## RAM-0012



## Request for Approval of Material

Contract	8078			FA Number		SR Interst	ate 5	ate 2/8/11
Section	I-5 Columbia River	Bridge	(WA 0.3 to	OR MP 308.0)		Coun	ty WA and OR	states
Contracto	American Constr	uction C	Company, Inc		Subcontractor			
submittal	shall be complete it may be returned stance in comple	d for infe	ormation tha	t was omitted		at time of	For WSI	OOT Use Only
Bid Item No.	Material or Name and Location o Product/Type Manufacturer or Pi						PE/QPL Code	Hdqtr./QPL Code
	Telescoping Arm Assembly		Rainier Welding, Inc.			Special Provis	ons	
				d, WA 98053		Page 98	7	5
	Only for Unconfine	ed						
	Bubble Ring Syster	m	1					
3.04.02	TelescopingArr	n 6u	ide					
3.04.03	Telescoping A	cm_						
3.04.04	Hinge Plate							
					a r			
				×				
					. [			
Project Eng	11 11/	antG	reen 2	te   {	State Materials I Steve H	Ingineer ughes		Date 2-17-11
2. Accepta 3. Accepta 4. Accepta 5. Accepta 6. Accepta 7. Accepta	ance Criteria: Accordance Criteria: Mfg. ance Criteria: Cate ance Criteria: Sub ance Criteria: Only ance Criteria: Sub	eptance be Cert. of a alog Cuts mit Shop 'Approve mit Certifi	pased upon 'Sa Compliance for for 'Acceptanc Drawings for 'A ed for Shipmen cate of Materia	tisfactory' Test Re 'Acceptance' price e' prior to use of re Approval' prior to fet, 'WSDOT Inspends of the Projects of the Pr	et Engineer and eport for samples or to use of material abrication of material cted' or 'Fabrication of the Engineer Office atory for Approval	of materials to be al. Cut Approved  Prial. On Approved Deca	incorporated into	
10. Approv	al Withheld: Subn ral Withheld: aneous Acceptance Cri	157.1	es for prelimina	ry evaluation.		2		
	Notify and forw			hop drawin	gs to the Fa	brication In	spection o	ffice.
oject Eng Contract Region (	dineer Distribution tor Operations Engineer	☐ Sta	WWW.TISV egion Material ate Materials S 47365			laterials Engine neral File er		n g Inspection



Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Endkunde, Bestell-Nr. / Your cust., ord. no.:

Zentitzlan nech/ controd to ISO 9001, ISO/TS 15946, EN/AS 9100, ISO 14001, NADCAP

PANNIEN WEDDING

PANNIEN WEDDING

INVEL 28602

INVEL 23711

PARK BOB

3/6

WEBS 127

20

ER-4348-P

1011 0 24 27

1011 0 24 27

1011 0 24 27 85336910 03/6

Rev. 0 Selte / page: 1 von / of 2 Datum / date: 2010 07 20

R133210/ER-4348-P Bestell Nr. / order no: Auftraggeber / customer: 2010 04 27 Empire Resources Inc. Datum / date: 1 Parker Plaza Auftragsbeet, Nr. / order confirm. no.: FORT LEE NJ 07024 2010 04 28 Datum / date: USA Lieferschein Nr. / delivery note: 85336910 Warenempfänger / consignee: Datum / date: 2010 07 20 Empire Resources, INC Akkreditiv Nr. / letter of credit no.: 6901 Quad Avenue **BALTIMORE MD 21237-2403** USA

Produkt/product Bedingungen/terms Techn. Lieferbedingungen / fechn. spec .: Form / form: Plate, stretched AMS-QQ-A-250/11, QB.1997 Werkstoff / material: 6061 ASTM B 209 - 07 Zustand / temper: T651 Material meets also AMS 4027N, 07.2008, but not Dirn. / dim: [inch]: 0,500x48,50x144,50 Kundenartikel-Nr / customer article no.; marked ASTM 8 594 - 08 ANSI H35.2-2006 ASME SB 209, 2007 Sondervorschrift / special terms:

