

8W1040

PO#

*Thomas Sanchez*

**sapa:** Sapa Industrial Extrusions  
1550 KIRBY LANE  
SPANISH FORK, UT  
84660-1349

**Certified Inspection Report**

|                    |                 |
|--------------------|-----------------|
| Cert Number        | Page            |
| SAPA2648437        | Page 1 of 2     |
| Cert Creation Date | Cert Print Date |
| 30-APR-17          | 30-APR-17       |

|                    |          |                 |
|--------------------|----------|-----------------|
| Sales Order Number | Line No. | Customer P/O    |
| 1101223782         | 3        | 5400349954-0030 |

Sapa Extrusions Inc., a Subsidiary of Sapa AB

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

|                   |              |   |  |
|-------------------|--------------|---|--|
| Quantity Shipped  | Date Shipped | Item Description  | Specification  |
| 2838 LB           | 30-APR-17    | ACC-U-LINE<br>Extruded ACC-U-ROD<br>8.000 DIA +/-030      | ASTM B221 REV 14<br>AMS-QQ-A-200/8 REV A<br>ASME SB221 REV 09<br>Meets 6061-T6511H, 6061-T6511 REV |
| B/L               | Item No.     | SECT 568740<br>144.000 IN LN<br>FIN M-MILL                |  |
| 830336            | G03973584    | W/F 57.112 F 1 CS 8<br>6061/T6511H<br>Marking CONTINUOUS; |  |
| Delivery Id       | Item No. Rev |   |  |
| 4891167           |              |   |  |
| Customer Part No. |              |   |  |
| ALRD00012         |              |   |  |

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.

**Legal Statement**  
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

**Signature and Title**  
*Justin Donald*  
Justin Donald  
Quality Control Manager  
30-APR-17

Quantities per Lot / Packages

| Package Number | Lot Number | Quantity | UOM | Weight |      |
|----------------|------------|----------|-----|--------|------|
|                |            |          |     | Gross  | Net  |
| G12-PKG2963072 | 22784339   | 2        | PCS | 1425   | 1419 |
| G12-PKG2963073 | 22784339   | 2        | PCS | 1425   | 1419 |

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 |

Del.: 2405282813  
CstOr 80114  
From: TK Materials CA, Ltd.  
Cust. NEXXA INDUSTRIES LTD  
CstAr

22784339



Sapa Industrial Extrusions  
1550 KIRBY LANE  
SPANISH FORK, UT  
84660-1349

### Certified Inspection Report

|                                  |                |                                 |
|----------------------------------|----------------|---------------------------------|
| Sales Order Number<br>1101223782 | Line No.<br>3  | Customer P/O<br>540034954-0030  |
| Cert Number<br>SAPA2648437       | Page<br>2 of 2 | Cert Creation Date<br>30-APR-17 |
|                                  |                | Cert Print Date<br>30-APR-17    |

| Alloy | Ti  |      | Others Each |      | Others Total |      |
|-------|-----|------|-------------|------|--------------|------|
|       | Min | Max  | Min         | Max  | Min          | Max  |
| 6061  | --- | 0.15 | ---         | 0.05 | ---          | 0.15 |

Composition Results

| Element | Si   | Fe   | Cu   | Mn   | Mg   | Cr   | Zn   | Ti   | Others Each | Others Total |
|---------|------|------|------|------|------|------|------|------|-------------|--------------|
| 4040535 | 0.78 | 0.35 | 0.32 | 0.13 | 0.91 | 0.15 | 0.05 | 0.02 | ---         | ---          |

Mechanical Property - Test Limits

| Test Temper | Lot Number | # of Tests | UTS - L   |           | TYS - L   |           | EL 40-Long |
|-------------|------------|------------|-----------|-----------|-----------|-----------|------------|
|             |            |            | MIN Value | MAX Value | MIN Value | MAX Value |            |
| T6511H      | 22784139   | 1          | 57.8      | 57.8      | 53.1      | 53.1      | 10.9       |

Cert Notes

Products manufactured with a T6511 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 6362 alloy.  
In accordance with EN 10204 Inspection Certificate Type 3.1  
Manufactured in the United States  
Manufactured in the United States

From: TR Materials CA, Ltd.  
Cust: NEXXA INDUSTRIES LTD  
CStar  
Del: 2405282813  
CStar 80114  
Date: 05/10/2017

*Handwritten signature*