dofasco Inc.
1000 St. Mary
1000 St. Mary
1000 St. Mary
1000 St. Mary

ArceclorMittal Dofasco Inc.
1000 St. Mary
1000 St. Mary
1000 St. Mary
1000 St. Mary

Exova
1440 Graham's Lane, Unit 45
Burlington
Ontario
Canada
L7R 1W3

T: +1 (905) 631-7785
F: +1 (905) 631-7786
E: sales@exova.com
W: www.exova.com

EXOVA



Test Certificate

Janco Steel Limited
925 Arvin Avenue
Stoney Creek
Ontario
Canada
L8E 5N9
Attn: C. Elder

REF No
Page
Ord No
Date Tested
Date Reported

B 308693 : Issue 1
1 of 1
NA Wk 07/22/13
07/29/13
07/29/13

Item - Tag#: 328539 Heat#: **115419** Test#: 14098/14099
Description: HR sheet 237x60.56-53060#
CSA G40.21(04)50W(350W)

Specification - CSA G40.21(04)38W(260W)/CSA G40.21(04)44W(300W)/

Tensile Test - ASTM A 370-12a

	Dimensions (in)	Area (in ²)	GL (in)	0.20%YS (psi)	UTS (psi)	%E1	%RA	Comments
001: Transverse	0.2460x 0.5080	0.1250	2.00	62600	70800	30	N/A	Lead
002: Transverse	0.2440x 0.5100	0.1244	2.00	59800	68500	30	N/A	Center

Certificate Comments

Sample(s) tested meet the requirements of CSA G40.21-14
grade 38W (260W) 44W (300W) 50W (350W)
and ASTM A36-12 with respect to the tests conducted above.

Tested by Exova Burlington Laboratory


Steve Frederiksen
Mechanical Technician
Signed for and on behalf of
Exova Burlington Laboratory

ArcelorMittal Dofasco Inc.
P.O. Box 2460
Hamilton, Ontario
L8N 3J5

TEST REPORT
RAPPORT D'ESSAI

Attention: Ann-Marie Vandenoever
Email: avandenoever@dofasco.com
Date: 07/03/2013

Page 1 of 1

Purchase Order/Don de Commande
012266-1 CUL

Bill of Lading/Connaissement
658443

Sold To/Vendu A
JARCO STEEL LTD.
925 ARVIN AVE.
STONEY CREEK, ON.
L8E 5N5

Customer/Client
JARCO

Product ship/Remarque de Charge

Ship To/Expéditeur A
JARCO STEEL
925 ARVIN AVE.
STONEY CREEK, ON.
L8E 5N5

Sales Order/Don de Commande
600 315891075

Vehicle or Carrier/Vehicule de Transport
JARCO STEEL/RAC

Spec/Note et spec.

FOR CONVERSION TO CSA G40.21 GRADE 50W
STANDARD THICKNESS TOLERANCE
TEST REPORTS REQUIRED
CODE NSC QID#4999-13

Material Description/Description du Matériau

PLAIN COIL FOR CONVERSION
STRUCTURAL STEEL
COILS
MILL EDGE

PLAIN END

.2370 MIN .2430 X 60 X COIL

Weight - 33060 LBS

Test Methods

ASTM A370, E1919, E415

MECHANICAL PROPERTIES

HEAT	SERIAL NUMBER	TEST UNITS KSI	GUAGE LENGTH 2 INCH
COULEE	NOMBRE DE SERIE	YIELD STRENGTH	ULTIMATE STRENGTH SELONG
		RESISTANCE A LA	RESISTANCE A LA ALLONG
		ELASTICITE	TRACTION
115419	P94422/03	5439419	31.9

HEAT	C	Mn	P	S	Si	Co	Mo	Cr	Ni	Al	As	Se	V	Ti	Ca	N	B	O
115419	.07	.62	.006	.003	.04	.12	.04	.36	.008	.11	.002	.003	.002	.013	.002	.0078	.002	

ArcelorMittal Dofasco Inc. as per Diane Skupny-MacBride - CHL Supervisor

The Results Relate Only To The Items Tested

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Exova
1640 Gribbom's Lane Unit 19
Burlington
Ontario
Canada
L7S 1W3

T: +1 (905) 631-7785
F: +1 (905) 631-7785
E: sales@exova.com
W: www.exova.com

800/13
522

Exova



Test Certificate

Janco Steel Limited
925 Arvin Avenue
Stoney Creek
Ontario
Canada
L8E 5N9
Attn: C. Elder

REF No
Page
Ord No
Date Tested
Date Reported

B 308461 . Issue 1
1 of 1
NA Wk 07/15/13
07/22/13
07/22/13

Item - Tag#: 328405 Heat# 114581 Test#: 14017/14018
Description: HR sheet 237x60.50-52790#
CSA G40.21(04)38W

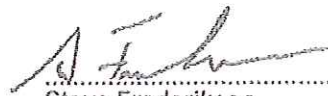
Specification - ASTM A36(12)/CSA G40.21(04)44W/CSA G40.21(04)50W/

Tensile Test - ASTM A 370-12a								
	Dimensions [in]	Area [in ²]	GL [in]	0.20%YS [psi]	UTS [psi]	%E1	%RA	Comments
001: Transverse	0.2430x 0.5030	0.1222	2.00	65600	73900	30	N/A	Lead
002: Transverse	0.2440x 0.5030	0.1227	2.00	59200	68500	34	N/A	Center

Certificate Comments

Sample(s) tested meet the requirements of CSA G40.21-04
Grade 38W/44W/50W and ASTM A36-12
with respect to the tests conducted above.

Tested by Exova Burlington Laboratory


Steve Frederiksen
Mechanical Technician
Signed for and on behalf of
Exova Burlington Laboratory

ArcelorMittal Dofasco Inc.
P.O. Box 2460
Hamilton, Ontario
L8N 5J5

TEST REPORT
RAPPORT D'ESSAI

Attention: Ann-Marie Vandenoever
Email: avandenoever@jancosteel.com
Date: 01/07/2013

Page 1 of 1

Purchase Order/Bon de Commande
012266-1 JUL
Bill of Lading/Connaissance
657257

Customer/Client
373512

Salco Order/Bon de Commande
708 315881085

Vendeur/Vendeur

Sold To/Vendu A
JANCO STEEL LTD.
925 ARVIN AVE.
STONE CREEK, ON.
L9E 5N9

Ship To/Expédier A
JANCO STEEL
925 ARVIN AVE.
STONE CREEK, ON.
L9E 5N9

Vehicle or Carrier/Vehicule ou Transporteur
JANCO STEEL/RAC

Spec/Nom et Spec.
FOR CONVERSION TO CSA G40.21 GRADE 50W
STANDARD THICKNESS TOLERANCE
TEST REPORTS REQUIRED
CODE NSC Q104989-18

Material Description/Description du Matériau
PLATE-IN-COIL FOR CONVERSION
STRUCTURAL STEEL
COILS
MILL EDGE

PLAIN DRY

.2370 MIN .2490 X 60 X COIL
Weight - 52790 LBS
Test Methods
ASTM A370, E1019, E2415

MECHANICAL PROPERTIES

HEAT	SERIAL NUMBER	TEST UNITS KSI	GAUGE LENGTH 2 INCH
COULEE	NOMBRE DE SERIE	YIELD STRENGTH	ULTIMATE STRENGTH 1/2 LONG
		RESISTANCE A LA	RESISTANCE A LA ALLONG
		D'ELASTICITE	TRACTION
114581	994423/00	69	27.3

HEAT	C	Mn	P	S	Si	Co	Ni	Cr	Sa	Mo	Als	Al1	Cu	V	Ti	Ca	N	B	O
114581	.07	.53	.008	.003	.03	.15	.06	.08	.007	.017	.026	.027	.042	.003	.013	.002	.0056	.0002	

ArcelorMittal Dofasco Inc. as per Diane Skupay-MacBride - CMTL Supervisor

The Results Relate Only To The Items Tested

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Exova
1440 Graham's Lane, Unit 8V
Burlington
Ontario
Canada
L7S 1W3

T: +1 (905) 631-7785
F: +1 (905) 631-7786
E: sales@exova.com
W: www.exova.com

9/4/13

2013

EXOVA



Test Certificate

Janco Steel Limited
925 Arvin Avenue
Stoney Creek
Ontario
Canada
L8E 5N9
Attn: C. Elder

REF No
Page
Ord No
Date Tested
Date Reported

B 308693 : Issue 1
1 of 1
NA Wk 07/22/13
07/29/13
07/29/13

Item - Tag#: 328539 Heat#: 115419 Test#: 14098/14099
Description: HR sheet .237x60.56-53060#
CSA G40.21(04)50W(350W)
Specification - CSA G40.21(04)38W(260W)/CSA G40.21(04)44W(300W)

Tensile Test - ASTM A 370-12a								
	Dimensions [in]	Area [in ²]	GL [in]	0.20%YS [psi]	UTS [psi]	%E1	%RA	Comments
001: Transverse	0.2460x 0.5080	0.1250	2.00	62600	70800	30	N/A	Lead
002: Transverse	0.2440x 0.5100	0.1244	2.00	59800	68500	30	N/A	Center

Certificate Comments

Sample(s) tested meet the requirements of CSA G40.21-04
grade 38W (260W) 44W (300W) 50W (350W)
and ASTM A36-12 with respect to the tests conducted above.

Tested by Exova Burlington Laboratory

Steve Frederiksen
Mechanical Technician
Signed for and on behalf of
Exova Burlington Laboratory

ArcelorMittal Dofasco Inc.
P.O. Box 2460
Hamilton, Ontario
L8N 3J5

TEST REPORT
RAPPORT D'ESSAI

Attention: Ann-Marie Vandenoever
Email: avandenoever@dofasco.com
Date: 07/03/2013

Page 1 of 1

Purchase Order/Bon de Commande
012266-1 JUL
Bill of Lading/Connaissance
658443
Sold To/Vendu A
JANCO STEEL LTD.
925 ARVIN AVE.
STONEY CREEK, ON.
L8E 3N5

Customer/Client
773513
Sales Order/Bon de Commande
PO 21565025
Vendor/Vendeur
JANCO STEEL/RAC
Packing Slip/Document de Charge
Vehicle or Carrier/Vehicule de Transport
JANCO STEEL/RAC
Ship To/Expédier A
JANCO STEEL
925 ARVIN AVE.
STONEY CREEK, ON.
L8E 3N5

Spec/Born et Spec.
FOR CONVERSION TO CSA G40.21 GRADE 50X
STANDARD THICKNESS TOLERANCE
TEST REPORTS REQUIRED
CODE NSC Q1084589-18

Material Description/Description du Matériau
PLATE-TH-COIL FOR CONVERSION
STRUCTURAL STEEL
COILS
MILL EDGE
PLAIN GRN

.2370 MIN .2430 X 60 X COIL
Weight - 53060 LBS
Test Methods
ASTM A370, E1916, E415

MECHANICAL PROPERTIES

HEAT	SERIAL NUMBER	TEST UNIT KSI	GAUGE LENGTH 2 INCH
COULEE	NOMBRE DE SERIE	LIFT NUMBER	YIELD STRENGTH
			ULTIMATE STRENGTH %ELONG
			RESISTANCE A LA
			RESISTANCE A LA ALLONG
			D'ELASTICITE
			TRACTION
115419	94422/00	5499419	63
			72
			31.9

HEAT	C	Mn	P	S	Si	Cu	Al	Cr	Ni	Mo	Nb	As	Ant	Co	V	Ti	Ca	N	R	O
115419	.07	.61	.006	.003	.04	.12	.04	.06	.009	.010	.031	.033	.042	.002	.015	.002	.0076	.0092		

ArcelorMittal Dofasco Inc. as per Diane Skupny-MacBride - CHML Supervisor
The Results Relate Only To The Items Tested
This Report Shall Not Be Reproduced Except In Full Without The Expressed Written Approval of The CHML Supervisor.

This Contract Is Subject To The Terms And Conditions Of Sale Shown On The Order Acknowledgement.
Ce Contrat est Sujet aux Termes et Conditions de Vente Indiqués Sur L'Accuse de Réception de Commande.



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No./Item & Date: 8014105 009021 2013/09/30		Shipment No. & Date: 1000064212 2013/09/31		TC No., Date & Time: ESA-06699 2013/09/03 - 15:30:34	
Sold to Customer Name and Address: SAMUEL SON AND COMPANY LTD 15TH AVENUE 701 NISKU Alberta Canada T2C 2A1		Ship to Customer Name and Address: SAMUEL SON AND COMPANY LTD CALGARY, Alberta, Canada		Customer PO No./Item: A26379172 BOL NO.: 1600064212 Cust./Part No.: C P RAIL (LOAD FUNDS) - cp 346825	
Customer Specification: HR STEEL SHEET Carbon CQ / CS ASTM A1011 CS TY B (12S) Top Semi Critical Surface Improved Shape Resist Thickness 3/4 Tol Coil break considered					
Supplementary Instructions: Test Cert 1 sepp@samuel.com					
Insp T/R: Chemical Analysis					
ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS WILL BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (709) 945-1095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.					
MEETS EN 10004 3.1					
ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM					
ALL HEATS FULLY KILLED. HEATS INDICATED WITH (P) FINE GRAINED HEATS INDICATED WITH (N) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS					
Dimensions (L x W x L) 0.0970" x 60.000"					
Batch No. LOC0117		Heat No./MS 032473-04		Quantity 32 940 LB	
Heat No. (wt%)					
C	0.09	Mn	0.38	P	0.015
S	0.004	Si	0.020	Cr	0.03
Ni	0.02	Cu	0.07	Mg	0.00
Al	0.028	Nb	0.000	V	0.000
Ti	0.001	N	0.0035		

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREON WILL BE USED TO QUALIFY THE STEEL FOR ANY SPECIFIC THICKNESS THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE. (INCLUDE DESIGN OR CALCULATION) AS PRESENTING THE ACTUAL THICKNESS OF SHEET.

MANAGER METALLURGICAL SERVICES
K. USHADPAGA



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

STEEL

SO No./Lot & Date: 8006866 000020 2013/01/18 Shipment No. & Date: 60000873 2013/01/18 TC No. Date & Time: ESA-42477 2013/01/18 - 11:02:30

Sold to Customer Name and Address: JANCO STEEL LIMITED Ship to Customer Name and Address: JANCO STEEL LIMITED Customer PO No./Item: 01191972

ARVIN AVENUE 925 ARVIN AVENUE 925 BOL NO.: 1300155609

STONE CREEK, Ontario, Canada STONEY CREEK, Ontario, Canada CUST Part No.: TRANSCARE LOGISTIC CORP. - OWN

L8E 5N9 L8E 5N9 Carrier:

Customer Specification: HR STEEL SHEET Carbon CQ / CS ASTM A1011 CS TY B (12B) MOD C .05 MIN Top Semi Critical Surface Improved Shape Rest Thickness 1/2 Tol Coil break considered

Supplementary Instructions: Test Cert 1305-643-5164

Insip TIR: Chemical Analysis

ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705) 945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.

