



562-692-5911  
562-695-2323 (fax)  
la.sales@mcmaster.com



Certificate

<b>Purchase Order</b> PO26121665	<b>Order Date</b> 3/25/2026	<b>Placed By</b> Christopher Berger	<b>McMaster-Carr Number</b> 4818975-01	<b>Number of Certificates</b> 1
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Line	Product	Ordered	Status	Certificate
11	5679N155 Multipurpose 6061 Aluminum Bar, 2" Thick x 2-1/4" Wide x 1/2 Foot Long	1 each	1 each delivers March 26	292-5088



SO: 795184, LINE #1  
 HEAT #: 25591874  
 PO: FA-97882510

MCMaster-CARR SUPPLY CO  
 162.0002.25006.00

2.000" X 2.250" X 6.000 ALUM RECT 6061T6511H EXT MFQ

**Certified Inspection Report**



Hydro Extrusion USA, LLC  
 53 POTTSVILLE STREET  
 CRESSONA, PA  
 17929-0187



Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1102276421	4	P36080-4	HYDRO4083758	1 of 2
			Cert Creation Date	Cert Print Date
			10-AUG-25	10-AUG-25

**Invoice To Customer**  
 HOWARD PRECISION METALS INC  
 PO BOX 240127  
 8058 N 87TH STREET  
 MILWAUKEE, WI - 53224

**Ship To Customer**  
 HOWARD PRECISION METALS INC  
 8058 N 87TH STREET  
 MILWAUKEE, WI - 53224

Quantity Shipped	Unit	Date Shipped	Item No.	Item Description	Specification
1180	LB	10-AUG-25		ACC-U-LINE Extended ACC-U-BAR + 2.000 TK x 2.250 W TK TOL +.024/-000 W.TOL +.024/-000 SECT 5881 50 L77.000 IN LN FIN M-MILL WF 5.352 F2 CS 3.01 6061/76511H	ASTM B221 REV 21 Table 1 Chemical Composition Limits Table 2 Mechanical Properties Limits AMS QQ-A-200/8 REV A
			1505886	G031102117	
			5653518	Item No. Rev	
			E16M2.0002.250	Customer Part No.	
				Marking CONTINUOUS;	

**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  
 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 of 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/technicalspecifications/ENAA\\_Sales](http://www.hydro.com/technicalspecifications/ENAA_Sales) are governed by the Extrusion North America Standard Terms and Conditions of Sale available at [www.hydro.com/termsconditions/ENAA](http://www.hydro.com/termsconditions/ENAA), unless otherwise mutually agreed in writing.

Signature and Title  
  
 Nyle Wallick  
 Lab Manager  
 10-AUG-25

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G12-PKG4762459	25591874	18	PCS	1186	1180



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

**Composition Results**

Heat / Cast	Country of Melt	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
5066196	US	0.77	0.27	0.30	0.08	0.88	0.04	0.04	0.02	---	---

**Mechanical Property - Test Limits**

Test Temper	Lot Number	# of Tests	UTS - L		TYS - L		EL-4D-Long	
			MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
T6511H	25591874	1	54.7	54.7	51.4	51.4	14.5	14.5

**Notes**

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