



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



Certificate

Purchase Order PO26131681	Order Date 3/31/2026	Placed By Christopher Berger	McMaster-Carr Number 5104384-02	Number of Certificates 1
-------------------------------------	--------------------------------	---	---	------------------------------------

Line	Product	Ordered	Status	Certificate
8	9008K86 Multipurpose 6061 Aluminum Bar, 1-1/8" Thick x 1-1/8" Wide x 8 Feet Long	1 each	1 each delivers April 1	273-2050



SO: 786591, LINE #1
 HEAT #: 25455490
 PO: GH-89922500

MCMaster-CARR SUPPLY CO
 121.12596.00

1.125" SQ X 96.000 6061T6511H EXT MANIFOLD QUALITY

Certified Inspection Report



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



Cert Number	Page			
HYDRO4012209	Page 1 of 2			
Sales Order Number	Line No.	Customer P/O	Cert Creation Date	Cert Print Date
1102226005	12	P35668-3	05-MAR-25	05-MAR-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	Date Shipped	Item Description	Specification
902 LB	05-MAR-25	ACC-U-LINE Extruded ACC-U-BAR +	ASTM B221 REV 21 Table 1 Chemical Composition Limits Table 2 Mechanical Property Limits ASME SB 221 REV 23 Table 1 Chemical Composition Limits Table 2 Mechanical Properties Limits AMS QQ-A-200/8 REV A
B/L	Item No.	1.125 TK x 1.125 W TK TOL +.012/-.000 W TOL +.012/-.000	
1473797	G031100739	SECT 567750	
Delivery Id	Item No. Rev	146 IN LN FIN M-MILL W/F 1.504 F 3 CS 1.59 6061/T6511H	
5619704	--		
CustomerPart No.			
E12M1.1256			

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)
 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. Sales are governed by the Extrusion North America Standard Terms and Conditions of Sale available at www.hydro.com/termsconditionsENA, unless otherwise mutually agreed in writing.

Signature And Title

Steven Tanner
 Quality Manager

05-MAR-25

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight	
				Gross	Net
G14-PKG2796297	25455490	49	PCS	908	902



SO: 786591, LINE #1
 HEAT #: 25455490
 PO: GH-89922500

MCMaster-CARR SUPPLY CO
 121.12596.00

1.125" SQ X 96.000 6061T6511H EXT MANIFOLD QUALITY

Certified Inspection Report



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



Cert Number	Page
HYDRO4012209	Page 2 of 2
Cert Creation Date	Cert Print Date
05-MAR-25	05-MAR-25

Sales Order Number	Line No.	Customer P/O
1102226005	12	P35668-3

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
S25030104	--	US	0.72	0.41	0.30	0.06	0.92	0.06	0.08	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
T6511H	25455490	1	44.4	44.4	40.2	40.2	17.5	17.5

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
 --