

C090741

sapa: Sapa Industrial Extrusions
 1530 KIRBY LANE
 SPANISH FORK, UT
 84660-1349

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer
 ASA ALLOYS
 DIVISION OF CSM INC
 81 STEINWAY BLVD
 ETOWA COKE, - M9W 6H6
 Ship To Customer
 ASA ALLOYS
 20 CHALLENGER CRESCENT
 SHERWOOD PARK, AB - T8H 2R1

Certified Inspection Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1100658641	7	P031241.7	SAPA847877	1 of 3
			Cert Creation Date	Cert Print Date
			04-OCT-13	04-OCT-13

Quantity Shipped	Date Shipped	Item Description	Specification
2138 LB	04-OCT-13	ACC-U-LINE Extruded ACC-U-ROD 4.000 DIA +/-0.17	ASTMB221 REV 13 AMS-QQ-A-200/8 REV 1997 ASMESB221 REV 09 UNSA98861 REV SAEJ454 REV Mesta 6061-T6511H, 6061-T6511 REV
R/L	Item No.	SECT 300330 144.000 IN LN FIN.M-MILL	
469595	G03305760	W/F 14.778 F 1 CS 4 6061/T6511H	
Delivery Id	Item No. Rev	Marking CONTINUOUS;	
4474295	--		
Customer Part No.			
4AR			

Applicable Specifications, Revisions and Exceptions
 COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Legal Statement	Signature And Title
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.	<i>D. Wade Bishop</i> Wade Bishop Quality Control Manager
	04-OCT-13

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G14-PKG1473647	21546355	6	PCS	1077	1071
G14-PKG1476085	21553927	6	PCS	1078	1067

Composition Limits

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.80	---	0.70	0.15	0.40	---	0.15	0.80	1.20	0.04	0.35	---	0.25

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Alloy	Ti		Others Each		Others Total	
	Min	Max	Min	Max	Min	Max
6061	---	0.15	---	0.05	---	0.15

Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
S13092107	0.73	0.40	0.29	0.12	0.88	0.13	0.02	0.02	--	--
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
S13092805	0.77	0.42	0.31	0.10	0.98	0.14	0.07	0.03	--	--
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
S13092901	0.75	0.40	0.28	0.10	0.88	0.12	0.09	0.03	--	--

Mechanical Property - Test Limits

Test Temp	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6511H	21546355	1	52.7	52.7	49.5	49.5	15.0	15.0
			UTS - L		TYS - L		EL 4D-Long	
			KSI		KSI		PCT	
			---		---		---	
			UTS - L		TYS - L		EL 4D-Long	
			KSI		KSI		PCT	
			---		---		---	
Test Temp	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6511H	21553937	1	51.6	51.6	47.9	47.9	13.5	13.5
			UTS - L		TYS - L		EL 4D-Long	
			KSI		KSI		PCT	
			---		---		---	

Cert Notes

Material manufactured to T6511 specifications also meets T6 requirements.
All elements are represented in the chemical analysis section. The remainder is Aluminum.

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All sapa industrial extrusions produced at Sapa Industrial Extrusions comply with Directive 2011/65/EU (ROHS 2) with the exception of 6062 alloy.

In accordance with EN 10204, Test Report Type 2.2 and Certificate Type 3.1

Material produced in compliance to EN 10204 3.1

Melind and Manufactured in the USA

Made in USA