MEETS EN 10204 3.1

ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM

HEATS INDICATED WITH (1) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS

Dimensions (T x W x L) Batch No. Heat No. MS Quantity Pcs

0.0980" x 80.000" TAE8060 3243P3-02 49,450 LB 1

Chemical Properties

C Mn P S SI CR NI CU Mo AL Nb V S TI N

0.06 0.39 0.006 0.006 0.020 0.02 0.01 0.03 0.00 0.028 0.000 0.000 0.0000 0.001 0.0034

3243P3

2229

K. UGHADPAGA
MANAGER METALLURGICAL SERVICES



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No., Item & Date: 8014105 000021 2013/09/30		Shipment No. & Date: 1000064212 2013/08/31		TC No., Date & Time: ESA-96688 2013/09/03 - 15:30:34	
Sold to Customer Name and Address: SAMUEL SON AND COMPANY LTD 15TH AVENUE 701 NISKU, Alberta, Canada T2C 2A1		Ship to Customer Name and Address: SAMUEL SON AND COMPANY LTD CALGARY, Alberta, Canada		Customer PO NO./Item: AZ637912 1000064212	
Customer Specification: HR STEEL SHEET Carbon CQ / CS ASTM A1011 CS TY B (128) Top Semi Critical Surface Improved Shape Resist Thickness 3/4 Tol Coil break considered		BOL NO: Cust Part No.: Carrier:		C P RAIL (CAD FUNDS) - cp 346225	
Supplementary Instructions: Test Cert 1 sepp@samuel.com					
Imp T/R: Chemical Analysis					
ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS WILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (709) 945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.					
MEETS EN 10204 3.1					
ISO QUALITY AND ENVIRONMENTAL CERTIFICATE IS AVAILABLE AT WWW.ESSARSTEELALGOMA.COM					
ALL TESTS FULLY FILLED					
TESTS INDICATED WITH (*) FINE GRAINED					
TESTS INDICATED WITH (**) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS					
Dimensions IT x W x L1					
0.0970" x 60.000"		Batch No. L000117		Heat No. MS 032413-04	
				Quantity 32.940 LB	
				Pcs 1	
Heat No. (Wt%)					
C	0.09	Mn	0.38	P	0.015
		S	0.004	Si	0.020
		Cr	0.03	Mo	0.02
		Ni	0.02	Al	0.023
		Nb	0.000	V	0.000
		Ti	0.001	N	0.0035
CHEMICAL PROPERTIES					
032413					

"WARNING" THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT THE PLATE/COIL OF STEEL FOR WHICH THE CERTIFICATE IS ISSUED SHOULD MEET THE MINIMUM SPECIFIED MECHANICAL AND PHYSICAL PROPERTIES OF SUCH STEEL AND IN NO CIRCUMSTANCES SHALL THE REQUIREMENTS OF THE SPECIFICATION BE EXCEEDED. THE RESULTS OF VALUES REPORTED HEREIN SHALL NOT BE USED TO DETERMINE THE ACTUAL STRENGTH OF SUCH STEEL.

MANAGER METALLURGICAL SERVICES

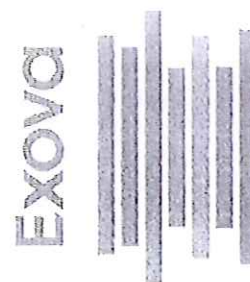
K. UGHADPAGA

Exova
1440 Graham's Lane, Unit 19
Burlington
Ontario
Canada
L7S 1W3

T: +1 (905) 631-7785
F: +1 (905) 631-7786
E: sales@exova.com
W: www.exova.com

1167/13

1052



Test Certificate

Janco Steel Limited
925 Arvin Avenue
Stoney Creek
Ontario
Canada
L8E 5N9
Attn: C. Elder

REF No B 311429 : Issue 1
Page 1 of 1
Ord No NA Wk 10/07/13
Date Tested 10/15/13
Date Reported 10/15/13

Item - Tag#: 328365 Heat# 115419 Test#: 15236/15237
Description: HR sheet 485x80.25-52670#

Specification - ASTM A36(12)/CSA G40.21(04)44W/CSA G40.21(04)50W

Tensile Test - ASTM A 370-12a								
	Dimensions [in]	Area [in ²]	GL [in]	0.20%YS [psi]	UTS [psi]	%E1	%RA	Comments
001: Transverse	0.4940x 0.5050	0.2495	2.00	61000	70100	35	N/A	Lead
002: Transverse	0.4920x 0.5030	0.2475	2.00	58300	67700	34	N/A	Centre

Certificate Comments

Sample(s) tested meet the requirements of CSA G40.21-04 Grade 44W 50W and ASTM A36-12 with respect to the tests conducted above.

Tested by Exova Burlington Laboratory

Steve Frederiksen
Mechanical Technician
Signed for and on behalf of
Exova Burlington Laboratory

2 of 2

[illegible]



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4



SO No./Item & Date: 8008843 000050 2013/03/14	Shipment No. & Date: 1000036424 2013/03/19	TC No., Date & Time: ESA-57935 2013/03/19 - 20:31:11
Sold to Customer Name and Address: ALBERTA INDUSTRIAL METALS, 78TH STREET 4821 RED DEER, Alberta, Canada	Ship to Customer Name and Address: ALBERTA INDUSTRIAL METALS, 78TH STREET 4821 RED DEER, Alberta, Canada	Customer PO No./Item: M63019937 / S BOL NO.: 1000036424 Cust. Part No.: 14666 Carrier: C P RAIL (CAD FUNDS) - CP 346893
Customer Specification: HR STEEL SHEET Carbon CQ / CS ASTM A1011 CS TY B (12B) Mark Number 14666 Top Semi Critical Surface Improved Shape Rest Thickness 1/2 Tol Coil break considered		

Supplementary Instructions: Test Cert 1:aperry@russelmets.com

Imp TIR: Chemical Analysis

Cust Use: GENERAL MANUFACTURING

ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705) 945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.

MEETS EN 10204 3.1

ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM

HEATS INDICATED WITH (*) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.

Dimensions (T x W x L)	Batch No.	Heat No-MS	Quantity	No. of Pcs	Dimensions (T x W x L)	Batch No.	Heat No-MS	Quantity	No. of Pcs					
0.0690 " x 48.000 "	TAG3774	5221P3-56	37.740 LB	1	0.0690 " x 48.000 "	TAG3832	5228P3-52	36.590 LB	1					
0.0690 " x 48.000 "	TAG3833	5228P3-02	35.300 LB	1										
*****CHEMICAL PROPERTIES*****														
Heat No. (wt%)	C	Mn	P	S	SI	Cr	NI	Cu	Mo	Al	Nb	V	TI	N
5221P3	0.04	0.18	0.006	0.005	0.020	0.02	0.01	0.02	0.00	0.030	0.000	0.000	0.001	0.0039
5228P3	0.05	0.17	0.005	0.009	0.020	0.01	0.01	0.02	0.00	0.028	0.000	0.000	0.001	0.0041

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

MANAGER METALLURGICAL SERVICES

K. UGHADPAGA

ESSAR Steel Algoma Inc.

105 West Street, Sault Ste. Marie, Ontario Canada P6A 7B4

61A045536

CUSTOMER PURCHASE ORDER NUMBER
15751-BS

ENTRY DATE
2012/04/30

CREATE DATE
2012/06/03

INVOICE NUMBER
280463

SHIPPER'S NO.
-

CARRIER
NORL

-380715

CALL ORDER
20209

CHARGE TO CUSTOMER NAME AND ADDRESS:

ALBERTA INDUSTRIAL METALS/
A DIVISION OF RUSSEL METALS INC.
4821 - 78TH STREET
RED DEER, ALBERTA T4P 1N5

SHIP TO CUSTOMER NAME AND ADDRESS:

ALBERTA INDUSTRIAL METALS INC.
A DIVISION OF RUSSEL METALS INC.
7660 49TH AVENUE
CALGARY, ALBERTA T4P 4G6

CUSTOMER SPECIFICATION
HOT ROLLED STEEL SHEET - CARBON - ASTM A1011 TYPE B 2012 - CS - CUT EDGE
ACCEPTABLE - RESTRICTED GAUGE 1/2 TOL. - GEN. MFG. SEMI-CRIT SURFACE IMPROV
SHEP

SUPPLEMENTARY INSTRUCTIONS

TEST CERT 1: BRAD@ABIM.CA TEST CERT 2: PLATE TEST COUPON:

NEW TO CHEMICAL ANALYSIS REPORT REQUIRED

USE RESALE

2000227337 CM
2012/06/05 09:11

K. UGHADPAGA
MANAGER METALLURGICAL SERVICES

THIS MILL TEST REPORT MAY NOT BE
REPRODUCED EXCEPT IN FULL WITHOUT
WRITTEN APPROVAL OF ESSAR STEEL
ALGOMA INC. IF YOU RECEIVE THIS
DOCUMENT AND ARE NOT THE INTENDED
RECEIVER, PLEASE CALL: (705) 945-2626
COLLECT FOR INSTRUCTIONS ON METHOD
OF DISPOSAL OF DOCUMENT.

MILL TEST REPORTS

ESSAR STEEL ALGOMA INC. HEREBY
CERTIFIES THAT THE MATERIAL HEREIN
DESCRIBED WAS MADE AND TESTED IN
ACCORDANCE WITH THE RULES OF THE
SPECIFICATION SHOWN. ALL RESULTS
ARE RETAINED IN ACCORDANCE WITH THE
COMPANY'S STANDARD RECORD KEEPING
PRACTICES.

MEETS EN 10204:2004 TYPE 3.1
ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM
HEATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS

CUSTOMER ITEM 00004 OUR ITEM 005 DIMENSIONS .071 MIN X 48 X COIL

COIL
NUMBER 9559837 HEAT-MS PIECES NO. WEIGHT
6088M-06 1 38860
COIL
NUMBER 9559838 HEAT-MS PIECES NO. WEIGHT
6088M-56 1 39260

HEAT (WT %)
C .05
Mn .16
P .006
S .004
Si .02
CR .03
Ni .02
Cu .05
Mo .00
Al .027
CB .000
V .000
B

THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM
SPECIFIED YIELD STRENGTH AND (2) THE CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF
THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN MAY NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER
THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLD. DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.



STEEL

Date:2013/07/15 Time:09:05:20 Page no:1 of 1

63A013553

Small 0800
1211

1

ALBERTA INDUSTRIAL METALS LTD
7660 49TH AVENUE
CALGARY, ALBERTA
T4P 4G6

CUSTOMER SPECIFICATION
HOT ROLLED STEEL SHEET - CARBON - ASTM A1011 TYPE B (09A) - CS - CUT EDGE
ACCEPTABLE - RESTRICTED GAUGE 1/2 TOL. - GEN. MFG. SEMI-CRIT SURFACE IMPROVD
SHAPE

ES&AR STEEL, ALGOMA, INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES.

MILL TEST REPORTS

TEST CERT 1: BRAD@ABIM.CA TEST CERT 2: PLATE TEST COUPON:

CHEMICAL ANALYSIS REPORT REQUIRED

20000201965 WS
2011/10/31 11:22

K. UGHADPAGA
MANAGER METALLURGICAL SERVICES

THIS FULL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALCOA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705)945-2626 COLLECT FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.

MEETS EN 10204:2004 TYPE 3.1 CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM
ISO QUALITY AND ENVIRONMENTAL
TREATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS
* * * * * P R O D U C T S H I P P E D * * * * *
CUSTOMER ITEM 00001 OUR ITEM 001 DIMENSIONS .127 MIN X 48 X COIL

CUSTOMER ITEM 00001 OUR ITEM 001 DIMENSIONS .127 MIN X 48 X COIL

COIL NUMBER	HEAT-MS PIECES	NO. WEIGHT
84113071	9575L-03	1 39290
84113073	9575L-04	1 39440

COIL NUMBER	HEAT-MS PIECES	NO. WEIGHT
84113072	9575L-53	1 39750

EEZT	(WTF %)	CTI	MM	P	S	SI	CR	NI	CU	MO	AL	CB	V	B
9575L +		04	SN	N	AS	ZR	PE	SB						
		.001	.16	.0034	.008	.01	.03	.02	.04	.01	.033	.000	.000	

16X5H3

THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND 1/2 THE CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE STEEL FOR ANY SPECIFICATION OTHER THAN THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLD. DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

105 West Street, Sault Ste. Marie, Ontario Canada P6A 7B4

64A032263

MAIL ORDER
22805

SHIP TO CUSTOMER NAME AND ADDRESS

ALBERTA INDUSTRIAL METALS,
A DIVISION OF RUSSEL METALS INC.
7660 49TH AVENUE
CALGARY, ALBERTA T4P 4G6

CUSTOMER SPECIFICATION
HOT ROLLED STEEL SHEET - CARBON - ASTM A1011 TYPE B 2012 - CS - CUT EDGE
ACCEPTABLE - RESTRICTED GAUGE 1/2 TOL. - GEN. MFG. SEMI-CRIT SURFACE IMPRVD
SPEZ

MILL TEST REPORTS

ESSAR STEEL, ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES.

K. UGBADPAGA

MANAGER METALLURGICAL SERVICES

SUPPLEMENTARY INSTRUCTIONS

TEST CERT 1: BRADGABIM.CA TEST CERT 2: PLATE TEST COUPON:

CHEMICAL ANALYSIS REPORT REQUIRED

GREEN MFG

2000232560 WS
2012/07/25 20:36

THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL. ALUMINA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705)945-2624+ COLLECT FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.

MEETS EN 10204:2004 TYPE 3.1
ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM
HEATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS

CUSTOMER ITEM 00002 OUR ITEM 001 DIMENSIONS .127 MIN X 48 X COIL

COIL NUMBER	HEAT-MS	NO. PIECES	WEIGHT
62912023	8322M-01	1	38200
62912025	8322M-02	1	38110

COIL NUMBER	HEAT-MS.	NO. PIECES	WEIGHT
62932024	8322M-51	1	38300

[illegible]

THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLU- DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.



