CERTIFICATION REPORT

CUSTOMER: STONE TUCKER INSTRUMENTS DATE: 12/19/18

SERIAL NO: 51112 ITEM: 5-STEP BLOCK, INCH PO NO: 018121802

MATERIAL: 7075-T6 ALUMINUM, ANODIZED LOT NO: 20199435

APPLICABLE SPECIFICATION: ASTM E797 FIG. X1.2, U.S. CUSTOMARY BLOCK, INCHES

,

MEASURING TECHNIQUE USED:

REPLICATION

NIST TRACEABLE EQUIPMENT USED /TEST NO:

 REPLICATION
 VIDEO MEASUREMENT SYS
 821/262115-99

 DIRECT MEASUREMENT
 DIAL INDICATOR
 683/287532-16

 OTHER
 MICROMETER
 683/287532-16

 XX
 GAGE BLOCKS
 683/287532-16

Manufactured in accordance with Quality Assurance Program Revision 3 dated 8/31/17 that complies with MIL-Q-9858A, 10CFR50 App B, ANSI N45.2, ASME Sec III Div 1 and MIL-I-45208A.

MATERIAL TEST REPORT ATTACHED

| STEP No. | STEP THICKNESS ± 0.001" | | | | | |
|----------|-------------------------|--|--|--|--|--|
| 1 | 0.100 | | | | | |
| 2 | 0.200 | | | | | |
| 3 | 0.300 | | | | | |
| 4 | 0.400 | | | | | |
| 5 | 0.500 | | | | | |

DIMENSIONS IN INCHES

IT IS CERTIFIED THAT THIS REFERENCE STANDARD HAS BEEN MANUFACTURED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND INSPECTED WITH INSTRUMENTS CALIBRATED IAW MIL-STD-45662 (LATEST REV.), ISO 10012-1 AND ANSI/NCSL Z540-1 USING MASTER GAGE BLOCKS AND MICRORULE MASTER SCALES DIRECTLY TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST).

AUTHORIZED SIGNATURE

Letterman

PHILIP R. HERMAN, QA MANAGER



REFERENCE T STANDARDS

6021 EASTON ROAD, PIPERSVILLE, PA 18947 USA T: 267-203-1600 · F: 267-203-1601 · www.phtool.com

This Certification Report shall not be reproduced except in full, without the written approval of PH TOOL



FABRICATED PRODUCTS

Tennalum 309 Industrial Drive Jackson, TN 38301 731-423-2811



CERTIFIED TEST REPORT

http://Online.KajserAluminum.com

1.0" x 1.5" 7075-T6 AI Lot# 20199435 Kaiser

Kaiser Alro

CUSTOMER PO NUMBER: CUSTOMER PART NUMBER: PRODUCT DESCRIPTION: PH PO 9077 PV11547295-1 21984100 Cold Finished Rectangle KAISER ORDER NUMBER: LINE ITEM: SHIP DATE: ALLOY: 707082 10/19/2015 7075 T651 WEIGHT SHIPPED: QUANTITY: B/L NUMBER: DIAM/DAF/THKNS: WIDTH: LENGTH: 2440 lbs. 112 pcs. 38848 1.000 in. 1.500 in. 144.0 in. SHIP TO: SOLD TO:

Airo Steel Corp 5859 Airo Park Drive Potterville, MI 48876 USA

Alro Steel Corp P O Box 927

Jackson, MI 49204 USA

Test Code: 1000 AC

Actual Physical Properties

| Lot Number | LONG. | LONG. | LONG. |
|------------|-------|-------|--------|
| 200 Humber | | | |
| | UTS | YTS | ELONG. |
| | ksi | ksi | 8 |
| 20199435 | 82.7 | 77.2 | 15.5 |
| | 83.0 | 77.2 | 16.0 |

Chemical Composition, WT. % (Aluminum Remainder)

| | Si | Fe | Cu | Mn | Mg | Çr | Zn | Ti | OTHERS EACH | OTHERS TOTAL | Lot |
|----------------------|----|------|----|------|-----|----|-----|----|----------------|-----------------|----------|
| Actual Max Min | | 0.23 | | 0.30 | 2.9 | | 6.1 | | 0.05 | 0.15 | 20199435 |

Specifications

Standard: ISO 9001, ASTMB211-12, AMS4123H, AMS-QQ-A-225/9A AMS4122L

ALRO STEEL/METAL

RECEIVED

OCT 2-1 2015

ALRO STEEL PV

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Spoker Remaky

Plant Serial: 222163 Kaiser Order Number: 707082

Page 1 of 2

Line Item: 1



Tennalum 309 Industrial Drive Jackson, TN 38301 731-423-2811



CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

Miscellaneous Notes

Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100C:2009 The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of (cold finished) T6 temper, AMS 4122L and QQ-A-225/9E (CANCELLED). This material is RoHS 2 - 2011/65/EU compliant.

PH TOOL

This material used for

Standard no. 51112 Date

QA Approval

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 222163 Kaiser Order Number: 707082

Page 2 of 2

Line Item: 1



Certification Report

Positive Material Identification (PMI)



6021 Easton Road, Pipersville, PA 18947 TEL: 267-203-1600 FAX: 267-203-1601 EMAIL: Info@phtool.com

Result:

Exact Match: 7075-T6 Aluminum

Heat/Lot #: 20199435

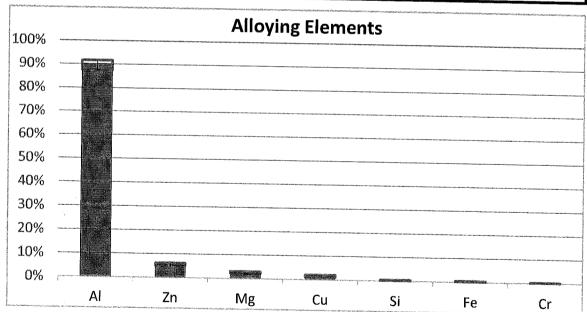
Test Date: 1/11/2016

Equipment: Olympus Delta Professional XRF Analyzer

Operator's Initials: TH

Equipment Serial No: 540865

| Element | Composition (%) | +/- Device Error | Min (%) | Max (%) |
|---------|-----------------|---------------------|------------|------------|
| Al | 90.09 | 0.38 | 87.32 | 91.42 |
| Zn | 5.53 | 0.11 | 5.10 | 6.10 |
| Mg | 2.40 | 0.39 | 2.10 | 2.90 |
| Cu | 1.24 | 0.03 | 1.20 | 2.00 |
| Si | 0.27 | 0.03 | 0.00 | 0.40 |
| Fe | 0.23 | 0.01 | 0.00 | 0.50 |
| Cr | 0.22 | 0.02 | 0.18 | 0.28 |



Authorized Signature:

PHILIP R. HERMAN, QA MANAGER