AB-Pos.	BNr/Los/Tellos .	Guss Nr.	Werkstori	Kollo packno.	Gewicht netto	* 1
06	44738/04/00	80/0066747/0	6061.1	61298900	46 4283,51 lbs	12
06	44738/05/00	80/0067078/0	6081.1	61298901	22 1761,464 lbs	5
06	44738/06/00	80/0067078/0	6051.1	612989012	25   1748,236 lbs	5

Guss Nr. / cast no.	AMAG designation						1			
BD/0086747/0	8061.1	.51	Fo	Cu	Mn	Ma	pr	NI	7,51	Yī
	actual	0,70	0,43	0,21	0,15	0,92	017	0,01	0,00	0,05
80/0067078/0	8061.1	SI	FÞ	Cu	Mn	Mg	Çr .	NI	Zn	TI
	actual	0,66	0.45	0,23	0,02	0,86	0,17	<0,01	0,13	0,02

AMAG rolling GmbH, Postfach 32, A-5282 Pancholen, Österreich — www.amag.gr AMAG rolling GmbH, P.O. Box 32, A-5282 Rancholen, Austria — www.amag.gr

M 2012



Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Zaranzieri nach / cortified to ISO 8001, ISO/TS 16049, EN/AS 9100, ISO 14001, NADGAP

85336910 03/6

Rev. 0

Salte / page: 2 von / of 2 Datum / date: 2010 07 20

BNr/Los Lot/No.	Zustand temper	Richtung direction			Rm [ksl]	Rp0.2 [ksl]	A2" [%]		
44738/04	T651	LT			46,7	43,1	13		
44738/04	T651	LT			47.0	43,2	13		
44738/04	T661	LT			48,8	42,9	13		
44738/04	T651	LT			46,8	43,1	13		
44738/04	T651	LT			46,8	42,9	14		
44738/05	T651	LT			46,7	43,4	13		
44738/05	T651	LT			46,7	43,2	13		
44738/05	T651	LT	4		47,4	43,2	11		
44738/05	T651	LT			47,1	43,8	11		
44738/05	T651	LT			47,0	43,5	13		
44738/06	T651	LT			47,0	43,7	13		
44738/06	T651	LT			46,7	43,2	13		
44738/06	T651	LJ'			47,4	44,1	13		
44738/06	T651	LT			47,3	.43,8	13	OLAN PROGRAMMA	
44738/06	T651	LT		-	47,3	43,2	12		

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht. We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werkssachverständiger /	E-Mail / e-mail	HE A THE THEFT WAS
factory specialist	E-Mail ( G-Mail	L. A. Tres. Matheway and France
Josef Klainpler	i.k.amoter@ameg.at	

Horstellerland: Osterreich / goods origin: The goods are of Austrian origin. Maschinell enteilt - Gültig ohne Unterschrift / Automated - yalid without being signed.

AMAG rolling GmbH, Postach 32, A-5282 Ranshofen, Österreich — www.anust.at AMAG rolling GmbH, P.O. Box 82, A-5282 Ranshofen, Austris — www.amaq.at

PITTSBURGH, PA

DAVENPORT WORKS

Ship From:

Invoice No. 1000253275-1 Alcoa No. Item

DE-53275-1

Customer Alcoa Item

ALASKAN COPPER & B G041107416R06

P.O. No./Govt Contract No. 10077445 Ln#: 1

2010-12-28 1195221 Ship Date

5519258 B.L. No.

00000

Kenion P. Young Quality Assurance Stanager Liter & young

Makesto Maphy
Circon of Nursificiaring Coveraged Works

ship To: ALASKAN COPPER & BRASS COMPANIES, I KENT, WA 98032 27402 7ZND AVE S ALASKAN COPPER AND BRASS

Item Description
0.25 IN TX (+.014 -0.000) X 48.5 IN W (+.375 0.000) X 144.5 IN LN (+.5 -0.0) CAT X 134100 (N) A/T 5061T651 TYPE 200 WROUGHT TOOLING PLATE MILL
FINISH. AMS4027 REV NANSIH35 2 REV 2009 EXC\_MRK ASME-SB209 REV 10 EXC\_MRK ASTMB209 REV 07
((MARKED)) KRAFT PAPER INTELLSAVED