FEB 25 2013



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

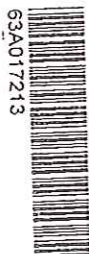


SO No./Item & Date.: 8004576 000070 2012/10/11		Shipment No. & Date.: 1000010409 2012/10/14		TC No., Date & Time : ESA-18113 2012/10/15 - 21:54:32	
Sold to Customer Name and Address : ALBERTA INDUSTRIAL METALS, 78TH STREET 4821 RED DEER, Alberta, Canada T4P 1N5		Ship to Customer Name and Address: ALBERTA INDUSTRIAL METALS, 49TH AVENUE 7660 CALGARY, Alberta, Canada T4P 4G6		Customer PO NO./Item: 16564-BS / 7 BOL NO.: 1000010409 Cust. Part No.: Carrier : C P RAIL (CAD FUNDS) - CP 346905	
Customer Specification : HR STEEL SHEET Carbon SQ / SS To the Chemistry of Multi Cert ASTM A36 (08) / ASME SA36 (11A) / CSA G40.21 44W (04) / CSA G40.21 38W (04) Top Semi Critical Surface Standard Shape Restr Thickness 1/2 Tol					
Supplementary Instructions : Test Cert 1:brad@abim.ca					
Insp T/R : Test Report As Per Spec					
Cust Use : VETTED RESALE					
ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705)945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT. MEETS EN 10204 3.1 ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM					
HEATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.					
Dimensions (T x W x L)		Batch No.	Heat No.-MS	Quantity	No. of Pcs
0.2400 " X 48.000 "		LAC6575	0598P3-53	36,460 LB	1
CHEMICAL PROPERTIES					
Heat No. (wt%)	C	Mn	P	S	Si
0598P3	0.18	0.86	0.015	0.004	0.030
0600P3	0.17	0.87	0.009	0.007	0.010
MECHANICAL PROPERTIES					
Tensile Tests					
Heat No.	Batch No.	SRCE	LAB	GAUGE	COND
0600P3		DSPC	ALG	0.2400	AR
0598P3		DSPC	ALG	0.2400	AR

MANAGER METALLURGICAL SERVICES
K. UGHADPAGA
"WARNING" THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SP. "CAUTION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OF" (CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4



63A017213

SO No./Item & Date: 8012492 000030 2013/07/16	Shipment No. & Date: 1000056900 2013/07/16	TC No., Date & Time: ESSA-87361 2013/07/16 - 13:53:35											
Sold to Customer Name and Address: ALBERTA INDUSTRIAL METALS, 78TH STREET 4821 RED DEER, Alberta, Canada	Ship to Customer Name and Address: ALBERTA INDUSTRIAL METALS, 78TH STREET 4821 RED DEER, Alberta, Canada	Customer PO No./Item: M 63020643 / 3 BOL NO.: 1000056900 Cust. Part No.: 28362 Carrier: C P RAIL (CAD FUNDS) - cp 346986											
Customer Specification: H/R STEEL SHEET HSLA 50 / SS CSA G40.21 44W (04 (R09)) Top Semi Critical Surface Improved Shape Restr Thickness 1/2 Tol													
Supplementary Instructions: Test Cert 1:aperry@russellmetals.com "ALSO MEETS CHEMS OF ASTM A36 (12)/CSA G40.21 38W(04(R09))"													
Insp T/R : Test Report As Per Spec													
ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS WILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (709)945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.													
MEETS EN 10204 3.1 ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEEL.ALGOMA.COM													
ALL HEATS FULLY KILLED. HEATS INDICATED WITH (*) FINE GRAINED. HEATS INDICATED WITH (4) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.													
Dimensions (L x W x L) 0.1740 " x 60.000 "	Batch No. XA4671	Heat No.-MS 9198P3-52	Quantity 37,456 LB	Pcs 1									
Heat No. (wt%) 9198P3*	C 0.18	Mn 0.85	P 0.006	S 0.004	Si 0.020	Cr 0.01	Ni 0.01	Cu 0.01	Mo 0.00	Al 0.028	Nb 0.016	V 0.000	Ti 0.002
*****CHEMICAL PROPERTIES*****													
*****MECHANICAL PROPERTIES*****													
Tensile Tests													
Heat No. 9198P3	Batch No.	SRCE	LAB	GAUGE	COND	METH	DIR	LOC	YIELD(KSI)	TENSILE(KSI)	EL SCALE	ELONG(%)	
		DSPC	ALG	0.1740	AR	2	L	F	58.0	74.0	2"	30	

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE, INCLUDING DESIGN OR CALCULATIONS, AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

MANAGER METALLURGICAL SERVICES

K. UGHADPAGA

D. Angelopoulos

ESSAR Steel Algoma Inc.

105 West Street, Sault Ste. Marie, Ontario Canada P6A 7B4

CUSTOMER PURCHASE ORDER NUMBER
M 79005924

ENTRY DATE
2012/02/23

CREATE DATE
2012/04/02

FALL Y NUMBER
270968

SHIP PER NO.
-

CARRIER
CN

-34257

MILL ORDER
17591

CHANGE TO CUSTOMER NAME AND ADDRESS

A. J. FORSYTH AND COMPANY LIMITED
830 CARLISLE ROAD
ANNACIS INDUSTRIAL ESTATE
NEW WESTMINSTER, B.C. V3M 5P4

SHIP TO CUSTOMER NAME AND ADDRESS

A. J. FORSYTH AND COMPANY LIMITED
C/O INDUSTRIAL AVENUE
PRINCE GEORGE, B.C.

CUSTOMER SPECIFICATION

HOT ROLLED STEEL SHEET - CARBON - TO THE CHEM OF ASTM A36 (08) - STRL 0 - CUT
EDGE ACCEPTABLE - RESTRICTED GAUGE 1/2 TOL - STRUCTURAL SEMI-CRIT SURFACE
IMPRVD SEPE - COIL END TEST ONE/HEAT INFO ONLY

MILL TEST REPORTS

ESSAR STEEL ALGOMA INC. HEREBY
CERTIFIES THAT THE MATERIAL HEREIN
DESCRIBED WAS MADE AND TESTED IN
ACCORDANCE WITH THE RULES OF THE
SPECIFICATION SHOWN. ALL RESULTS
ARE RETAINED IN ACCORDANCE WITH THE
COMPANY'S STANDARD RECORD KEEPING
PRACTICES.

K. UGHADPAGA

MANAGER METALLURGICAL SERVICES

SUPPLEMENTARY INSTRUCTIONS

TEST CERT 1: VANCOUVER. PURCHASING@JFORSYTH.CA TEST CERT 2: P
LATE TEST COUPON:

INSP T/R TEST REPORTS REQUIRED

2000219869 DS

CUST STRL

2012/04/02 19:15

THIS MILL TEST REPORT MAY NOT BE
REPRODUCED EXCEPT IN FULL WITHOUT
WRITTEN APPROVAL OF ESSAR STEEL
ALGOMA INC. IF YOU RECEIVE THIS
DOCUMENT AND ARE NOT THE INTENDED
RECEIVER, PLEASE CALL (705) 945-2626
COLLECT FOR INSTRUCTIONS ON METHOD
OF DISPOSAL OF DOCUMENT.

MEETS EN 10204:2004 TYPE 3.1
ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM
HEATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS

CUSTOMER ITEM 00011 OUR ITEM 006 DIMENSIONS .485 MIN X 48 X COIL

COIL NUMBER	HEAT-MS	PIECES	NO. WEIGHT	COIL NUMBER	HEAT-MS	PIECES	NO. WEIGHT
61013104	4257M-56	1	31647	61215005	4781M-03	1	31900
61215006	4781M-53	1	30431				

TENSILE TESTS:

HEAT	SRCE	GAUGE	COND	METH	DIR	YIELD	TENSILE	% ELONG
4257M	DSPC	.4850	AR	.2	T	48.4	73.3	24(8")
4781M	DSPC	.4850	AR	.2	T	47.4	72.0	26(8")



LAB
ALG
ALG

HEAT	(WT %)	C	SI	CR	NI	CU	MO	AL	CB	V	B
4257M	+	20	75	.015	.009	.02	.04	.03	.01	.031	
4781M	+	19	76	.006	.007	.02	.02	.01	.03	.00	.032

WARNING

THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND 1/2 THE CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION AT



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7E4

SO No./Item & Date:	8013957 000050 2013/08/22	Shipment No. & Date:	1000062840 2013/08/22	TC No., Date & Time:	ESA-96138 2013/08/22 - 21:52:45
Sold to Customer Name and Address:	A.J. FORSYTH AND COMPANY LIMIT CARLISLE ROAD 830 NEW WESTMINSTER, British Columbia, Canada	Ship to Customer Name and Address:	A.J. FORSYTH & COMPANY LIMITED INDUSTRIAL AVENUE PRINCE GEORGE, British Columbia, Canada	Customer PO No./Item:	M79006732 / 5
				BOL NO.:	1000062840
				Cust. Part No.:	CN (CAD FUNDS) - cn 34237
				Carrier:	

Customer Specification: HR STEEL SHEET Carbon SQ / SS to the Chemistry of ASTM A36 (08) Top Semi Critical Surface Improved Shape Restr Thickness 3/4 Tol Coil break considered

Supplementary Instructions: Test Cert 1.vancouver.purchasing@ajforyth.ca

Insp T/R: Test Report For Info Only

ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS WILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705)945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.

MEETS EN 10204 3.1
ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM

ALL HEATS FULLY KILLED.
HEATS INDICATED WITH (*) FINE GRAINED.
HEATS INDICATED WITH (**) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.

Dimensions (T x W x L)	Batch No.	Heat No.-MS	Quantity	No. of Pcs	Dimensions (T x W x L)	Batch No.	Heat No.-MS	Quantity	No. of Pcs				
0.1740 " x 72.000 "	LOB9451	000113-03	32,400 LB	1	0.1740 " x 72.000 "	LOB9453	000113-52	32,430 LB	1				
0.1740 " x 72.000 "	LOB9455	000113-54	32,555 LB	1	0.1740 " x 72.000 "	LOB9450	000113-02	33,170 LB	1				
0.1740 " x 72.000 "	LOB9454	000113-53	33,045 LB	1			-						
*****CHEMICAL PROPERTIES*****													
Heat No. (wt%)	C	Mn	P	S	Si	Cr	Ni	Cu	Mo	Al	Nb	V	Ti
000113*	0.20	0.88	0.009	0.008	0.010	0.02	0.01	0.03	0.00	0.031	0.000	0.000	0.001

*****MECHANICAL PROPERTIES*****													
Tensile Tests	Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	WETH	DIR	LOC	YIELD(KSI)	TENSILE(KSI)	EL SCALE	ELONG(%)
000113			106"	ALG	0.1740	AR	.2	T	F	50.0	76.0	2"	24



0790003436

MANAGER METALLURGICAL SERVICES

K. UGHADPAGA

WARNING: THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No., Item & Date.: 8015053 000070 2013/09/20	Shipment No. & Date.: 1000067484 2013/09/21	TC No., Date & Time : ESA-104715 2013/09/28 - 14:30:37
Sold to Customer Name and Address : A.J. FORSYTH AND COMPANY LIMIT CARLISLE ROAD 830 NEW WESTMINSTER, British Columbia, Canada V3M 5P4	Ship to Customer Name and Address: A.J. FORSYTH & COMPANY LIMITED INDUSTRIAL AVENUE PRINCE GEORGE, British Columbia, Canada V2N 5S1	Customer PO NO./Item: M79006789 / 7 BOL NO.: 1000067484 Cust. Part No.: Carrier : CN (CAD FUNDS) - on 136916 REV

Customer Specification : HR STEEL SHEET Carbon SQ / SS To the Chemistry of ASTM A36 (08) Top Standard Surface Improved Shape Restr Thickness 3/4 Tol Coil break considered

Supplementary Instructions : Test Cert Vancouver.purchasing@ajforyth.ca

Insp T/R : Test Report For Info Only

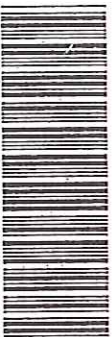
ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES.
THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705)945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.

MEETS EN 10204 3.1

ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM

ALL HEATS FULLY KILLED.
HEATS INDICATED WITH (*) FINE GRAINED.
HEATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.

Dimensions (T x W x L)		Batch No.	Heat No-MS	Quantity	No. of Pcs	Dimensions (T x W x L)		Batch No.	Heat No-MS	Quantity	No. of Pcs		
0.2360 " x 72.000 "		HQC1941	1121T3-02	32,202 LB	1	0.2360 " x 72.000 "		HQC1943	1121T3-51	31,660 LB	1		
*****CHEMICAL PROPERTIES*****													
Heat No. (wt%)	C	Mn	P	S	Si	Cr	Ni	Cu	Mo	Al	Nb	V	Ti
1121T3*	0.20	0.86	0.013	0.010	0.020	0.03	0.02	0.06	0.00	0.026	0.000	0.000	0.001
*****MECHANICAL PROPERTIES*****													
Tensile Tests													
Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	METH	DIR	LOC	YIELD(KSI)	TENSILE(KSI)	EL SCALE	ELONG(%)	
1121T3		106"	ALG	0.2360	AR	.2	T	F	44.0	71.0	2"	31	



0790003522

K. UGHADPAGA
MANAGER METALLURGICAL SERVICES

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.



ESSAR STEEL ALGOMA INC., 105 West Street Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No., Item & Date: 8012597 000120 2013/08/30	Shipment No. & Date: 1000064029 2013/08/30	TC No., Date & Time: ESA-97854 2013/08/30 - 08:29:51
Sold to Customer Name and Address: A.J. FORSYTH AND COMPANY LIMIT CARLISLE ROAD 830 NEW WESTMINSTER, British Columbia, Canada V3M 5P4	Ship to Customer Name and Address: A.J. FORSYTH & COMPANY LIMITED INDUSTRIAL AVENUE PRINCE GEORGE, British Columbia, Canada V2N 5S1	Customer PO NO./Item: M790006683 / 12 BOL NO.: 00023864 Cust. Part No.: Carrier: CN (CAD FUNDS) - GTW 188154

Customer Specification: HR STEEL SHEET Carbon SQ / SS To the Chemistry of ASTM A36 (08) Top Semi Critical Surface Improved Shape Restr Thickness 1/2 Tol Coil break considered

Supplementary Instructions: Test Cert 1.vancouver.purchasing@ajforyth.ca

Insp T/R: Test Report For Info Only

Cust Use: GENERAL MANUFACTURING

ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS MATERIAL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705)945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.

MEETS EN 10204 3.1

ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM

ALL HEATS FULLY KILLED.

HEATS INDICATED WITH (*) FINE GRAINED.

HEATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.

