

C067149

S12102201

**sapa:** Sapa Industrial Extrusions  
1550 KIRBY LANE  
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SPANISH FORK, UT  
84660-1349

Sapa Extrusions Inc., a Subsidiary of Sapa AB

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

**Certified Inspection Report**

Sales Order Number		Line No.	Customer P/O	Cert Number	Page
1100528268		1	P028454-1	SAPA658061	Page 1 of 2
				Cert Creation Date	Cert Print Date
				28-OCT-12	28-OCT-12

Quantity Shipped	Date Shipped	Item Description	Specification
2142 LB	28-OCT-12	ACC-U-LINE Extruded ACC-U-ROD 4.000 DIA +/-0.017	ASTM B221 REV 12 AMS-QQ-A-200/8 REV ASMESB221 REV 09 UNSA96061 REV SAEJ454 REV Meets 6061-T6511H, 6061-T6511 REV
B/L 374840	Item No. G03305760	SECT 500330 144.000 IN LN FIN M-MILL	
Delivery Id 4370118	Item No. Rev	W/F 14.778 F 1 CS 4 6061/T6511H Marking CONTINUOUS;	
Customer Part No. 4ER+			

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**  
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.

Signature And Title  
*D. Wade Bishop*  
Wade Bishop  
Quality Control Manager  
28-OCT-12

**Quantities per Lot / Packages**

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G14-PKG1366404	21242112	6	PCS	1077	1071
G14-PKG1366405	21242112	6	PCS	1077	1071

**Composition Limits**

Alloy	Si		Fe		Co		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	Pb	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
S12102201	0.77	0.40	0.32	0.11	0.97	0.14	0.22	0.03	--	--

**Mechanical Property - Test Limits**

Test Type	UTS - L		TYS - L		EL 4D-Long	
	KSI		KSI		PCT	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value
			T6511R	21242112	1	50.3
					12.0	12.0

**Cert Notes**

Material manufactured to T6511 specifications also meets T6 requirements.  
 All elements are represented in the chemical analysis section. The remainder is Aluminum.  
 All alloys produced at Sapa Industrial Extrusions comply with 0.4% maximum lead per RoHS, with the exception of 6262 alloy  
 In accordance with EN 10204, Test Report Type 2.3 and Certificate Type 3.1  
 Material produced in compliance to EN 10204 3.1  
 Melted and Manufactured in the USA  
 Made in USA