1594 1418 531 1593 355 Weight NAX GROSS SXID WGT: 4500 LB QUAN TOL +/-40 % CQR D164055 REV 06 CUST REQ 10-12-27 \*\*\* W/E 11-01-01 \*\*\* Quantity 200 200 47118 47007 47007 47007 Inspector Clock Numbers

Notes for Lot: Alloy 6061 Chemical Composition 1651 Dir Long Transv. 207038 Min Max 42.0 KSI 0.8 0.40 35.0 TYS KS1 0.7 FB 7 0.40 0.15 0.15 10 LOG 1.2 0.35 C.25 0.8 0.04 ä CR XZ

TI Bach Total 0.15 0.05 0.15

Total Aleminum

REMAIN

Other Other

PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV M ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250\_L1 ORIGINAL REVISIO M DATED

Notes for CQR: D164055.6

265612 265614 265614

265612 265612 265577

207038

423752 ~

207038 123758

2654

47007

46

Package Ticket

Pot

CQR: D164055.6

-Specification Limits

SIA

TENSILE TEST VALUES IN MPA = 330, 330 YIELD TEST VALUES IN MPA = 294, 293.

H9844092

Chemical - OES SI RE CU MN MG CR ZN TI Actuals 0.64 0.4 0.25 0.06 1.0 0.19 0.04 0.02

Cast Wumber

Long Transv.

Lot: 207038

207038

Motes for Lot:

£23751

TENSILH TEST VALUES IN MEA = 325, 326 VIBID TEST VALUES IN MEA = 292, 292, 1000 #23751 - Mechanical, Physical, Metallography, Quantometer Results

No-> UTS TYS EL4D

Test XSI KSI PCT

T651 Long Transv. 2 47.2 42.3 14.9

47.3 42.4 15.2

CERTIFIED INSPECTION REPORT

Ship Front:

Alcoa No. Item

Invoice No. 1000253279-1

DS-53279-1

ALASKAN COPPER & B GO41107416R06 Alcoa Item

B.L. No. 5519258 Customer 00000

P.O. No / Govt Contract No. 2010-12-28 10077445 Ln#: 1

Renton P. Young Qualty Assurance Manager Kton & young Ship Date

Malcain Maryty
Director of Manufacturing Devenport Warks - Mechanical, Physical, Metallograpy, Quantometer Results (cont.)
- Mechanical, Physical, Metallography, Quantometer Results -----No-> DTS TYS EL4D
Test KSI KSI PCT
Fest KSI KSI PCT
47.8 42.6 15.6

Notes for Lot: 423758 TENSILE TEST VALUES IN MEA = 330, 328 YIELD TEST VALUES IN MDA = 293, 294.

Notes for Lot:

H9844092 Cast Number

Actuals Chemical - OES

0.64 0.4 0.25

ž

MG

B

NZ

0.06 1.0 0.19 0.04 0.02

Lot: 423752 V

Long Transv.

Test 2 No->

UTS KSI 48 48,2

KSI 43.1 42.9

PCT 14.9 15.3

Notes for Lot:

423752

H9844092

Cast Number

TENSILE TEST VALUES IN MPA = 331, 332 YIELD TEST VALUES IN MPA = 297, 296.

Chemical - OES SI PE CU MN MG CR Actuals 0.64 0.4 0.25 0.06 1.0 0.19

ZN TI 0.04 0.02

- Mechanical, Physical, Metallography, Quantometer Results

Cast Number H5844092

This material was melted in the United States or a Qualifying Country [REP DFARS 225.872.1(a)]; it was manufactured in the United States

All states with, and has been found to raced, the grace of the description and that samples training any parties shown on the food of this sheet
--

Alcoa Inc.