Dimensions (T x W x L)		Batch No.	Heat No-MS	Quantity	No. of Pcs	Dimensions (T x W x L)	Batch No.	Heat No-MS	Quantity	No. of Pcs			
0.1740 " x 60.000 "		MK00006223	9189P3-53	32,620 LB	1	0.1740 " x 60.000 "	MK00006224	9189P3-03	23,420 LB	1			
0.1740 " x 60.000 "		MK00006225	9189P3-02	23,290 LB	1	0.1740 " x 60.000 "	MK00006226	9189P3-52	28,150 LB	1			
0.1740 " x 60.000 "		MK00006227	9189P3-01	26,880 LB	1	0.1740 " x 60.000 "	MK00006222	9189P3-04	32,420 LB	1			
*****CHEMICAL PROPERTIES *****													
Heat No. (wt%)	C	Mn	P	S	Si	Cr	Ni	Cu	Mo	Al	Nb	V	Ti
9189P3*	0.20	0.75	0.014	0.006	0.030	0.03	0.02	0.03	0.01	0.025	0.000	0.000	0.001

***** MECHANICAL PROPERTIES *****													
Tensile Tests													
Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	METH	DIR	LOC	YIELD(KSI)	TENSILE(KSI)	EL SCALE	ELONG(%)	
9189P3		DSPC	ALG	0.1740	AR	.2	T	F	49.0	74.0	2"	28	



0790003451

K. UGHADPAGA

MANAGER METALLURGICAL SERVICES

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No., Item & Date: 8015053 000040 2013/09/24		Shipment No. & Date: 1000068071 2013/09/24		TC No., Date & Time: ESA-105318 2013/09/30 - 15:19:50									
Sold to Customer Name and Address: A.J. FORSYTH AND COMPANY LIMIT CARLISLE ROAD 830 NEW WESTMINSTER, British Columbia, Canada V3M 5P4		Ship to Customer Name and Address: A.J. FORSYTH & COMPANY LIMITED INDUSTRIAL AVENUE PRINCE GEORGE, British Columbia, Canada V2N 5S1		Customer PO NO./Item: M79006789 / 4 BOL NO.: 1000068071 Cust.Part No.: Carrier: CN (CAD FUNDS) - GTW 187710									
Customer Specification: HIR STEEL SHEET Carbon SQ / SS To the Chemistry of ASTM A36 (08) Top Semi Critical Surface Improved Shape Restr Thickness 1/2 Tol Coil break considered													
Supplementary Instructions: Test Cert 1.vancouver.purchasing@ajforyth.ca													
Insp TIR: Test Report For Info Only													
ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS WILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (709)945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.													
MEETS EN 10204 3.1 ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM													
ALL HEATS FULLY KILLED. HEATS INDICATED WITH (*) FINE GRAINED. HEATS INDICATED WITH (x) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.													
Dimensions (T x W x L) 0.1740 " x 60.000 "		Batch No. LAL0078A	Heat No.-MS 1226T3-53	Quantity 31,715 LB	Pcs 1								
*****CHEMICAL PROPERTIES*****													
Heat No. (wt%) 1226T3*	C 0.20	Mn 0.76	P 0.011	S 0.003	Si 0.020	Cr 0.02	Ni 0.02	Cu 0.03	Mo 0.00	Al 0.026	Nb 0.000	V 0.000	Ti 0.001
*****MECHANICAL PROPERTIES*****													
Tensile Tests													
Heat No. 1226T3	Batch No. DSPC	LAB ALG	GAUGE 0.1740	COND AR	METH .2	DIR T	LOC F	YIELD(KSI) 45.0	TENSILE(KSI) 68.0	EL SCALE 2"	ELONG(%) 30		



0790003532

K. UGHADPAGA
MANAGER METALLURGICAL SERVICES

WARNING** THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL, FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No., Item & Date.: 8015053 000040 2013/09/27 Shipment No. & Date.: 1000068770 2013/09/28 TC No., Date & Time : ESA-105323 2013/09/30 - 15:21:07

Sold to Customer Name and Address : A.J. FORSYTH AND COMPANY LIMIT Ship to Customer Name and Address: A.J. FORSYTH & COMPANY LIMITED Customer PO NO./Item: M79006789 / 4

CARLISLE ROAD 830 INDUSTRIAL AVENUE BOL NO.: 1000068770

NEW WESTMINSTER, British Columbia, Canada PRINCE GEORGE, British Columbia, Canada Cust. Part No.: CN (CAD FUNDS) - glw 188204

V3M 5P4 V2N 5S1 Carrier :

Customer Specification : HR STEEL SHEET Carbon SQ / SS To the Chemistry of ASTM A36 (08) Top Semi Critical Surface Improved Shape Restr Thickness 1/2 Tol Coil break considered

Supplementary Instructions : Test Cert 1:vancover.purchasing@ajforyth.ca E

Insp T/R : Test Report For Info Only Cust Use : GENERAL MANUFACTURING

ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS WILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705)945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.

MEETS EN 10204 3.1

ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM

ALL HEATS FULLY KILLED.
HEATS INDICATED WITH (*) FINE GRAINED.
HEATS INDICATED WITH (x) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.

Dimensions (T x W x L)		Batch No.	Heat No-MS	Quantity	No. of Pcs	Dimensions (T x W x L)		Batch No.	Heat No-MS	Quantity	No. of Pcs		
0.1740 " x 60.000 "		LAL0164A	1236T3-03	29,970 LB	1	0.1740 " x 60.000 "		LAL0162A	1236T3-02	31,470 LB	1		
*****CHEMICAL PROPERTIES *****													
Heat No. (wt%)	C	Mn	P	S	Si	Cr	Ni	Cu	Mo	Al	Nb	V	Ti
1236T3*	0.20	0.77	0.013	0.005	0.010	0.02	0.01	0.03	0.00	0.023	0.000	0.000	0.001

*****MECHANICAL PROPERTIES*****

Tensile Tests											
Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	WETH	DIR	LOC	YIELD(KSI)	TENSILE(KSI)	ELONG(%)
1236T3		DSPC	ALG	0.1740	AR	.2	T	F	48.0	69.0	28



0790003540

K. UGHADPAGA

MANAGER METALLURGICAL SERVICES

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No., Item & Date: 8012597 000120 2013/08/30		Shipment No. & Date: 1000064029 2013/08/30		TC No., Date & Time: ESA-97854 2013/08/30 - 08:29:51																																									
Sold to Customer Name and Address: A.J. FORSYTH AND COMPANY LIMIT CARLISLE ROAD 830 NEW WESTMINSTER, British Columbia, Canada V3M 5P4		Ship to Customer Name and Address: A.J. FORSYTH & COMPANY LIMITED INDUSTRIAL AVENUE PRINCE GEORGE, British Columbia, Canada V2N 5S1		Customer PO NO./Item: M790006683 / 12 BOL NO.: 00023864 Cust. Part No.: Carrier: CN (CAD FUNDS) - GTW 188154																																									
Customer Specification: HR STEEL SHEET Carbon SQ / SS To the Chemistry of ASTM A36 (08) Top Semi Critical Surface Improved Shape Restr Thickness 1/2 Tol Coil break considered																																													
Supplementary Instructions: Test Cert 11.vancouver.purchasing@ajforsyth.ca																																													
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<table><thead><tr><th>Dimensions (T x W x L)</th><th>Batch No.</th><th>Heat No.-MS</th><th>Quantity</th><th>No. of Pcs</th><th>Dimensions (T x W x L)</th><th>Batch No.</th><th>Heat No.-MS</th><th>Quantity</th><th>No. of Pcs</th></tr></thead><tbody><tr><td>0.1740 " x 60.000 "</td><td>MK000006223</td><td>9189P3-53</td><td>32,620 LB</td><td>1</td><td>0.1740 " x 60.000 "</td><td>MK000006224</td><td>9189P3-03</td><td>23,420 LB</td><td>1</td></tr><tr><td>0.1740 " x 60.000 "</td><td>MK000006225</td><td>9189P3-02</td><td>23,290 LB</td><td>1</td><td>0.1740 " x 60.000 "</td><td>MK000006226</td><td>9189P3-52</td><td>28,150 LB</td><td>1</td></tr><tr><td>0.1740 " x 60.000 "</td><td>MK000006227</td><td>9189P3-01</td><td>26,880 LB</td><td>1</td><td>0.1740 " x 60.000 "</td><td>MK000006222</td><td>9189P3-04</td><td>32,420 LB</td><td>1</td></tr></tbody></table>						Dimensions (T x W x L)	Batch No.	Heat No.-MS	Quantity	No. of Pcs	Dimensions (T x W x L)	Batch No.	Heat No.-MS	Quantity	No. of Pcs	0.1740 " x 60.000 "	MK000006223	9189P3-53	32,620 LB	1	0.1740 " x 60.000 "	MK000006224	9189P3-03	23,420 LB	1	0.1740 " x 60.000 "	MK000006225	9189P3-02	23,290 LB	1	0.1740 " x 60.000 "	MK000006226	9189P3-52	28,150 LB	1	0.1740 " x 60.000 "	MK000006227	9189P3-01	26,880 LB	1	0.1740 " x 60.000 "	MK000006222	9189P3-04	32,420 LB	1
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*****CHEMICAL PROPERTIES*****																																													
Heat No. (wt%)	C	Mn	P	S	Si	Cr	Ni	Cu	Mo	Al	Nb	V	Ti																																
9189P3*	0.20	0.75	0.014	0.006	0.030	0.03	0.02	0.03	0.01	0.025	0.000	0.000	0.001																																
*****MECHANICAL PROPERTIES*****																																													
Tensile Tests																																													
Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	METH	DIR	LOC	YIELD(KSI)	TENSILE(KSI)	EL SCALE	ELONG(%)																																	
9189P3		DSPC	ALG	0.1740	AR	2	T	F	49.0	74.0	2"	28																																	



0790003451

MANAGER METALLURGICAL SERVICES

K. UGHADPAGA

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

ESSA Steel Algonia Inc.

CUSTOMER: ... BASE ORDER NUMBER
M 79005924

ENTRY DATE
2012/02/23

CREATE DATE
2012/04/02

TALLY NUMBER
270968

SHIPPER'S NO.
-

CARRIER
CN

SHIP TO CUSTOMER NAME AND ADDRESS
105 West Stree Sault Ste. Marie, Ontario Canada P6A 7B4

MILL ORDER
-34257

17591

A. J. FORSYTH AND COMPANY LIMITED
830 CARLISLE ROAD
ANNACIS INDUSTRIAL ESTATE
NEW WESTMINSTER, B.C. V3M 5P4

A. J. FORSYTH AND COMPANY LIMITED
C/O INDUSTRIAL AVENUE
PRINCE GEORGE, B.C.

CUSTOMER SPECIFICATION

HOT ROLLED STEEL SHEET - CARBON - TO THE CHEM OF ASTM A36 (08) - STRI O - CUT
EDGE ACCEPTED - RESTRICTED GAUGE 1/2 TOL - STRUCTURAL SEMI-CRIT SURFCE
IMPRVD SHPE - COIL END TEST ONE/HEAT INFO ONLY

SUPPLEMENTARY INSTRUCTIONS

TEST CERT 1: VANCOUVER. PURCHASING&AUFORSYTH.CA TEST CERT 2: P
LATE TEST COUPON:

INSPECTION TEST REPORTS REQUIRED

USE STRL

2000219869 DS
2012/04/02 19:15

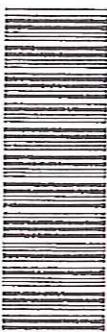
MEETS EN 10204:2004 TYPE 3.1
ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSASTEELALGOMA.COM
HEATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS

CUSTOMER ITEM 00011 OUR ITEM 006 DIMENSIONS .485 MIN X 48 X COIL

COIL NUMBER	HEAT-MS	PIECES	NO.	WEIGHT	COIL NUMBER	HEAT-MS	PIECES	NO.	WEIGHT
61013104	4257M-36	1	31647		61215005	4781M-03	1	31900	
61215006	4781M-53	1	30431						

TENSILE TESTS:

* SAMPLE *	* TEST *	* YIELD TENSILE *	* ELONG *
SRCE GAUGE COND METH DIR	4850 AR :2	48.4 KSI	24(8")
DSPC	4850 AR	72.0 KSI	26(8")



TAB
ALG
ALG

HEAT	(WT %)	C	MAN	P	S	SI	CR	NI	CU	MO	AL	CB	V	B
4257M		20	75	.015	.009	.02	.04	.03	.03	.01	.031	.000	.000	
4781M		19	76	.006	.007	.02	.02	.01	.03	.00	.032	.000	.000	

PAGE 1 OF 2 EDI

WARNING

THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

MILL TEST REPORTS

ESSA STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES.

K. UGHADPAGA

MANAGER METALLURGICAL SERVICES

THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSA STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705) 945-2624 COLLECT FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT.



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No./Item & Date: 8015053 000070 2013/09/20

Shipment No. & Date: 1000067484 2013/09/21

TC No., Date & Time: ESA-104715 2013/09/28 - 14:30:37

Sold to Customer Name and Address:

Ship to Customer Name and Address:

Customer PO No./Item: M79006789 / 7

A.J. FORSYTH AND COMPANY LIMIT

A.J. FORSYTH & COMPANY LIMITED

BOL NO.: 1000067484

CARLISLE ROAD 830

INDUSTRIAL AVENUE

Cust. Part No.:

NEW WESTMINSTER, British Columbia, Canada

PRINCE GEORGE, British Columbia, Canada

Carrier:

V3M 5P4

V2N 5S1

CN (CAD FUNDS) - cn 136916 REV

Customer Specification: HR STEEL SHEET Carbon SQ / SS To the Chemistry of ASTM A36 (08) Top Standard Surface Improved Shape Restr. Thickness 3/4 Tol Coil break considered

Supplementary Instructions: Test Cert 1:vanouver.purchasing@ajforyth.ca

Insp T/R: Test Report For Info Only

Cust Use: GENERAL FABRICATION IMP

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MEETS EN 10204 3.1

ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ESSARSTEELALGOMA.COM

ALL HEATS FULLY KILLED

HEATS INDICATED WITH (*) FINE GRAINED

HEATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.

Dimensions (T x W x L)		Batch No.	Heat No-MS	Quantity	No. of Pcs	Dimensions (T x W x L)		Batch No.	Heat No-MS	Quantity	No. of Pcs		
0.2360 " x 72.000 "		HQC1941	1121T3-02	32,202 LB	1	0.2360 " x 72.000 "		HQC1943	1121T3-51	31,660 LB	1		
*****CHEMICAL PROPERTIES*****													
Heat No. (wt%)	C	Mn	P	S	Si	Cr	Ni	Cu	Mo	Al	Nb	V	Ti
1121T3*	0.20	0.86	0.013	0.010	0.020	0.03	0.02	0.06	0.00	0.026	0.000	0.000	0.001
*****MECHANICAL PROPERTIES*****													
Tensile Tests													
Heat No.	Batch No.	SRCE	LAB	GAUGE	COND	METH	DIR	LOC	YIELD(KSI)	TENSILE(KSI)	EL SCALE	ELONG(%)	
1121T3		106"	ALG	0.2360	AR	.2	T	F	44.0	71.0	2"	31	



0790003522

K. UGHADPAGA

MANAGER METALLURGICAL SERVICES

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

STEEL

SO No./Item & Date:	8015053 000060 2013/09/29	Shipment No. & Date:	1000068802 2013/09/29	TC No., Date & Time:	ESA-104984 2013/09/29 - 23:42:35				
Sold to Customer Name and Address:	A.J. FORSYTH AND COMPANY LIMIT CARLISLE ROAD 830 NEW WESTMINSTER, British Columbia, Canada V3M 5P4	Ship to Customer Name and Address:	A.J. FORSYTH & COMPANY LIMITED INDUSTRIAL AVENUE PRINCE GEORGE, British Columbia, Canada V2N 5S1	Customer PO NO./Item:	M79006789 / 6				
				BOL NO.:	1000068802				
				Cust. Part No.:	CN (CAD FUNDS) - gtw 188041				
Customer Specification:	HR STEEL SHEET Carbon SQ / SS To the Chemistry of ASTM A36 (08) Top Semi Critical Surface Improved Shape Restr Thickness 1/2 Tol Coil break considered								
Supplementary Instructions: Test Cert 1.vancouver.purchasing@ajforysyth.ca									
Insp T/R:	Test Report For Info Only	Cust Use: GENERAL MANUFACTURING							
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MEETS EN 10204 3.1									
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ALL HEATS FULLY KILLED.									
HEATS INDICATED WITH (*) FINE GRAINED.									
HEATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.									
*****CHEMICAL PROPERTIES*****									
Dimensions (T x W x L)	Batch No.	Heat No.-MS	Quantity	No. of Pcs	Dimensions (T x W x L)				
0.2360 " x 48.000 "	HAL3195	161313-52	32.000 LB	1	0.2360 " x 48.000 "				
0.2360 " x 48.000 "	HAL3198	161313-04	31.493 LB	1	0.2360 " x 48.000 "				
Heat No. (wt%)	C	Mn	P	S	Si				
161313*	0.20	0.76	0.011	0.005	0.020				
					Cr				
					0.04				
					Ni				
					0.03				
					Cu				
					0.04				
					Mo				
					0.01				
					Al				
					0.028				
					Nb				
					0.000				
					V				
					0.000				
					Ti				
					0.001				
*****MECHANICAL PROPERTIES*****									
Tensile Tests	Heat No.	Batch No.	SRCE LAB	GAUGE COND METH DIR LOC YIELD(KSI)	TENSILE(KSI)				
	161313		DSPC ALG	0.2360 AR	2				
					70.0				
					29				



