

HT # 23023325



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

ENCORE METALS
DIV OF RELIANCE METALS CANADA
7470 VANTAGE WAY
ATTN: ACCOUNTS PAYABLE
DELTA, - V4G 1H1

Ship To Customer

ENCORE METALS
DIV OF RELIANCE METALS CANADA
7470 VANTAGE WAY
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DELTA, BC - V4G 1H1

Certified Test Report

Sales Order Number		Customer P/O	Cert Number	Page
1101331768	Line No. 1	P116920-873-1	SAPA2796620	Page 1 of 3
			Cert Creation Date	Cert Print Date
			12-JAN-18	07-NOV-18

Quantity Shipped	Date Shipped	Item Description	Specification
4258 LB	12-JAN-18	ACC-U-LINE Extruded ACC-U-ROD 8.000 DIA +/-030	ASTMB221 REV 14 AMS-QQ-A-200/8 REY A ASMESB221 REV 09 Meets 6061-T6511H, 6061-T6511 REV
B/L	Item No.	SECT 568740 144.000 IN LN FIN M-MILL W/F 59.112 F 1 CS 8 6061/T6511H	
895423	G03973584	Marking CONTINUOUS;	
Delivery Id	Item No. Rev		
4966557	--		
CustomerPart No.			
513201			

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.

Hydro Extrusion USA, LLC hereby certifies that the metal shipped under this report has been tested in accordance with the identified ASTM and/or ASME specifications and the results of the chemical analysis and mechanical properties tests are within the acceptable ranges of these specifications. Any product warranty is governed by the Extrusion North America Standard Terms and Conditions of Sale posted at www.hydroextrusions.com/termsconditions.

Signature And Title

Steven Tanner
Quality Manager

12-JAN-18

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G12-PKG3134781	23023325	2	PCS	1426	1420
G12-PKG3142500	23031566	2	PCS	1425	1419
G12-PKG3142506	23031566	2	PCS	1425	1419

Composition Limits

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	PCT (%)		PCT (%)		PCT (%)		PCT (%)		PCT (%)		PCT (%)		PCT (%)	
	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	
	PCT (%)		PCT (%)		PCT (%)	
	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
4041978	0.72	0.35	0.32	0.12	0.90	0.12	0.04	0.02	--	--
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
4042174	0.70	0.41	0.36	0.13	0.91	0.14	0.04	0.02	--	--
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
4042176	0.75	0.31	0.32	0.12	0.93	0.14	0.04	0.02	--	--
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
4042182	0.73	0.33	0.33	0.12	0.91	0.14	0.04	0.02	--	--
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
4042248	0.74	0.33	0.33	0.13	0.90	0.15	0.03	0.02	--	--
Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
4042250	0.75	0.40	0.33	0.12	0.94	0.13	0.05	0.02	--	--

Mechanical Property - Test Limits

Test Type			UTS - L		TYS - L		EL 4D-Long	
UOM			KSI		KSI		PCT	
# of Test			--		--		--	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6S11H	23023325	1	56.0	56.0	51.1	51.1	12.0	12.0



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Test Type			UTS - L		TYS - L		EL 4D-Long	
UOM			KSI		KSI		PCT	
# of Test			--		--		--	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6S11H	23031566	1	53.8	53.8	49.8	49.8	12.0	12.0

Notes

Products manufactured with a T6S11 temper also meet T6 temper requirements.
Yield strength has been determined by the 0.2% offset method
All mill finish alloys produced at Sapa Industrial Extrusions comply with Directive 2011/65/EU (RoHS 2) with the exception of 6262 alloy
In accordance with EN 10204 Inspection Certificate Type 3.1
Melted in the USA or Qualifying Countries (as defined in Defense Federal Acquisition Regulation Supplement (DFARS) Section 225.872-1)
Manufactured in the United States
Manufactured in the United States