PITTSBURGH, PA DAVENPORT WORKS

Ship From:

Alcoa No. Item 1000253279-1

Customer ALASKAN COPPER & B G041107416R06 Alcoa Item

00000

DS-53279-1

Long Transv. Chemical - OES SI FE CU MA Actuals 0.64 0.4 0.25 0.06 Cheffy Assurance Manager Kin & your MG CR ZN TI 1.0 0.19 0.04 0.02 1195221 0 Ship Date B.L. No. 2010-12-28 5519258 P.O. No./Govt Contract No. 10077445 Ln#: 1

Lot: 423758 -

Dir



Phone:

(206) 343-0700

WATS:

(800) 835-4545

Fax:

(206) 343-1366

In State:

(800) 233-3660

3660 East Marginal Way South, P.O. Box 3625, Seattle, WA 98124

## **Certification of Compliance**

Sold to

RAINIER WELDING

19020 N.E. 84TH

REDMOND

WA 98053

Work Order: G2087

All W/O Certifications

Page: 1

**Additional Information** 

Customer Order: 2860-1 Order Date: 1/19/2011 Ordered By: BOB Salesman: RP

Seaport Steel certifies that Mill Certification documents for materials shipped on this work order have been verified

to comply with grade/specification requirements as listed below by material description and heat number.

A36 PL 3 X 96

30' 0"

Heat # 0504750

ערטעסע

the our Nature

スロロコス PLATE MILL

P.O.Box 279 Winton, NC 27986 (252) 356-3700

B/L No.: 269904

ATW 116052 Issuing Date: 08/16/2010

Specification: 3.0000" x 96.000" x 360.000"

Vehicle No:

Marking:

ASTM A36-08/ASTM A709 Grade 36-09a/AASHTO M270Grade 36/ASME SA36-03a 2009 Addenda AASHTO M270 36

Mill Test Report

SEATTLE, WA 98124

P.O. BOX 3625

Sold To:

Load No.: 271701

SEAPORT STEEL COMPANY

Our Order No.: 83561/4

Cust. Order No.: E32813

3660 EAST MARGINAL WAY SOUTH SEATTLE, WA 98134 Ship To: SEAPORT STEEL COMPANY

E92813

	Pcm	0.25		Mn Ave.	
-	80	0.36		Temp A	
	Sn	0.009		Size	
	m	0.0001		(%) shear	
	Ca	0.0016		Aye. s	
	z		mpacts	rar 3 shear a	
	=	0.001	harpy !		
	S	0.002	0	Sheer	
	>	0.004		ar 2	
1		0.019		(%) shear	
	Mo Al	0.01 0		DIr. 1	
	ņ	5 0.05		Elongation % in 8"	
	Z	0.05		Jon Ele	28
	3	0.16		Elongation 1	31.8
	S	0.17		(pst) Tensile	70,700
	S	0.003		Yield	40,000
	2	0.009	Tensile Test		
1	Mil	0.89 0.009	Tens	Pleces Tons Dir.	14.70 T
	2	0.18		Pleces	4
	Heat No	0504750		Plate Serial	0504750-07

We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the malarial manufacturer are in compliance with the applicable specifications, including customer specifications.

T. a. Daneto

T. A. Depretis, Metallurgist

08/16/2010 3:24:29 PM

Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast discrete plats as-rolled, unless Manufactured to fully killed practice by Electric Arc Furnace. Welding or weld repair was not performed on this material. otherwise noted in Specification.

Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Min/5)+((Cr+Mo+V)/5)+((Ou+H)/1/5)

Pen e C4(SESO+040ADD+(CAZD)+040D+(ADZO)+04015+(VII)+28
Mahed and manufactured in the USA, ISO 8001-2000 certified (RO08461) by SRI Ouality System Registrar (#0985-08), PED 97/23/EC 7/2 Annex 1, Para, 4.3 Compfant.
DN 50049.9.1.B/EN 10204.9.18(2004), DIN EN 10204.9.1(2005) compfant. For ABS grades only, Ouality Assurance certificate 06-MM PCA-389