0790003527

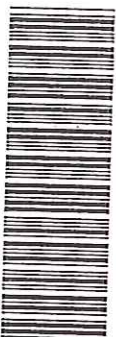
K. UGHADPAGA
MANAGER METALLURGICAL SERVICES

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ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

SO No./Item & Date.: 8012597 000060 2013/09/04		Shipment No. & Date.: 1000066503 2013/09/16		TC No., Date & Time : ESA-102285 2013/09/19 - 15:52:55									
Sold to Customer Name and Address : A.J. FORSYTH AND COMPANY LIMIT CARLISLE ROAD 830 NEW WESTMINSTER, British Columbia, Canada		Ship to Customer Name and Address: A.J. FORSYTH & COMPANY LIMITED INDUSTRIAL AVENUE PRINCE GEORGE, British Columbia, Canada		Customer PO NO./Item: M79006683 / 6 BOL NO.: 1000066503 Cust.Part No.: Carrier : CN (CAD FUNDS) - GTW 187529									
Customer Specification : HR STEEL SHEET Carbon SQ / SS To the Chemistry of ASTM A36 (08) Top Semi Critical Surface Improved Shape Restr Thickness 3/4 Tol Coil break considered													
Supplementary Instructions : Test Cert 1:vancouver.purchasing@ajforyth.ca													
Insp T/R : Test Report For Info Only													
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ALL HEATS FULLY KILLED. HEATS INDICATED WITH (*) FINE GRAINED. HEATS INDICATED WITH (+) MADE IN CANADA WITH DOMESTIC AND NORTH AMERICAN MATERIALS.													
Dimensions (T x W x L) 0.1740 " x 72.000 "		Batch No. LQC0527	Heat No.-MS 0222T3-03	Quantity 32,430 LB	Pcs 1								
*****CHEMICAL PROPERTIES*****													
Heat No. (wt%) 0222T3*	C 0.20	Min 0.83	P 0.011	S 0.010	Si 0.020	Cr 0.03	Ni 0.02	Cu 0.04	Mo 0.01	Al 0.029	Nb 0.000	V 0.000	Ti 0.001
*****MECHANICAL PROPERTIES*****													
Tensile Tests													
Heat No. 0222T3	Batch No. 106"	SRCE ALG	LAB 0.1740	GAUGE AR	COND .2	METH T	DIR F	LOC 52.0	YIELD(KSI) 74.0	TENSILE(KSI) 2"	EL SCALE 27	ELONG(%)	



0790003514

K. UGHADPAGA

MANAGER METALLURGICAL SERVICES

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL, FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.



Test Certificate

Document: 01033091

Product Description

Thickness: .2500

Heat: 118327

Supplier: THYSSENKRUPP STEEL USA

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

Chemistry Data

C	Mn	P	S	SI	AL	CB	V	CU	CR
.192	.824	.009	.0074	.012	.0308	.00	.001	.006	.014
NI	MO	SH	TI	N	B	ZR	PB		
.011	.00	.001	.00	.004	.00	.00	.00		

Mechanical Data

	Yield (PSI)	Tensile (PSI)	Elongation	Reduction Of Area	Sample Taken From
1	43420	66964	40.05 2"	53.4000	Head
2	42208	67371	39.50 2"	51.4800	Center

Produced From Coil

Melted and Manufactured In: Not Provided

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 THYSSENKRUPP STEEL USA and have been included in this Test Certificate solely for your information.

Test Certificate

Form TCI: Revision 1: Date 31 Oct 2000

Customer P.O. No.: 01012706						MWH Order No.: 41-378131-01						Shipping Manifest : PT090966					
Product Description: ASTM A36(12)/A709(1)36/ASME SA36(10A11)																	
AASHIO M27D(01)36, 0.80-1.20 MN																	
Size: 0.250 X 96.00 X 240.0 (IN)																	
Tested Pieces				Tensile				Charpy Impact Tests									
Heat Id	Piece Id	Tested Thickness	Tst Loc (KSID)	YS (KSID)	UTS (KSID)	%RA	Elong 2in	Elong 8in	Tst Dir	Hardness	Abs. Energy(FTLB)	% Shear	Tst Temp	Tst Dir	Tst Siz (mm)	EDW/T	Trap %Shr
B3H774	0635	0.254 (T.L.C)	L C	60	73		23		T		1	2					
			L	56	70		25		T		2	3					
B3H774	0643	0.254 (T.L.C)	L C	58	69		31		T								
			C	52			30		T								

Heat 30-10
#774

C	Ma	P	S	Si	Total	Cu	Ni	Cr	Mo	Co	V	Ti	B	N	C
.16	.86	.021	.003	.04	.031	.29	.08	.15	.02	.001	.003	.008	.0001	.0073	.3

MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT

$CEV (ITW) = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15$

MATERIAL MARKED WITH AN ASTERISK IS PRODUCED FROM COIL

100% MELTED AND MANUFACTURED IN THE U.S.A.

PRODUCTS SHIPPED:

0645

PCS. 28 WGT. 1770

5739

(U)
Cust Part #: 01794

WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION

Chad Faureysck
CHECKED BY

TANK BOTTOMS



United States Steel Corporation

Melted & Manufactured in the USA Certificate

Order Number: CQ34459-01 Part Number: C-003-04-2430X73 Purchase Order Number: RG-7141-03
Source Plant: Granite City Works Certificate Date: 01/25/2013

Shipment Details

Sold To: Cargill Inc Steel & Wire Div Ship To: Cargill Inc Plant 2 M31 Producer: United States Steel Corporation
21 Waterway Ave Ste 525 333 Old Rock Rd 600 Grant Street
The Woodlands, TX 77380-3129, Plant 2 Pittsburgh, PA 15219, USA
US Granite City, IL 62040-6857, US

Order Information - CQ34459-01

ASTM A1018-10 36 TYPE 2 FOR CONVERSION TO A36 APPROVED SS C .25 MAX MN .80/1.20 NON-PICKLE NON-TEMPER
ROLLED HR36SK68 EXPOSED-NONTR PRIME SIDE OUT DRY YS MIN 36 KSI TS 68 KSI/80 KSI EL MIN 21 % EL DIST 2 INCHES

Item	Description	Ft Length IN
01	.243IN X 73	

Load Life Information

Load ID:	Ship Date:	Warehouse Number:	Material ID:	Heat Number:	Weight:	Lin Ft/Pcs:
830356	01/25/2013	HSM 00512194	HSM 00512194	49892C	47,370	751

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TANK BOTTOMS

Coil Detail

181608-6
181609-6
181610-6
181611-6
181612-6
181613-6
181614-6
181615-6
181616-6
181617-6
181618-6

181608-6
181609-6
181610-6
181611-6
181612-6
181613-6
181614-6
181615-6
181616-6
181617-6
181618-6

CARGILL INC CARGILL STEEL & WIRE DIV
Mill ID: HSM 00512194
Order Item: CQ34459-01
EBS Order Number: C-003-04-243073
Part Number: RG-7141-03
PO Number:
Coated Seq:

OP ID: HSM 00512194
PLT: NGCO
Gauge UOM: 0.243 IN
Width UOM: 73 IN
Length UOM: COIL

Heat Number: 49692C
Weight UOM: 47370-0 LBS
SID: 098201243
Ship Date: 01/25/2013
Base Met Thick UOM:

Specifications:
ASTM A1018-10 36 TYPE 2 FOR CONVERSION TO A36 APPROVED SS C.25 MAX MIN .80/1.20 NON-PICKLE NON-TEMPER ROLLED HR36SK58 EXPOSED-NONTR PRIME
SIDE OUT DRY VS MIN 36 KSI TS 58 KSI/80 KSI EL MIN 21 % EL DIST 2 INCHES

Inspection Notes:
01 MILL INSPECTION RAISE ALSO RAFT, FOR CONVERSION FROM HOT ROLL SHEET TO PLATE SPECIFICATION ASTM A36 BY PURCHASER. USS HAS NOT PERFORMED TESTING TO THE REFERENCED PLATE SPECIFICATION. SUCH TESTING IS THE RESPONSIBILITY OF THE PURCHASER.

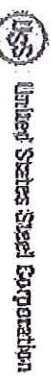
Physical and Mechanical Test Results

Test Type	Results	UOM	Direction
YIELD STRENGTH	49200	PSI	TRANS.
TENSILE STRENGTH (UTS)	72000	PSI	TRANS.
ELONGATION %	32.0	PERCENT	TRANS.
N-VALUE	.199	TEST SPECIFIC SCALE	TRANS.
YIELD STRENGTH	52000	PSI	TRANS.
TENSILE STRENGTH (UTS)	73500	PSI	TRANS.
ELONGATION %	31.0	PERCENT	TRANS.
N-VALUE	.192	TEST SPECIFIC SCALE	TRANS.

Heat Chemistry for Heat Number 49692C, Order Number CQ34459-01, CHEMICAL ANALYSIS - HEAT

	Min	P	S	Si	Cu	Ni	Cr	Mo	Sr
C	.20	.015	.004	.006	.04	.01	.05	.00	.01
Al	.038	N	.001	.002	.002	.00			

Chemical analysis in weight %



TANK BOTTOMS



United States Steel Corporation

Melted & Manufactured in the USA Certificate

Order Number: CQ36299-01 Part Number: C-003-04-.2430X73 Purchase Order Number: RG-7262-02
Source Plant: Granite City Works Certificate Date: 03/20/2013

Shipment Details

Sold To: Cargill Inc Steel & Wire Div Ship To: Cargill Inc Plant 2 M31 Producer: United States Steel Corporation
21 Waterway Ave Ste 525 333 Old Rock Rd 600 Grant Street
The Woodlands, TX 77380-3129, Plant 2 Pittsburgh, PA 15219, USA
US Granite City, IL 62040-6857, US

Order Information - CQ36299-01

ASTM A1018-10 36 TYPE 2 FOR CONVERSION TO A36 APPROVED SS C .25 MAX MN .80/1.20 NON-PICKLE NON-TEMPER
ROLLED HR36SK58 EXPOSED-NONTR PRIME SIDE OUT DRY YS MIN 36 KSI TS 68 KSI/80 KSI EL MIN 21 % EL DIST 2 INCHES

Item	Description	Ft Length IN
01	.243IN X 73	

Load Lift Information

Load ID:	Ship Date:	Warehouse Number:	Material ID:	Heat Number:	Weight:	Lbs Ft/Pcs:
840547	03/20/2013	HSM 00532655	HSM 00532655	51658C	48,180	763

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Coil Detail

RPS-1/4 X TB X 446-102

171116
Bottoms

CARGILL INC CARGILL STEEL & WIRE DIV

Mill ID: HSM 00532655
Order/Item: CQ36299-01
EBS Order Number:
Part Number: C-003-04-2430X73
PO Number: RG-7262-02
Coated Seq:

OP ID: HSM 00532655
PLT: NSCO

Gauge UOM: 0.243 IN
Width UOM: 73 IN
Length UOM: COIL

Heat Number: 51658C
Weight UOM: 48180.0 Lbs
SID: 264503203
Ship Date: 03/20/2013
Base Met Thick UOM:

Specifications:
ASTM A1018-10 36 TYPE 2 FOR CONVERSION TO A36 APPROVED SS
SIDE OUT DRY YS MIN 36 KSI TS 58 KSI/80 KSI EL MIN 21 % EL DIST 2 INCHES

C 25 MAX MN .80/1.20 NON-PICKLE NON-TEMPER ROLLED HR36SK58

EXPOSED-NONTR PRIME

Inspection Notes:
01 MILL INSPECTION RAISE ALSO RAFT FOR CONVERSION FROM HOT ROLL SHEET TO PLATE SPECIFICATION ASTM A36 BY PURCHASER. USS HAS NOT PERFORMED TESTING TO THE REFERENCED PLATE SPECIFICATION. SUCH TESTING IS THE RESPONSIBILITY OF THE PURCHASER.

Physical and Mechanical Test Results

Test Type	Results	UOM	Direction	Position
YIELD STRENGTH	47200	PSI	TRANS.	TAIL
TENSILE STRENGTH (UTS)	73500	PSI	TRANS.	TAIL
ELONGATION %	25.0	PERCENT	TRANS.	TAIL
N-VALUE	.162	TEST SPECIFIC SCALE	TRANS.	TAIL
YIELD STRENGTH	49300	PSI	TRANS.	TAIL
TENSILE STRENGTH (UTS)	70500	PSI	TRANS.	TAIL
ELONGATION %	29.0	PERCENT	TRANS.	TAIL
N-VALUE	.191	TEST SPECIFIC SCALE	TRANS.	TAIL

Heat Chemistry for Heat Number 51658C, Order Number CQ36299-01, CHEMICAL ANALYSIS - HEAT

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn
.19	.94	.012	.008	.007	.04	.01	.03	.00	.01
Al	N	Ti	As	Zr					
.041	.006	.001	.002	.00					

Chemical analysis in weight %



TANK BOTTOMS



United States Steel Corporation

-- Melted & Manufactured in the USA Certificate --

Order Number: CQ33302-01 Part Number: C-003-04-2430X73 Purchase Order Number: RG-7064-03
Source Plant: Granite City Works Certificate Date: 12/12/2012

-- Shipment Details --

Sold To: Cargill Inc Steel & Wire Div Ship To: Cargill Inc Plant 2 M31 Producer: United States Steel Corporation
21 Waterway Ave Ste 525 333 Old Rock Rd 600 Grant Street
The Woodlands, TX 77380-3129, Plant 2 Pittsburgh, PA 15219, USA
US Granite City, IL 62040-6857, US

-- Order Information - CQ33302-01 --

ASTM A1018-10 36 TYPE 2 FOR CONVERSION TO A36 APPROVED SS C .25 MAX MN .80/1.20 NON-PICKLE NON-TEMPER
ROLLED HR36SK58 EXPOSED-NONTR PRIME SIDE OUT DRY YS MIN 36 KSI TS 68 KSI/80 KSI EL MIN 21 % EL DIST 2 INCHES

Item	Description	Ft Length IN
01	243IN X 73	

-- Load List Information --

Load ID:	Ship Date:	Warehouse Number:	Material ID:	Heat Number:	Weight:	Ln Ft/Pcs:
819499	11/27/2012	HSM 00497927	HSM 00497927	47936C	48,190	765
819499	11/27/2012	HSM 00498865	HSM 00498865	48100C	48,570	765

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Coil Detail

CARGILL INC CARGILL STEEL&WIRE DV

Mill ID:

HSM 00498865

Order/Item:

CO33302-01

EBS Order Number:

Part Number:

C-003-04-2430X73

PO Number:

RG-7064-03

Coated Seq:

OP ID:

HSM 00498865

PLT:

NGCO

Gauge UOM: 0.243 IN

Width UOM: 73 IN

Length UOM: COIL

Heat Number: 48180C
Weight UOM: 48570.0 Lbs

SID: 271011232

Ship Date: 11/27/2012

Base Met Thick UOM:

Specifications:

ASTM A1018-10 36 TYPE 2 FOR CONVERSION TO A36 APPROVED SS
SIDE OUT DRY VS MIN 36 KSI TS 58 KSI/80 KSI EL MIN 21 % EL DIST 2 INCHES

C 25 MAX MN .80/1.20 NON-PICKLE NON-TEMPER ROLLED HR36SK58 EXPOSED-NONTR PRIME

Inspection Notes:

01 MILL INSPECTION RASN ALSO RALT, FOR CONVERSION FROM HOT ROLL SHEET TO PLATE SPECIFICATION ASTM A36 BY PURCHASER. USS HAS NOT PERFORMED TESTING TO THE REFERENCED PLATE SPECIFICATION. SUCH TESTING IS THE RESPONSIBILITY OF THE PURCHASER.

