

# Certified Inspection Report



Hydro Extrusion USA, LLC  
 1550 N. Hydro Way  
 --  
 SPANISH FORK, UT  
 84660-1349



<b>Cert Number</b>	<b>Page</b>
HYDRO3160150	Page 1 of 2
<b>Cert Creation Date</b>	<b>Cert Print Date</b>
16-NOV-19	01-MAR-21

<b>Sales Order Number</b>	<b>Line No.</b>	<b>Customer P/O</b>
1101591101	4	5400475259-R05-40

**Invoice To Customer**

THYSSENKRUPP MATERIALS CA LTD  
 COPPER & BRASS SALES  
 ACCOUNTS PAYABLE  
 P.O. BOX 5116  
 SOUTHFIELD, MI - 48086-5116

**Ship To Customer**

THYSSENKRUPP MATERIALS CA LTD  
 COPPER & BRASS SALES CANADA  
 9451 45 AVE NW  
 --  
 EDMONTON, AB - T6E 6B9

<b>Quantity Shipped</b>	<b>Date Shipped</b>	<b>Item Description</b>	<b>Specification</b>
1115 LB	16-NOV-19	ACC-U-LINE Extruded ACC-U-ROD 5.000 DIA +/-017	ASTM B221 REV 14 Table 1 Chemical Composition Limits Table 2 Mechanical Property Limits
<b>B/L</b>	<b>Item No.</b>	SECT 503296 144.000 IN LN FIN M-MILL	ASME SB 221 REV 17 Table 1 Chemical Composition Limits Table 2 Mechanical Properties Limits
1061043	G03305804	W/F 23.091 F 1 CS 5 6061/T6511H Marking CONTINUOUS;	AMS QQ-A-200/8 REV A
<b>Delivery Id</b>	<b>Item No. Rev</b>		
5152339	--		
<b>CustomerPart No.</b>			
ALRD00243			

**Applicable Specifications, Revisions and Exceptions**

For U.S. Government Sales (when applicable to extrusions): Items supplied are compliant with the Buy American Act DFARS 252.225-7001 Melted in the USA or a qualifying country, as identified in the Buy American Act (DFARS 252.225-7001)  
 G12\_EN10204

For U.S. Government Sales (when applicable to extrusions):  
 Items supplied are compliant with the Buy American Act DFARS 252.225-7001  
 Melted in the USA or a qualifying country, as identified in the Buy American Act (DFARS 252.225-7001)

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 extrusions covered in this report are within the acceptable ranges of the sections or the specification tables, excluding footnotes, identified herein. Chemical composition may be based on results provided by external billet suppliers. Further information on processing, testing including ASTM B557, and inspection is available at [www.hydro.com/technicalspecificationsENA](http://www.hydro.com/technicalspecificationsENA). Sales are governed by the Extrusion North America Standard Terms and Conditions of Sale available at [www.hydro.com/termsconditionsENA](http://www.hydro.com/termsconditionsENA), unless otherwise mutually agreed in writing.

**Signature And Title**



Steven Tanner  
 Quality Manager

01-MAR-21

**Quantities per Lot / Packages**

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G14-PKG2242184	23769266	4	PCS	1121	1115

*ANS*

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<b>Sales Order Number</b> 1101591101	<b>Line No.</b> 4	<b>Customer P/O</b> 5400475259-R05-40	<b>Cert Number</b> HYDRO3160150
<b>Cert Creation Date</b> 16-NOV-19			<b>Page</b> 2 of 2
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### Composition Limits

Alloy	Alloy		Si		Fe		Cu		Mn		Mg		Cr	
	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
Alloy	Zn		Ti		Others Each		Others Total							
	PCT (%)		PCT (%)		PCT (%)		PCT (%)							
	Min	Max	Min	Max	Min	Max	Min	Max						
6061	---	0.25	---	0.15	---	0.05	---	0.15						

### Composition Results

Heat / Cast	Alloy	Country of Melt	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
S19110708	--	US	0.77	0.41	0.29	0.12	0.90	0.15	0.13	0.03	--	--
Heat / Cast	Alloy	Country of Melt	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
S19110710	--	US	0.73	0.39	0.29	0.12	0.88	0.14	0.08	0.03	--	--

### Mechanical Property - Test Limits

Test Type			UTS - L		TYS - L		EL 4D-Long	
UOM			KSI		KSI		PCT	
# of Tests			--		--		--	
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6511H	23769266	1	58.3	58.3	50.4	50.4	14.0	14.0

**Notes**  
 Mercury is not a normal contaminant in aluminum alloys and we do not knowingly use it in the manufacture of our goods.  
 Extrusions produced to T6511 temper also meet T6 temper requirements  
 Extruded in the USA  
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