Physical and Mechanical Test Results

Test Type	Results	UOM	Direction	Position
YIELD STRENGTH	50500	PSI	TRANS.	TAIL
TENSILE STRENGTH (UTS)	72000	PSI	TRANS.	TAIL
ELONGATION %	33.0	PERCENT	TRANS.	TAIL
N-VALUE	.194	TEST SPECIFIC SCALE	TRANS.	TAIL
YIELD STRENGTH	57500	PSI	TRANS.	TAIL
TENSILE STRENGTH (UTS)	76500	PSI	TRANS.	TAIL
ELONGATION %	28.0	PERCENT	TRANS.	TAIL
N-VALUE	.181	TEST SPECIFIC SCALE	TRANS.	TAIL

Heat Chemistry for Heat Number 48180C, Order Number CO33302-01, CHEMICAL ANALYSIS - HEAT

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn
.18	1.00	.008	.008	.006	.04	.01	.04	.00	.01
Al	N	TI	CB	AS	Zr				
.031	.005	.001	.003	.002	.00				

Chemical analysis in weight %

United States Steel Corporation

171327-5 PC
171328-3
171985-6
171986-6
171987-6
171988-6
171989-6



U.S. Steel Corporation Metallurgical Test Report
Granite City Works
Granite City, IL 62040

ORDER: CQ35613-01 SALES NUM: 1394711 PART: C-003-04-.2430X73
LOAD: 203402233 INVOICE: 543-835712 SHIP DATE: 02/23/13
PO NBR: RG-7220-01 VEH ID: NSAX8139

--- SOLD TO: ---
CARGILL INC STEEL & WIRE DIV
21 WATERWAY AVE STE 525
THE WOODLANDS, TX 77380-3129

--- SHIP TO: ---
CARGILL INC PLANT 2 M31
333 OLD ROCK RD
PLANT 2
GRANITE CITY, IL 62040-6857

MATL ID: HSM 00525812 HEAT: 51136C TEST OR PIECE IDENTITY: HSM 00525812
GAUGE: .2430 IN WIDTH: 73.00 IN LENGTH: COIL 1 PC WEIGHT: 48120 LBS
GAUGE: 6.172 MM WIDTH: 1854 MM LENGTH: COIL 1 PC WEIGHT: 21827 KGS

.....
N VALUE IS NOT A2LA ACCREDITED.
TEST RESULTS WERE CONDUCTED AND RECORDED IN ACCORDANCE WITH TEST METHODS ACCREDITED BY A2LA
CERTIFICATE NUMBERS: 0228.01 AND 0228.02.
THIS TEST REPORT IS IN COMPLIANCE WITH SPECIFICATION EN 10204 SECTION 3.1.
THESE TESTS WERE CONDUCTED IN ACCORDANCE WITH ASTM METHODS E415 AND A370.
RESULTS SHOWN RELATE ONLY TO THE ITEMS TESTED.
ROCKWELL HARDNESS VALUES FOR MATERIAL LESS THAN .038 GAUGE MAY BE CONVERTED FROM OTHER SCALES.
THIS PRODUCT WAS MANUFACTURED IN ACCORDANCE WITH THE QUALITY MANAGEMENT SYSTEM REGISTERED
TO ISO 9001, ISO/TS 16949 AND PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC 7/2, ANNEX I,
PARAGRAPH 4.3.
THIS REPORT SHALL NOT BE REPRODUCED OR ALTERED WITHOUT THE PRIOR WRITTEN APPROVAL OF UNITED
STATES STEEL.

THIS IS TO CERTIFY THAT THE PRODUCT DESCRIBED HEREIN WAS MANUFACTURED, TESTED AND/OR INSPECTED
IN ACCORDANCE WITH THE SPECIFICATION AND FULFILLS REQUIREMENTS IN SUCH RESPECT. PREPARED
BY THE OFFICE OF ROBERT J. SNYDER, PROC. TECH MGR. BY: *Robert J. Snyder* DATE: 02/24/13

*0402

P F

0 0 0 0128696003Z

RJS

0 0 1

PAGE 2 OF 2



U.S. Steel Corporation Metallurgical Test Report
Granite City Works
Granite City, IL 62040

ORDER: CQ35613-01 SALES NUM: 1394711 PART: C-003-04-.2430X73
LOAD: 203402233 INVOICE: 543-835712 SHIP DATE: 02/23/13
PO NBR: RG-7220-01 VEH ID: NSAX8139

--- SOLD TO: ---
CARGILL INC STEEL & WIRE DIV
21 WATERWAY AVE STE 525
THE WOODLANDS, TX 77380-3129

--- SHIP TO: ---
CARGILL INC PLANT 2 M31
333 OLD ROCK RD
PLANT 2
GRANITE CITY, IL 62040-6857

MATL ID: HSM 00525812 HEAT: 51136C TEST OR PIECE IDENTITY: HSM 00525812
GAUGE: .2430 IN WIDTH: 73.00 IN LENGTH: COIL 1 PC WEIGHT: 48120 LBS
GAUGE: 6.172 MM WIDTH: 1854 MM LENGTH: COIL 1 PC WEIGHT: 21827 KGS

SPEC: HOT ROLL CARBON ASTM A1018-10 36 TYPE 2 FOR CONVERSION TO A36 APPROVED SS C .25 MAX MN
.80/1.20 NON-PICKLE NON-TEMPER ROLLED HR36SK58 EXPOSED-NONTR PRIME SIDE OUT DRY XS MIN 36
KSI TS 50 KSI/80 KSI EL MIN 21 % EL DIST 2 INCHRS

INSP: 01 MILL INSPECTION RA/SN ALSO RA/LT, FOR CONVERSION FROM HOT ROLL SHEET TO PLATE
SPECIFICATION ASTM A36 BY PURCHASER. USS HAS NOT PERFORMED TESTING TO THE REFERENCED
PLATE SPECIFICATION. SUCH TESTING IS THE RESPONSIBILITY OF THE PURCHASER.

HEAT: 51136C
C=.20 MN=1.02 P=.014 S=.007 CU=.05 SI=.013 AL=.047 N=.0038 V=.000 CA=.000 MO=.00 CR=.05
NI=.02 SN=.01 CB=.000 TI=.001 B=.0000
Chemical analysis in weight %.

TEST RESULT - 51136C	VALUE	DIRECTION	LOCATION
Yield strength	54500 PSI	Transverse	Tail
Tensile strength (UTS)	76000 PSI	Transverse	Tail
Elongation %	29%	Transverse	Tail
N Value	.174		
Yield strength	59500 PSI	Transverse	Tail
Tensile strength (UTS)	77000 PSI	Transverse	Tail
Elongation %	30%	Transverse	Tail
N Value	.183		

END OF TEST RESULT DATA

THIS IS TO CERTIFY THAT THE PRODUCT DESCRIBED HEREIN WAS MANUFACTURED, TESTED AND/OR INSPECTED
IN ACCORDANCE WITH THE SPECIFICATION AND FULFILLS REQUIREMENTS IN SUCH RESPECT. PREPARED
BY THE OFFICE OF ROBERT J. SNYDER, PROC.TECH MGR. BY: DATE:

Coil Detail

3/16 x 73 x 146

TRUCK ROOFS

175833-8 pc
175834-8
175835-8
175836-8
175837-8
175838-8
175839-8
175840-8
175841-8

CARGILL INC CARGILL STEEL & WIRE DIV

Mill ID:

HSM 00529252

Order Item:

CQ35776-01

EBS Order Number:

C-003-03-1810X73

Part Number:

RG-7223-01

Coated Seq:

OP ID:

HSM 00529252

PLT:

NGCO

Heat Number:

51313C

Weight UOM:

48680.8 lbs

SID:

222703053

Ship Date:

03/05/2013

Base Met Thick UOM:

175841-8

Specifications:

ASTM A1011-12B 36 TYPE 2 FOR CONVERSION TO A36 APPROVED SS
DRY YS MIN 36 KSI TS 58 KSI/80 KSI EL MIN 21 % EL DIST 2 INCHES

C 25 MAX MN .80/1.20 NON-PICKLE NON-TEMPER ROLLED HR36SK58

EXPOSED PRIME SIDE OUT

Inspection Notes:

01 MILL INSPECTION RA/SN ALSO RAL/T FOR CONVERSION FROM HOT ROLL SHEET TO PLATE SPECIFICATION ASTM A36 BY PURCHASER. USS HAS NOT PERFORMED TESTING TO THE REFERENCED PLATE SPECIFICATION. SUCH TESTING IS THE RESPONSIBILITY OF THE PURCHASER.

Physical and Mechanical Test Results

Test Type	Results	UOM	Direction	Position
YIELD STRENGTH	53000	PSI	LONG.	TAIL
TENSILE STRENGTH (UTS)	74500	PSI	LONG.	TAIL
ELONGATION %	30.0	PERCENT	LONG.	TAIL
N-VALUE	.179	TEST SPECIFIC SCALE	LONG.	TAIL
YIELD STRENGTH	54500	PSI	LONG.	TAIL
TENSILE STRENGTH (UTS)	76000	PSI	LONG.	TAIL
ELONGATION %	29.0	PERCENT	LONG.	TAIL
N-VALUE	.168	TEST SPECIFIC SCALE	LONG.	TAIL

Heat Chemistry for Heat Number 51313C, Order Number CQ35776-01, CHEMICAL ANALYSIS - HEAT

	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn
	.21	1.00	.013	.005	.014	.04	.01	.05	.00	.01
	Al	N	Ti	As	Ca	Zr				
	.048	.003	.002	.002	.000	.00				

Chemical analysis in weight %

175842-8
175843-4

United States Steel Corporation

TANK ROOFS



Melted & Manufactured in the USA Certificate

Order Number: CQ35776-01 Part Number: C-003-03-.1810X73 Purchase Order Number: RG-7223-01
Source Plant: Granite City Works Certificate Date: 03/05/2013

Shipment Details

Sold To: Cargill Inc Steel & Wire Div Ship To: Cargill Inc Plant 2 M31 Producer: United States Steel Corporation
21 Waterway Ave Ste 525 333 Old Rock Rd 600 Grant Street
The Woodlands, TX 77380-3129, Plant 2 Pittsburgh, PA 15219, USA
US Granite City, IL 62040-6857, US

Order Information: CQ35776-01

ASTM A1011-12B 36 TYPE 2 FOR CONVERSION TO A36 APPROVED SS C .25 MAX MN .80/1.20 NON-PICKLE NON-TEMPER
ROLLED HR36SK58 EXPOSED PRIME SIDE OUT DRY YS MIN 36 KSI TS 58 KSI/80 KSI EL MIN 21 % EL DIST 2 INCHES

Item Description
01 .181IN X 73

Ft Length IN

Load Lift Information

Load ID:	Ship Date:	Warehouse Number:	Material ID:	Heat Number:	Weight:	Lin Ft/Pcs:
837987	03/05/2013	HSM 00528611	HSM 00528611	51313C	48,530	1,022
837987	03/05/2013	HSM 00528612	HSM 00528612	51313C	48,570	1,025
837987	03/05/2013	HSM 00529252	HSM 00529252	51313C	48,680	1,021

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24Mar14 14:31

TEST CERTIFICATE

No: FC 6430

CARGILL STEEL SERVICE CENTERS
DEPARTMENT OF CARGILL, INCORPORATED
120 NE FRONTAGE ROAD
FORT COLLINS CO 80524
Tel: 918-266-5660 Fax: 918 266-6920

P/O No 3612
Rel
S/O No FC 2927-001
B/L No FC 2660-001 Shp 15Oct13
Inv No Inv

Sold To: (23983)
HIGHLAND PROJECTS LLC
PO BOX 31492
BILLINGS MT 59107

Ship To: (2)
MAJOR METALS SERVICES
1110 ROBERSON CIRCLE
GILLETTE WY 82717-2856

Tel: 406-969-2595 Fax: 406 969-2597

CERTIFICATE of ANALYSIS and TESTS

Cert. No: FC 6430
15Oct13

Part No
RPS STEEL ASTMA-36/ASME SA-36
3/16 X 73.0000" X 146.0000"

Pcs Wgt
60 33,922

Heat Number	Tag No	Pcs	Wgt
51313C	175119	8	4,522
	YLDH=52/TENSH=75/ELONH=28/MELT=<USA>/MFG=<USA>/MILL=<USS>		
	YLDH=45/TENSH=72/ELONH=30		
51313C	175120	8	4,522
	YLDH=52/TENSH=75/ELONH=28/MELT=<USA>/MFG=<USA>/MILL=<USS>		
	YLDH=45/TENSH=72/ELONH=30		
51313C	175121	8	4,522
	YLDH=52/TENSH=75/ELONH=28/MELT=<USA>/MFG=<USA>/MILL=<USS>		
	YLDH=45/TENSH=72/ELONH=30		
51313C	175122	8	4,522
	YLDH=52/TENSH=75/ELONH=28/MELT=<USA>/MFG=<USA>/MILL=<USS>		
	YLDH=45/TENSH=72/ELONH=30		
51313C	175123	8	4,522
	YLDH=52/TENSH=75/ELONH=28/MELT=<USA>/MFG=<USA>/MILL=<USS>		
	YLDH=45/TENSH=72/ELONH=30		
51313C	175132	8	4,522
	YLDH=52/TENSH=75/ELONH=28/MELT=<USA>/MFG=<USA>/MILL=<USS>		
	YLDH=45/TENSH=72/ELONH=30		
51313C	175133	8	4,522
	YLDH=52/TENSH=75/ELONH=28/MELT=<USA>/MFG=<USA>/MILL=<USS>		
	YLDH=45/TENSH=72/ELONH=30		
51313C	3956	4	2,268
	YLDH=52/TENSH=75/ELONH=28/MELT=<USA>/MFG=<USA>/MILL=<USS>		
	YLDH=45/TENSH=72/ELONH=30		

Heat Number
51313C

*** Chemical Analysis ***
=<> C=0.2100 Mn=1.0000 P=0.0130 S=0.0050 Si=0.0140 Cu=0.0400
Al=0.0480 Ti=0.0020 Ca=0.0000 Mo=0.0000 Cr=0.0500 Ni=0.0100
Sn=0.0100 N=0.0037

THIS IS TO CERTIFY THAT THE PRODUCT DESCRIBED
HEREIN WAS SAMPLED AND TESTED IN ACCORDANCE
WITH THE SPECIFICATION, TO OUR KNOWLEDGE,
AND FULFILLS REQUIREMENTS IN SUCH RESPECT.

TANK SHELL

24Mar14 14:51

TEST CERTIFICATE

No: FC 6429

CARGILL STEEL SERVICE CENTERS
DEPARTMENT OF CARGILL, INCORPORATED
120 NE FRONTAGE ROAD
FORT COLLINS CO 80524
Tel: 918-266-5660 Fax: 918 266-6920

P/O No 3612
Rel
S/O No FC 2925-001
B/L No FC 2659-001 Shp 15Oct13
Inv No Inv

Sold To: (23983)
HIGHLAND PROJECTS LLC
PO BOX 31492
BILLINGS MT 59107

Ship To: (1)
HIGHLAND PROJECTS LLC
301 ORCHARD LANE
BILLINGS MT 59101

Tel: 406-969-2595 Fax: 406 969-2597

CERTIFICATE of ANALYSIS and TESTS

Cert. No: FC 6429
15Oct13

Part No
RPS STEEL ASTMA-36/ASME SA-36
3/16 X 60.0100" X 452.0000"

Pcs Wgt
9 12,986

Heat Number
57232D

Tag No
3954

Pcs Wgt
9 12,986

YLDH=49/TENSH=74/ELONH=29/MELT=<USA>/MFG=<USA>/MILL=<USS>
YLDC=50/TENSC=68/ELONC=29

Heat Number
57232D

*** Chemical Analysis ***
C=0.2100 Mn=1.0100 P=0.0090 S=0.0080 Cu=0.0300 Si=0.0100
Al=0.0440 N=0.0052 V=0.0000 Ca=0.0000 Mo=0.0000 Cr=0.0400
Ni=0.0100 Sn=0.0000 Cb=0.0000 Ti=0.0020 B=0.0000

THIS IS TO CERTIFY THAT THE PRODUCT DESCRIBED
HEREIN WAS SAMPLED AND TESTED IN ACCORDANCE
WITH THE SPECIFICATION, TO OUR KNOWLEDGE,
AND FULFILLS REQUIREMENTS IN SUCH RESPECT.



1770 Bill Sharp Boulevard, Muscatine, IA 52761-9412

Test Certificate

Form TCI: Revision 1: Date 31 Oct 2000

Customer P.O. No.: 03043830		Mill Order No. 41-870986-03		Shipping Manifest MR206360	
Product Description: ASTM A572-50M345(10)/A709-50M345(11)					
0.12% MIN. C. 0.10% MAX. SI					
Size: 0.375 X 96.00 X 240.0 (IN)				Ship Date: 19 Aug 13	
				Cert Date: 19 Aug 13	
				Cert No: 061405268	
				(Page 1 of 1)	

Heat Id	Piece Id	Tested Thickness	Tst Loc	YS (KSI)	UTS (KSI)	%RA	Elong %	Tst Dir	Average Hardness	Abs. Energy (FTLB)			Charpy Impact Tests			Tst Tmp	Tst Dir	Tst Siz (mm)	BDWTT	Timp %Shr
										1	2	3	1	2	3					
A3H145	C47	0.748 (DISCRT)	L 57	77	79	31	28	T												
A3H145	C48	0.245 (DISCRT)	L 62	79	79	28	28	T												
A3H882	C52	0.371 (DISCRT)	L 62	79	79	28	28	T												

Heat Id	C	Mn	P	S	Si	TOTAL	Cu	Ni	Cr	Chemical Analysis									
										Mo	Co	V	Ti	Al	N	O	H	Nb	As
A3H145	.15	1.13	.011	.004	.04	.025	.20	.16	.10	.05	.001	.031	.005						
A3H882	.16	1.18	.012	.006	.04	.024	.28	.16	.10	.05	.001	.038	.006						

MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT
PER EN 10204:2004 INSPECTION CERTIFICATE 3.1 COMPLIANT
100% MELTED AND MANUFACTURED IN THE USA.
PRODUCTS SHIPPED: C52
A3H882
PCS: 3, MGT: 7382
A3H145
C49
PCS: 4, MGT: 9212

ORGN
USA

PT

Cust Part #: 27105

WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE APPROPRIATE SPECIFICATION

R. H. Wales

SENIOR METALLURGIST - PRODUCT

Heat Number
a3h882

PO 3705
mo 41-236

major
metals

$1/2$ 15 157.2

СЕРТИФИКАТ КЪЛЪСТВА И КОЛЪКСТВА № 72156 12.05.2011
 CERTIFICATE OF QUALITY AND QUANTITY

Quality system was certified for compliance with ISO 9001:2003
ОАО "СЕРВЕСТАЛЬ" ЧЕРНОВЕЦЫ РОССИЯ, 161600, ЗО. МИРА
JSC "BEVERSTAL" CHEREPOVETS RUSSIA, 161600, 30. MIRA st
См. также в архиве документов
Inspection certificate BM10204/3.1

ПРЕДСТАВИТЕЛЬ
СЕРВЕИЗДАТЕЛЬ
ОАО "СВЕРСТАЛЬ", РОССИЯ
JSC "SVERSTAL", RUSSIA
ПРОДУКТОВЫЙ
Сектор, Адрес
"СВЕРСТАЛЬ ЭКОПОРТ (ПМХ)"
"SVERSTAL EXPORT (PMH)"
ШТАНШТАДТ ФИСХЕРСОН
STANSHADT FISHERSON

Start It	640014/672M	Part 2
Order It		Post It
Compact It	736/00186217-10109	
Cost It		
Cost/Transaction It	98532	
Profitability It		
Quantity/Transaction	3851/00/000	

R748

Страна происхождения 840 Соединенные Штаты
Country of origin UNITED STATES

DAIGNY 55448207
FERNANDEZ

Разрешение на выход на не лицензируются
Export Control на не SUBJECT OF LICENSE

Page No	Page No
1	1

Имя/Имя и Фамилия Name/Name and Surname	ОКПО WAY	Открыт Opened	Время Time	Дата Date
ИСТОРИЯ ГОРЯЧЕКАТАННОЙ СТАЛИ HOT ROLLING STEEL PLATES	97100 A87M A57M A57M-77 402413240 A57M A57M A57M-07 A87M A8/A8M-10		ЛИСТЫ PLATES	19

N /a /m No	Household Name Household Name	Household Name of Lot	Altered Green Category	Perimeter, in square Meters, m ² or ft ²	House Number Close By	Altered Perimeter, in feet Meters calculated, kg/ft By/ft ² or m ² Close By
101084		8771	CO(345) Type 2	12.70x24.81x6.08 0.8x0.8x2.0	15	23160 B1010

СТАЛЬ ВОСН. НЕПРЕРЫВНАЯ РАЗЛИВКА. ОБОИЩАЮЩИЕ ПОСЛЕД. ГОРЯЧ.
CONTINUOUS CASTING PLANT. Defining conversion: ABROLLOD

Кривая ОДР 54147
Файл 15

1805 ЛКСТА РАСЧЕТНЫЙ, КТРЕИППОЭИОНТ CALCULATION PLATE КОЛВУ 13441430

ВЕС МЕТАЛЛОПРОДАТА СПРЕДЕЛЕН РАКЕТЕНУПЪИТЕМ - STEEL FLAT PRODUCT WEIGHT HAS BEEN CALCULATED

Указанный в заголовке ДОКУМЕНТА товар соответствует по качеству требованиям, техническим условиям и спецификации и может быть отправлен за границу. It is hereby certified that the quality of goods mentioned in this shipping DOCUMENT is in conformity with standards and specifications, and the goods may be exported.

Показатели качества товара **Quality Characteristics of Goods**

Chemical Composition													
Na ₂ O	Ca	Si	Mg	P	S	Cl	K	Cr	Al	Fe	Mn	Ni	Cu
%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	20	28	107	18	8	7	6	12	3.4	0.6	2.2	2	

Результаты испытаний Test Results

Ha n	Prak KROKOSTA Tunalla HROST KATA/HRA	Prak KROKOSTA Yali KATA/HRA	Yali KROKOSTA Ela KATA/HRA KATA/HRA
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Приучения

Note:

Цвета маркировки: // белый // синий
Солнечный: // белый // синий

Colony Marking: 11 White 126
Mariposa: 84 VANANIAN

Marking: DAYAN
NI7719

Дата вильвчы ОУК (імяно чала) 12.05.2011 18:12:14

Подпись,
Signature



СРЕДН (711) 3860 1111

المستخرج من

SSAB

1770 Bill Sharp Boulevard, Muscatine, IA 52761-9412

Test Certificate

Form TC1: Revision 1: Date 31 Oct 2000

Customer P.O.No.:03043520

Mill Order No. 41-36180-17

Product Description: ASTM A572-50M345(70)/A709-50M345(11)

0.12% MIN. C, 0.10% MAX. SI

Shipping Manifest: MR197077
Ship Date: 06 May 13
Cert No: 061384837
Cert Date: 06 May 13 (Page 1 of 1)

Size: 0.750 X 96.00 X 240.0 (IN)

Tested Pieces:

Heat id	Piece Id	Tested Thickness	Tensiles:										Charpy Impact Tests									
			Tst Loc	YS (KSI)	UTS (KSI)	%RA	Elong % 2in 8in	Tst Dir	Average Hardness	Abs. Energy (FT-LB) 1 2 3 Avg	% Shear 1 2 3 Avg	Tst Tmp	Tst Dir	Tst Siz (mm)	BDWTT Tmp %Shr							
A3D221	C46	0.750 (DISCRT)	L 55	75	73	30	T				1	2	3	Avg	1	2	3	Avg				
A3D221	C49	0.750 (DISCRT)	L 54	73			19	T														

Heat Id

A3D221

C

Mn

P

S

Si

Tot Al

Cu

Ni

Cr

Mo

Co

V

Ti

Chemical Analysis

15

1.16

0.012

0.005

0.02

0.033

0.28

0.14

0.09

0.04

0.001

0.035

0.006

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MERCUY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT
MTR EN 10204:2004 INSPECTION CERTIFICATE 3.1 COMPLIANT
100% MELTED AND MANUFACTURED IN THE USA.
PRODUCTS SHIPPED:
A3D221
C47
PECS: 4, WGT: 13684

ORGN
USA

Cust Part #: 19269

WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE APPROPRIATE SPECIFICATION

B. H. Wales
SENIOR METALLURGIST - PRODUCT

SPS Coil Processing Tulsa
5275 Bird Creek Ave.
Port of Catoosa, OK 74015



METALLURGICAL TEST REPORT

PAGE 6 of 8
DATE 07/22/2013
TIME 13:20:38
USER GIANGRER

S
O
L
D
T
O

16105
Pacific Steel & Recycling
PO Box 1549
Great Falls MT 59403

S
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I
P
T
O

16105
Pacific Steel & Recycling-Will Call
5275 Bird Creek
Great Falls MT 59403

Order	Material No.	Description	Quantity	Weight	Customer Part	Customer PO	Ship Date
1558632-0060	801072240TM	10GA 72 X 240 A1011-CS-TYB TEMPERED	20,000	13,500.000		2022209	07/22/2013

Heat No. A306489
Batch 0002484783
Carbon 0.0600
Manganese 0.3600

Vendor SEVERSTAL COLUMBUS
10 EA
Sulphur 0.0010
Silicon 0.0400
Nickel 0.0500

Chemical Analysis
DOMESTIC
Chromium 0.0500
Molybdenum 0.0100
Boron 0.0002

MILL SEVERSTAL COLUMBUS
Copper 0.1600
Aluminum 0.0290
Titanium 0.0020

Method and Manufactured in the USA
Vanadium 0.0010
Columbium 0.0020
Nitrogen 0.0064
Tin 0.0070

MILL Coil No. A306489-05

Tensile

Yield

Elong

Redw

Grain

Charpy

Charpy Dr

Charpy Sz

Temperature

Olsen

Mechanical/ Physical Properties

Heat No. A306489
Batch 0002484800
Carbon 0.0600
Manganese 0.3600

Vendor SEVERSTAL COLUMBUS
10 EA
Sulphur 0.0010
Silicon 0.0400
Nickel 0.0500

Chemical Analysis
DOMESTIC
Chromium 0.0500
Molybdenum 0.0100
Boron 0.0002

MILL SEVERSTAL COLUMBUS
Copper 0.1600
Aluminum 0.0290
Titanium 0.0020

Method and Manufactured in the USA
Vanadium 0.0010
Columbium 0.0020
Nitrogen 0.0064
Tin 0.0070

MILL Coil No. A306489-05

Tensile

Yield

Elong

Redw

Grain

Charpy

Charpy Dr

Charpy Sz

Temperature

Olsen

Mechanical/ Physical Properties

SSAB

Test Certificate

1770 Bill Sharp Boulevard, Muscatine, IA 52761-9412

Form TC1: Revision 1: Date 31 Oct 2000

Customer:
NORFOLK IRON & METAL
3000 VICTORY RD
P.O. BOX 1129
NORFOLK
NE 68701

Customer P.O.No.: 03043491
Product Description: ASTM A36(09)/A709(11)SSASME SA36(0A11)
0.12% MIN C, 0.10% MAX SI, 0.80-1.20% MN
Size: 0.250 X 96.00 X 240.0 (IN)

Ship Date: 26 Apr 13
Cert Date: 26 Apr 13
Shipping Manifest: MFR196367
Cert No: 06138309
(Page 1 of 1)

Heat			Tensile:			Charpy Impact Tests									
Heat Id	Place	Tested Thickness	Tst Loc	YS (KSI)	UTS (KSI)	%RA	Elong %	Tst Dir	Average Hardness	Abs. Energy(FTLB)	%Shear	Tst Temp	Tst Dir	Tst Siz (mm)	BDWTT Temp %Snr
B3D683	B36	0.244 (DISCRT)	L 52	70	88	29	34	T		1	2. 3 Avg				
B3D683	B39	0.430 (DISCRT)	L 41												

Heat																Chemical Analysis																			
Id																C	Mn	P	S	Si	Total	Cu	NI	Cr	Mo	Co	V	TI	B	N					
B3D683																15	85	.012	.006	.04	.032	.33	.17	.11	.05	.001	.004	.007	.0007	.0090					
																																ORGN	USA		

MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT.
MTR EN 10204:2004 INSPECTION CERTIFICATE 3.1 COMPLIANT
100% MELTED AND MANUFACTURED IN THE USA.
PRODUCTS SHIPPED:
B36 PCS: 21, WGT: 34446
B3D683 B37 PCS: 3, WGT: 4921

Cust Part #: 01794
WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION
B. H. Wales
SENIOR METALLURGIST - PRODUCT

SSAB

St Paul, MN 55164-0303

Test Certificate

Form TC1: Revision 1: Date 31 Oct 2000

Customer:
PACIFIC STEEL
1401 3RD ST. NW
BOX 1549 ATTN: 833406
GREAT FALLS
MT 59403

Customer P.O. No. 2022206
Product Description: ASTM A3609/A709(1)36/ASME SA36(10417)
AASHTO M270(0)36

Mill Order No. 41-369634-01
Shipping Manifest: PT089210
Ship Date: 22 Jul 13
Cert No: 04161330
Cert Date: 22 Jul 13 (Page 1 of 1)

Size: 0.188 X 96.00 X 240.0 (IN)

Heat		Tested Pieces:		Tensiles:		Charpy Impact Tests:	
Heat Id	Piece Id	Tested Thickness	Test Loc	YS (KSI)	UTS (KSI)	%RA	Elong %
B3E630	0469	0.192 (T.L.C)	L 52	65	65	28	29
B3E630	0471	0.192 (T.L.C)	L 57	65	67	26	26
B3F548	0140	0.192 (T.L.C)	L 59	65	70	33	21
B3F548	0178	0.192 (T.L.C)	L 52	67	67	22	22
			C 47	65		29	29

Id	Chemical Analysis															
	C	Mn	P	S	Si	Total Cu	Ni	Cr	Mo	Cb	V	Ti	B	N		
B3E630	.16	.36	.012	.003	.04	.029	.30	.14	.09	.04	.001	.004	.006	.0001	.0072	ORGN
B3F548	.15	.84	.012	.002	.04	.030	.26	.14	.09	.03	.001	.003	.007	.0001	.0072	USA
MERCURY IS NOT A MEMBERSHIP REQUIREMENT																
																USA

MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT MATERIAL MARKED WITH AN ASTERISK IS PRODUCED FROM COIL 100% MELTED AND MANUFACTURED IN THE U.S.A. PRODUCTS SHIPPED: 0171

* B3F548 PCES: 3, WGT: 3685 * B3E630 0534 PCES: 5, WGT: 6142

Cust Part #: _____

WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH, AND MEETS THE REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION

Checked by: Chad Faltaysek



Test Certificate

St. Paul, MN 55164-0303

Form TC1: Revision 1: Date 31 Oct 2000

Customer:

PACIFIC STEEL
1401 3RD ST. NW
BOX 1549 AITN: 833406
GREAT FALLS
MT 59403

Customer P.O.No.:2022206

Mill Order No. 41-369634-02

Shipping Manifest: PT089210

Product Description: ASTM A36(08)/A709(11)/36/ASME SA36(10A11)

AASHTO M270(01)36

Ship Date: 22 Jul 13
Cert Date: 22 Jul 13
Cert No: 041161331
(Page 1 of 1)

Tested Pieces:

Size: 0.250 X 96.00 X 240.0 (IN)

Tensiles:

Charpy Impact Tests

Heat Id	Piece Id	Tested Thickness	Tst Loc	YS (KSI)	UTS (KSI)	%RA	Elong %	Tst Dir	Average Hardness	Abs. Energy	Charpy Impact Tests	Tst Temp	Tst Dir	Tst Siz (mm)	BDWTT Temp %Shr
A3E199	0857	0.254 (T.L.C)	L 64	75	74	26	23	T							
A3E199	0862	0.254 (T.L.C)	L 58	73	72	22	22	T							
A3E207	0877	0.254 (T.L.C)	L 64	76	74	29	25	T							

Chemical Analysis

Heat Id	C	Mn	P	S	SI	Total Cu	NI	Cr	Mo	Co	V	TI	B	N	ORGN
A3E199	.16	.84	.013	.007	.04	.031	.29	.14	.09	.05	.002	.004	.006	.0086	USA
A3E207	.16	.84	.012	.001	.04	.024	.37	.15	.14	.04	.001	.003	.006	.0076	USA

MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT
MATERIAL MARKED WITH AN ASTERISK IS PRODUCED FROM COIL
100% MELTED AND MANUFACTURED IN THE U.S.A.
PRODUCTS SHIPPED:

* A3E207

0877

PCES: 9, WGT: 14702

* A3E199

0860

PCES: 3, WGT: 4901

(7)

Cust Part #:

WE HEREBY CERTIFY THAT THIS MATERIAL WAS

TESTED IN ACCORDANCE WITH, AND MEETS THE

REQUIREMENTS OF, THE APPROPRIATE SPECIFICATION

Chad Falleysek

CHECKED BY

CERTIFICATE OF CONFORMANCE

*RATNER STEEL SUPPLY COMPANY
2500 WEST COUNTY ROAD B
ROSEVILLE MN 55113
1-651-631-8515

10/17/13

Page# 1

TO:

HIGHLAND PROJECTS LLC
PO BOX 31492
BILLINGS, MT 59107

SHIP TO:

HIGHLAND PROJECTS
PO BOX 31492
301 ORCHARD LANE
BILLINGS, MT 59107

SIZE: 3/16 X 60.00 X 452.00
GRADE: HOT ROLLED - CUT EDGE
ASTM A36

Bill/Ladng# 062574 B/L Date 10/17/13 Sales Ord# 845723 01
Cust. P/O# 3611

Tag# 795388	01	Heat# 8054P3	MasterTag# 235504A	01
C : .19		Mn: .79 P : .018	S : .008 Al: .023	Si: .020
Ti: .0001		Mo: .00	Cu: .04 V : .000	Cr: .02
				Ni: .02
		Nb: .000		
		Olson: A36	Tens: 70.0	Yld: 48.0 Elng: 29
Tag# 795391	01	Heat# 8054P3	MasterTag# 235504A	01
C : .19		Mn: .79 P : .018	S : .008 Al: .023	Si: .020
Ti: .0001		Mo: .00	Cu: .04 V : .000	Cr: .02
				Ni: .02
		Nb: .000		
		Olson: A36	Tens: 70.0	Yld: 48.0 Elng: 29
Tag# 795392	01	Heat# 8054P3	MasterTag# 235504A	01
C : .19		Mn: .79 P : .018	S : .008 Al: .023	Si: .020
Ti: .0001		Mo: .00	Cu: .04 V : .000	Cr: .02
				Ni: .02
		Nb: .000		
		Olson: A36	Tens: 70.0	Yld: 48.0 Elng: 29
Tag# 795393	01	Heat# 8054P3	MasterTag# 235504A	01
C : .19		Mn: .79 P : .018	S : .008 Al: .023	Si: .020
Ti: .0001		Mo: .00	Cu: .04 V : .000	Cr: .02
				Ni: .02
		Nb: .000		
		Olson: A36	Tens: 70.0	Yld: 48.0 Elng: 29
Tag# 795394	01	Heat# 8054P3	MasterTag# 235504A	01
C : .19		Mn: .79 P : .018	S : .008 Al: .023	Si: .020
Ti: .0001		Mo: .00	Cu: .04 V : .000	Cr: .02
				Ni: .02
		Nb: .000		
		Olson: A36	Tens: 70.0	Yld: 48.0 Elng: 29

Continued...

CERTIFICATE OF CONFORMANCE

*RATNER STEEL SUPPLY COMPANY
2500 WEST COUNTY ROAD B
ROSEVILLE MN 55113
1-651-631-8515

10/17/13

Page# 1

TO:
HIGHLAND PROJECTS LLC
PO BOX 31492
BILLINGS, MT 59107

SHIP TO:
HIGHLAND PROJECTS
PO BOX 31492
301 ORCHARD LANE
BILLINGS, MT 59107

SIZE: 3/16 X 60.00 X 452.00
GRADE: HOT ROLLED - CUT EDGE
ASTM A36

Bill/Lading# 062614 B/L Date 10/17/13 Sales Ord# 845723 02
Cust. P/O# 3611

Tag# 795211 01 Heat# 9656P3 MasterTag# 236674A 01
C : .19 Mn: .80 P : .012 S : .008 Al: .027 Si: .020
Ti: .001 Mo: .00 Cu: .04 V : .000 Cr: .03
Ni: .01
Nb: .000
Olsn: A36 Tens: 70.0 Yld: 48.0 Elng: 29

Tag# 795212 01 Heat# 9656P3 MasterTag# 236674A 01
C : .19 Mn: .80 P : .012 S : .008 Al: .027 Si: .020
Ti: .001 Mo: .00 Cu: .04 V : .000 Cr: .03
Ni: .01
Nb: .000
Olsn: A36 Tens: 70.0 Yld: 48.0 Elng: 29

Tag# 795214 01 Heat# 9656P3 MasterTag# 236674A 01
C : .19 Mn: .80 P : .012 S : .008 Al: .027 Si: .020
Ti: .001 Mo: .00 Cu: .04 V : .000 Cr: .03
Ni: .01
Nb: .000
Olsn: A36 Tens: 70.0 Yld: 48.0 Elng: 29

Tag# 795217 01 Heat# 8059P3 MasterTag# 235627B 01
C : .20 Mn: .75 P : .017 S : .009 Al: .032 Si: .030
Ti: .002 Mo: .00 Cu: .03 V : .000 Cr: .02
Ni: .01
Nb: .000
Olsn: A36 Tens: 70.0 Yld: 50.0 Elng: 29

Tag# 795219 01 Heat# 8059P3 MasterTag# 235627B 01
C : .20 Mn: .75 P : .017 S : .009 Al: .032 Si: .030
Ti: .002 Mo: .00 Cu: .03 V : .000 Cr: .02
Ni: .01
Nb: .000
Olsn: A36 Tens: 70.0 Yld: 50.0 Elng: 29

Continued...

CERTIFICATE OF CONFORMANCE

*RATNER STEEL SUPPLY COMPANY
2500 WEST COUNTY ROAD B
ROSEVILLE MN 55113
1-651-631-8515

10/20/13

Page# 1

TO:
HIGHLAND PROJECTS LLC
PO BOX 31492
BILLINGS, MT 59107

SHIP TO:
HIGHLAND PROJECTS
PO BOX 31492
301 ORCHARD LANE
BILLINGS, MT 59107

SIZE: 3/16 X 60.00 X 452.00
GRADE: HOT ROLLED - CUT EDGE
ASTM A36

Bill/Invg# 062663 B/L Date 10/20/13 Sales Ordr: 845723 01
Cust. P/O#: 3611

Tag# 795213 01 Heat# 9656P3 MasterTag# 236674A 01
C : .19 Mn: .80 P : .012 S : .008 Al: .027 Si: .020
Ti: .001 Mo: .00 Cu: .04 V : .000 Cr: .03
Nb: .000 Ni: .01
Olsn: A36 Tens: 70.0 Yld: 48.0 Elng: 29

WE HEREBY CERTIFY THE ABOVE FIGURES ARE ACCURATELY STATED, MEET YOUR
MATERIAL REQUIREMENTS AND ARE TRACEABLE IN OUR RECORDS BACK TO THE
PRODUCER AND/OR AN ACCREDITED TEST LABORATORY.

.....
QUALITY ASSURANCE MANAGER

CERTIFICATE OF CONFORMANCE

*RATNER STEEL SUPPLY COMPANY
2500 WEST COUNTY ROAD B
ROSEVILLE MN 55113
1-651-631-8515

10/20/13

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TO: HIGHLAND PROJECTS LLC
PO BOX 31492
BILLINGS, MT 59107

SHIP TO: HIGHLAND PROJECTS
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301 ORCHARD LANE
BILLINGS, MT 59107

SIZE: 3/16 X 60.00 X 452.00
GRADE: HOT ROLLED - CUT EDGE
ASTM A36

Bill/Ladng# 062663 B/L Date 10/20/13 Sales Order: 845723 02
Cust. P/O#: 3611

Tag# 795411 01 Heat# 9656P3 MasterTag# 236567A 01
C : .19 Mn: .80 P : .012 S : .008 Al: .027 Si: .020
Ti: .001 Mo: .00 Cu: .04 V : .000 Cr: .03
Ni: .01
Nb: .000
Olsn: A36 Tens: 70.0 Yld: 48.0 Elng: 29

Tag# 795414 01 Heat# 9656P3 MasterTag# 236567A 01
C : .19 Mn: .80 P : .012 S : .008 Al: .027 Si: .020
Ti: .001 Mo: .00 Cu: .04 V : .000 Cr: .03
Ni: .01
Nb: .000
Olsn: A36 Tens: 70.0 Yld: 48.0 Elng: 29

Tag# 795418 01 Heat# 9656P3 MasterTag# 236567A 01
C : .19 Mn: .80 P : .012 S : .008 Al: .027 Si: .020
Ti: .001 Mo: .00 Cu: .04 V : .000 Cr: .03
Ni: .01
Nb: .000
Olsn: A36 Tens: 70.0 Yld: 48.0 Elng: 29

Tag# 795419 01 Heat# 9656P3 MasterTag# 236567A 01
C : .19 Mn: .80 P : .012 S : .008 Al: .027 Si: .020
Ti: .001 Mo: .00 Cu: .04 V : .000 Cr: .03
Ni: .01
Nb: .000
Olsn: A36 Tens: 70.0 Yld: 48.0 Elng: 29

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QUALITY ASSURANCE MANAGER

CERTIFICATE OF CONFORMANCE

*RATNER STEEL SUPPLY COMPANY
2500 WEST COUNTY ROAD B
ROSEVILLE MN 55113
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10/21/13

Page# 1

TO: HIGHLAND PROJECTS LLC
PO BOX 31492
BILLINGS, MT 59107

SHIP TO: HIGHLAND PROJECTS
PO BOX 31492
301 ORCHARD LANE
BILLINGS, MT 59107

SIZE: 3/16 X 60.00 X 452.00
GRADE: HOT ROLLED - CUT EDGE
ASTM A36

Bill/Ladng# 062674 B/L Date 10/21/13 Sales Ord# 845723 04
Cust. P/O# 3611

Tag# 795420 01 Heat# 9656P3 MasterTag# 236567A 01
C : .19 Mn: .80 P : .012 S : .008 Al: .027 Si: .020
Ti: .001 Mo: .00 Cu: .04 V : .000 Cr: .03
Ni: .01

Nb: .000
Olsn: A36 Tens: 70.0 Yld: 48.0 Elng: 29

Tag# 795822 01 Heat# 8060P3 MasterTag# 235620A 01
C : .21 Mn: .78 P : .016 S : .010 Al: .029 Si: .030
Ti: .001 Mo: .00 Cu: .03 V : .000 Cr: .02
Ni: .01

Nb: .000
Olsn: A36 Tens: 69.0 Yld: 47.0 Elng: 29

Tr 795823 01 Heat# 8060P3 MasterTag# 235620A 01
C : .21 Mn: .78 P : .016 S : .010 Al: .029 Si: .030
Ti: .001 Mo: .00 Cu: .03 V : .000 Cr: .02
Ni: .01

Nb: .000
Olsn: A36 Tens: 69.0 Yld: 47.0 Elng: 29

Tag# 795824 01 Heat# 8060P3 MasterTag# 235620A 01
C : .21 Mn: .78 P : .016 S : .010 Al: .029 Si: .030
Ti: .001 Mo: .00 Cu: .03 V : .000 Cr: .02
Ni: .01

Nb: .000
Olsn: A36 Tens: 69.0 Yld: 47.0 Elng: 29

Tag# 795825 01 Heat# 8060P3 MasterTag# 235620A 01
C : .21 Mn: .78 P : .016 S : .010 Al: .029 Si: .030
Ti: .001 Mo: .00 Cu: .03 V : .000 Cr: .02
Ni: .01

Nb: .000
Olsn: A36 Tens: 69.0 Yld: 47.0 Elng: 29

Tag# 795826 01 Heat# 8060P3 MasterTag# 235620A 01
C : .21 Mn: .78 P : .016 S : .010 Al: .029 Si: .030
Ti: .001 Mo: .00 Cu: .03 V : .000 Cr: .02

Continued...

CERTIFICATE OF CONFORMANCE

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10/21/13

Page# 2

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SHIP TO: HIGHLAND PROJECTS
PO BOX 31492
301 ORCHARD LANE
BILLINGS, MT 59107

SIZE: 3/16 X 60.00 X 452.00
GRADE: HOT ROLLED - CUT EDGE
ASTM A36

Bill/Ladng# 062674 B/L Date 10/21/13 Sales Ord# 845723 04
Cust. P/O# 3611

Nb: .000 Ni: .01
Olsn: A36 Tens: 69.0 Yld: 47.0 Elng: 29

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QUALITY ASSURANCE MANAGER